

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P622684

Luminaire Tested: **PRV-M-PA6B-740-U-T2R**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-M-PA6B-740-U-T2R  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52596 lumens  
Efficiency: N/A  
Efficacy: 143.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

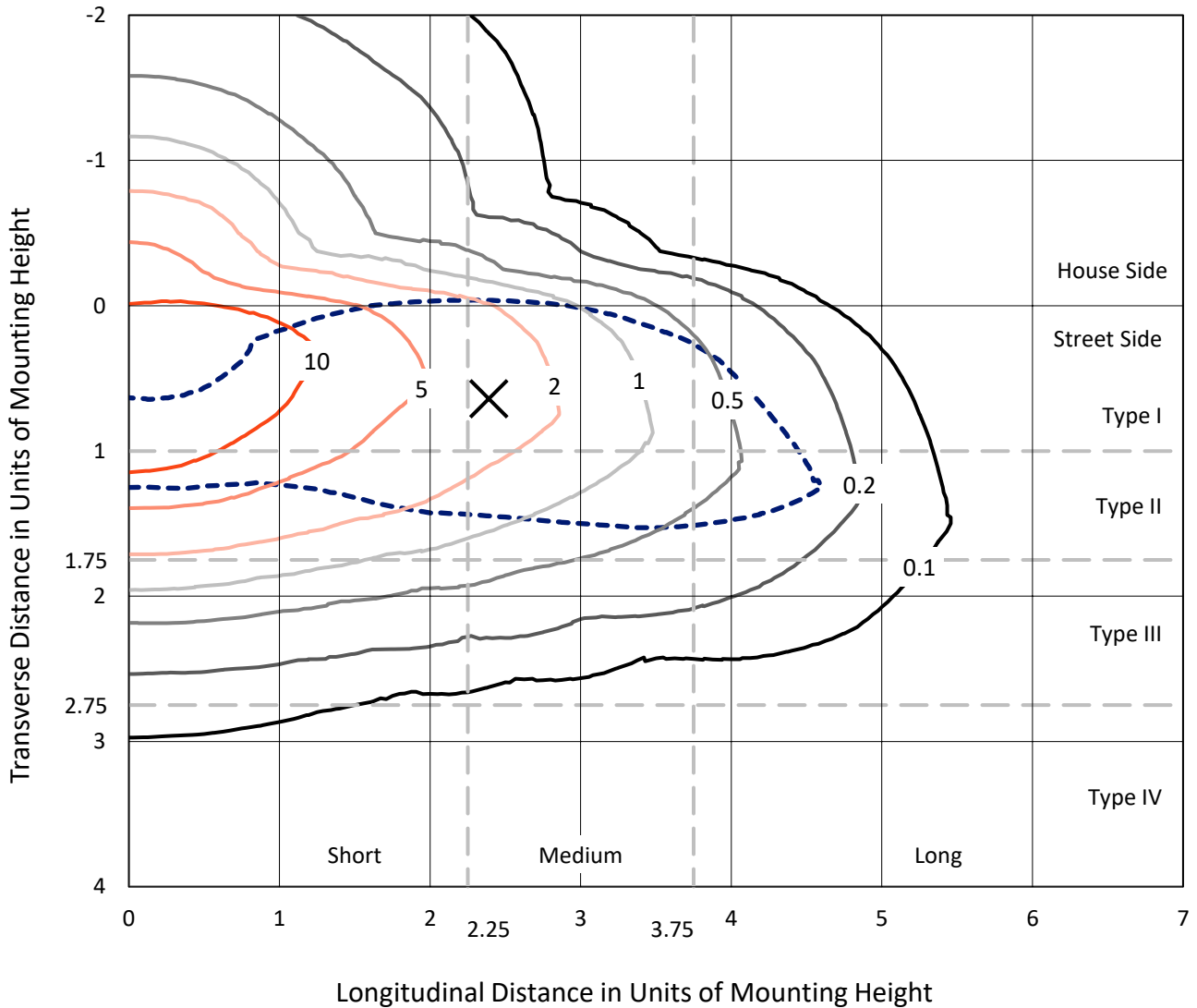
Input Watts (W): 365.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

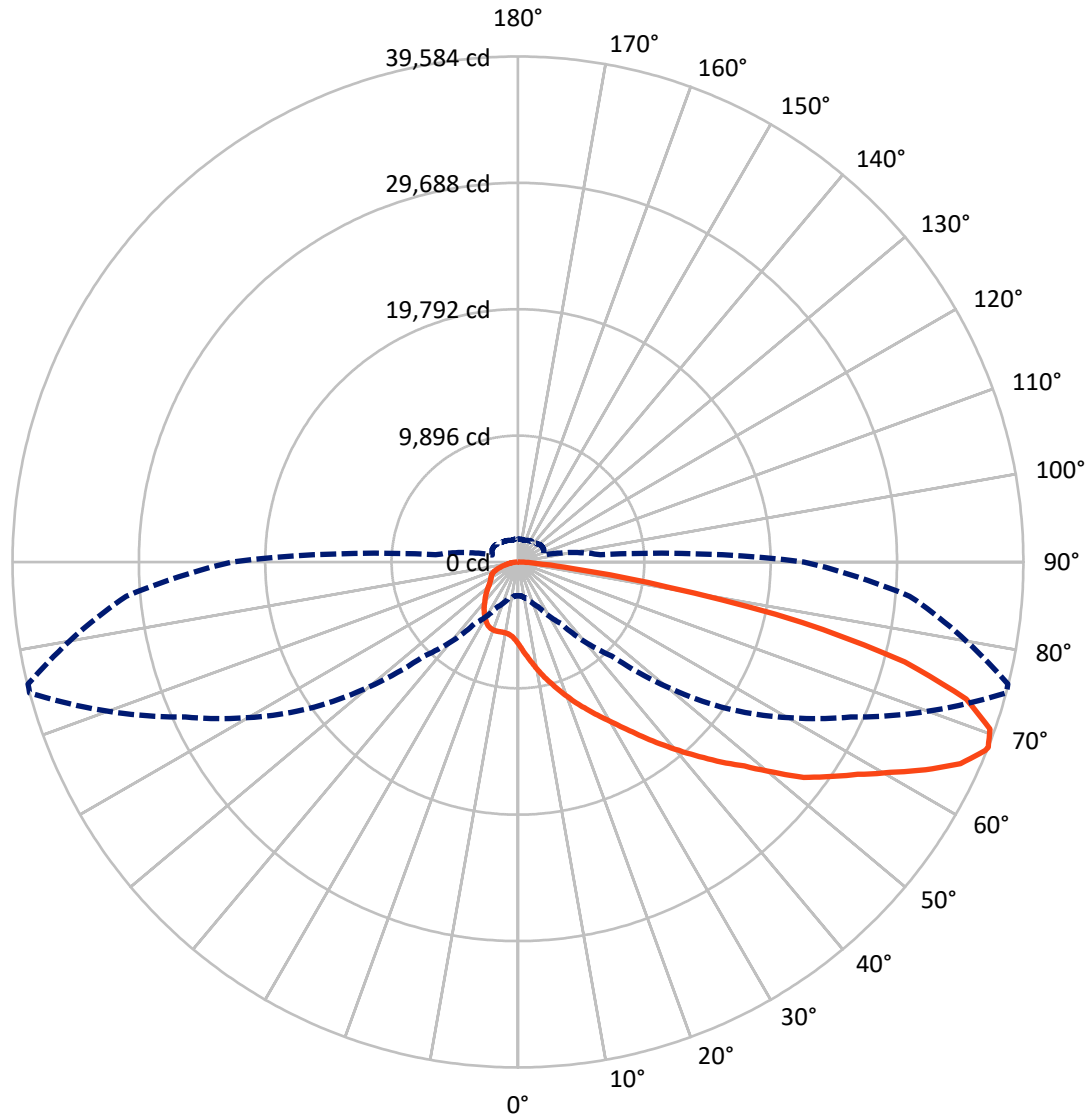
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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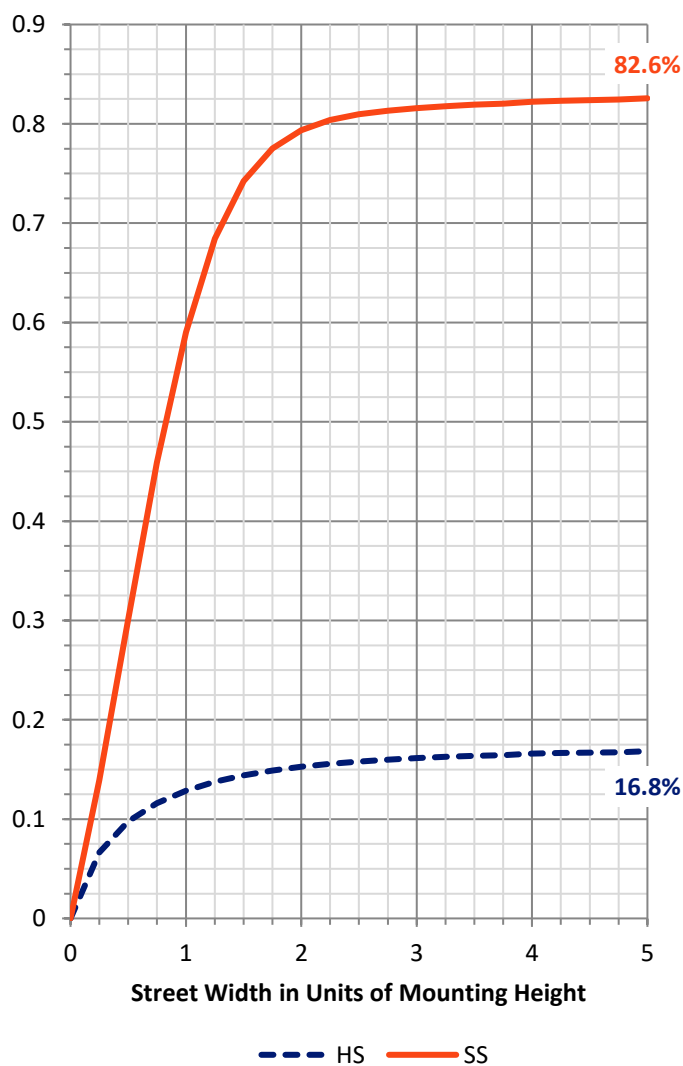
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9003.7	0.0	9003.7
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	43592.3	0.0	43592.3
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	52596.0	0.0	52596.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	675.4	1.3
10°-20°	2311.9	4.4
20°-30°	4281.0	8.1
30°-40°	6976.6	13.3
40°-50°	9834.3	18.7
50°-60°	11310.8	21.5
60°-70°	10286.0	19.6
70°-80°	5972.6	11.4
80°-90°	947.4	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	52596.0	100.0
0°-180°	52596.0	100.0

**Coefficient of Utilization**



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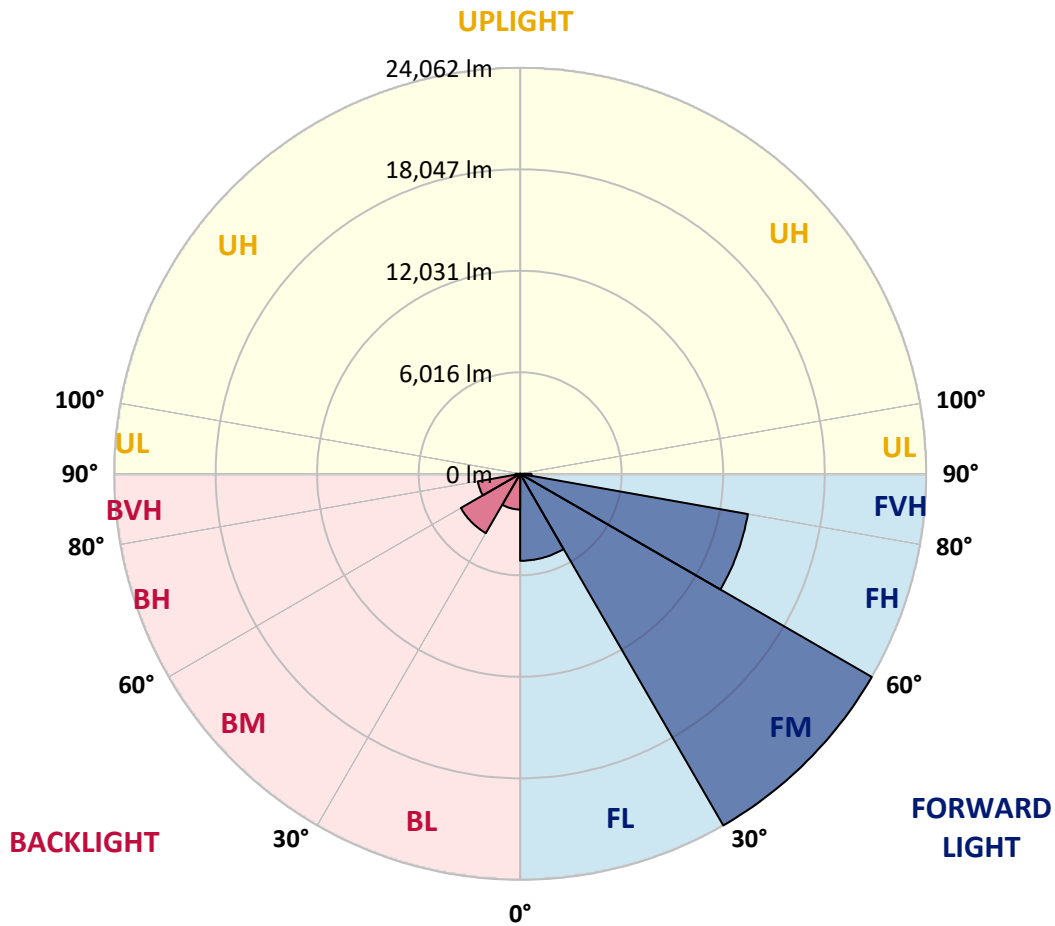
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5153.8	9.8			
FM (30°-60°)	24062.3	45.7			
FH (60°-80°)	13706.8	26.1			G5
FVH (80°-90°)	669.4	1.3			G4/750
BL (0°-30°)	2114.5	4.0	B3/2500		
BM (30°-60°)	4059.4	7.7	B3/5000		
BH (60°-80°)	2551.9	4.9	B4/5000		G4/5000
BVH (80°-90°)	278.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6426.1	6426.1	6426.1	6426.1	6426.1	6426.1	6426.1	6426.1	6426.1	6426.1	6426.1
2.5°	8175.4	8014.9	7992.2	7971.9	7824.1	7599.1	7453.7	7156.7	6901.4	6859.6	6610.6
5°	9334.5	9242.3	9180.3	9119.6	8941.4	8755.6	8397.9	7935.3	7420.9	7348.8	6843.2
7.5°	9998.1	9918.5	9889.4	9851.5	9726.4	9551.9	9218.2	8683.6	7987.1	7911.3	7142.8
10°	10613.7	10505.0	10483.5	10469.6	10386.2	10224.4	9971.6	9421.7	8612.8	8488.9	7525.8
12.5°	11153.4	11067.4	11080.1	11067.4	11042.2	10947.4	10705.9	10161.2	9257.4	9117.1	7922.7
15°	11516.2	11415.0	11504.8	11608.4	11665.3	11671.6	11449.2	10912.0	9888.1	9761.7	8370.1
17.5°	11702.0	11597.1	11732.3	11932.0	12167.1	12284.7	12192.4	11700.7	10597.2	10438.0	8851.7
20°	12079.9	11953.5	12077.4	12267.0	12596.9	12844.6	12931.8	12517.2	11332.9	11152.1	9358.5
22.5°	12891.4	12753.6	12789.0	12859.8	13116.4	13384.3	13571.4	13342.6	12083.7	11890.3	9881.8
25°	14296.9	14171.8	14007.5	13844.4	13893.7	14017.6	14155.4	14161.7	12863.6	12644.9	10424.1
27.5°	16258.6	15961.6	15669.6	15224.7	14958.0	14834.1	14778.5	14966.8	13682.6	13457.6	10952.4
30°	18229.2	17952.4	17523.9	16955.1	16330.7	15951.5	15567.2	15742.9	14568.7	14315.9	11494.7
32.5°	19934.3	19665.1	19229.0	18588.1	17848.7	17324.2	16562.0	16565.8	15593.8	15277.8	12133.0
35°	21433.4	21066.8	20625.7	19958.3	19235.3	18595.7	17731.2	17448.0	16789.5	16434.3	12905.3
37.5°	22560.9	22175.3	21724.1	21066.8	20424.7	19948.2	19014.1	18418.8	18066.1	17735.0	13755.9
40°	23314.2	22927.4	22520.4	21931.4	21396.7	21116.1	20517.0	19518.4	19398.4	19021.7	14692.6
42.5°	23655.5	23282.6	23023.5	22529.3	22131.1	22097.0	21808.8	20754.6	20831.7	20442.4	15721.4
45°	23515.2	23187.8	23062.7	22799.7	22591.2	22822.5	23110.7	22062.8	22347.2	21978.2	16818.6
47.5°	22844.0	22583.6	22670.8	22677.1	22732.8	23330.6	24140.8	23429.2	23877.9	23515.2	18154.6
50°	21443.5	21304.5	21739.3	22161.4	22533.0	23596.1	25090.1	24929.6	25859.9	25454.1	19829.4
52.5°	18382.1	18576.8	19834.4	20894.9	21947.8	23563.2	25848.5	26582.8	28023.8	27623.1	21486.5
55°	14587.6	14802.5	16393.9	18753.7	20776.1	23178.9	26269.4	27760.9	29674.6	29386.4	22959.0
57.5°	11707.0	11848.6	12976.1	15636.7	18656.4	22270.1	26493.1	28654.5	31380.9	31067.5	24647.7
60°	9315.6	9468.5	10307.8	12328.9	15732.8	20575.1	26443.8	29421.8	33470.3	33196.0	26526.0
62.5°	7029.0	6978.5	7706.5	9401.5	12560.2	17966.3	25705.6	29947.6	35821.3	35616.5	28366.3
65°	4472.0	4647.7	5249.3	6566.4	9444.5	14673.6	23908.3	29908.4	38075.0	37975.1	29890.7
67.5°	2894.5	2889.5	3290.2	4321.6	6437.5	11126.9	20807.7	29061.5	39451.5	39414.8	30789.4
68°	2653.1	2651.8	2998.2	3922.1	5892.7	10420.3	20031.6	28746.8	39584.2	39542.5	30791.9
70°	2085.6	2083.0	2236.0	2644.3	4041.0	7698.9	16301.6	26891.3	39220.2	39211.3	30108.1
72.5°	1803.7	1798.6	1844.2	1940.2	2486.3	4906.8	11384.7	23223.2	36697.2	36567.1	27783.6
75°	1620.4	1614.1	1641.9	1636.9	1803.7	3002.0	7037.9	18748.7	31283.6	30880.4	21788.6
77.5°	1432.1	1424.5	1451.1	1448.5	1526.9	2016.1	3866.5	13427.3	22769.4	21447.3	13505.7
80°	1219.7	1213.4	1245.0	1252.6	1339.8	1516.8	1998.4	8308.2	11852.4	10813.4	5665.2
82.5°	966.9	977.1	1032.7	1052.9	1142.6	1100.9	1241.2	3865.3	4267.2	3749.0	1736.7
85°	610.5	640.8	781.1	812.7	883.5	704.0	857.0	1567.3	1376.5	1242.5	458.8
87.5°	227.5	252.8	447.5	451.2	450.0	284.4	437.3	553.6	442.4	400.7	142.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6426.1	6426.1	6426.1	6426.1	6426.1	6426.1	6426.1	6426.1	6426.1	6426.1	6426.1
2.5°	6493.1	6332.6	6093.7	5873.7	5693.0	5550.2	5407.3	5350.4	5293.6	5284.7	5225.3
5°	6577.8	6292.1	5844.7	5504.7	5269.5	5106.5	5002.8	4957.3	4927.0	4915.6	4863.8
7.5°	6732.0	6314.9	5699.3	5303.7	5092.6	4995.3	4961.1	4957.3	4956.1	4958.6	4900.5
10°	6957.0	6409.7	5643.7	5239.2	5086.3	5040.8	5040.8	5053.4	5053.4	5062.3	5005.4
12.5°	7212.3	6527.2	5628.5	5249.3	5139.4	5105.2	5100.2	5109.0	5096.4	5098.9	5042.0
15°	7495.4	6667.5	5642.4	5280.9	5172.2	5120.4	5082.5	5064.8	5030.7	5015.5	4963.7
17.5°	7813.9	6831.8	5665.2	5289.8	5146.9	5055.9	4968.7	4908.1	4856.2	4849.9	4788.0
20°	8159.0	7008.8	5674.0	5245.5	5050.9	4906.8	4776.6	4686.9	4611.0	4578.2	4533.9
22.5°	8534.4	7187.0	5631.0	5116.6	4873.9	4685.6	4523.8	4406.2	4298.8	4260.9	4204.0
25°	8917.4	7350.1	5533.7	4940.9	4636.3	4418.9	4212.9	4059.9	3937.3	3886.8	3834.9
27.5°	9289.0	7477.7	5377.0	4709.6	4375.9	4123.1	3880.4	3694.6	3567.0	3525.3	3481.0
30°	9659.4	7582.6	5153.3	4459.3	4110.5	3821.0	3559.4	3379.9	3269.9	3202.9	3160.0
32.5°	10106.8	7688.8	4929.5	4201.5	3837.5	3524.0	3297.7	3158.7	3022.2	2942.6	2903.4
35°	10628.8	7807.6	4669.2	3938.6	3555.6	3271.2	3133.4	2952.7	2789.6	2728.9	2697.3
37.5°	11239.3	7922.7	4398.7	3674.4	3283.8	3110.7	2999.4	2778.2	2654.4	2619.0	2596.2
40°	11921.9	8027.6	4081.4	3414.0	3037.4	2993.1	2852.8	2675.9	2581.1	2534.3	2509.0
42.5°	12670.2	8113.5	3822.3	3141.0	2844.0	2851.5	2726.4	2624.0	2491.3	2435.7	2414.2
45°	13518.3	8243.7	3578.3	2871.8	2680.9	2680.9	2634.1	2526.7	2410.4	2376.3	2362.4
47.5°	14623.0	8424.5	3321.8	2645.5	2568.4	2526.7	2534.3	2401.6	2348.5	2315.6	2304.2
50°	15894.6	8569.8	3061.4	2488.8	2491.3	2433.2	2386.4	2324.5	2287.8	2252.4	2229.7
52.5°	17063.8	8572.3	2850.3	2401.6	2420.5	2367.4	2270.1	2252.4	2227.1	2170.3	2152.6
55°	18157.1	8528.1	2670.8	2356.1	2356.1	2297.9	2205.7	2190.5	2157.6	2102.0	2090.6
57.5°	19404.7	8478.8	2539.3	2340.9	2318.1	2209.4	2157.6	2138.7	2085.6	2052.7	2041.3
60°	20752.1	8405.5	2442.0	2343.4	2296.7	2138.7	2115.9	2086.8	2032.5	2008.5	1998.4
62.5°	22100.8	8193.1	2362.4	2352.3	2284.0	2102.0	2074.2	2036.3	1978.1	1959.2	1949.1
65°	22828.8	7634.5	2263.8	2342.2	2268.9	2080.5	2027.4	1975.6	1897.2	1889.7	1874.5
67.5°	22603.8	6708.0	2109.6	2267.6	2247.4	2051.4	1966.8	1883.3	1787.3	1818.9	1803.7
68°	22400.3	6481.7	2070.4	2242.3	2239.8	2045.1	1952.9	1860.6	1764.5	1806.2	1781.0
70°	21036.5	5518.6	1878.3	2098.2	2179.1	2018.6	1882.1	1768.3	1659.6	1738.0	1698.8
72.5°	18058.5	4253.3	1577.5	1839.1	2024.9	1973.1	1788.5	1624.2	1502.9	1507.9	1459.9
75°	13423.5	2941.3	1267.8	1485.2	1783.5	1909.9	1678.6	1467.5	1315.8	1265.2	1245.0
77.5°	7341.2	1918.7	989.7	1127.5	1440.9	1744.3	1544.6	1295.6	1122.4	1074.4	1047.8
80°	3047.5	1138.8	767.2	831.7	999.8	1489.0	1446.0	1118.6	925.2	884.8	848.1
82.5°	1008.7	697.7	568.8	563.7	653.5	1160.3	1275.4	881.0	710.4	739.4	611.8
85°	352.7	366.6	359.0	338.7	365.3	680.0	944.2	586.5	462.6	377.9	355.2
87.5°	98.6	132.7	134.0	106.2	108.7	156.7	426.0	268.0	163.1	108.7	96.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)