

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: P380999

Luminaire Tested: **PRV-PA2B-740-U-T4W**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2B-740-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19431 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

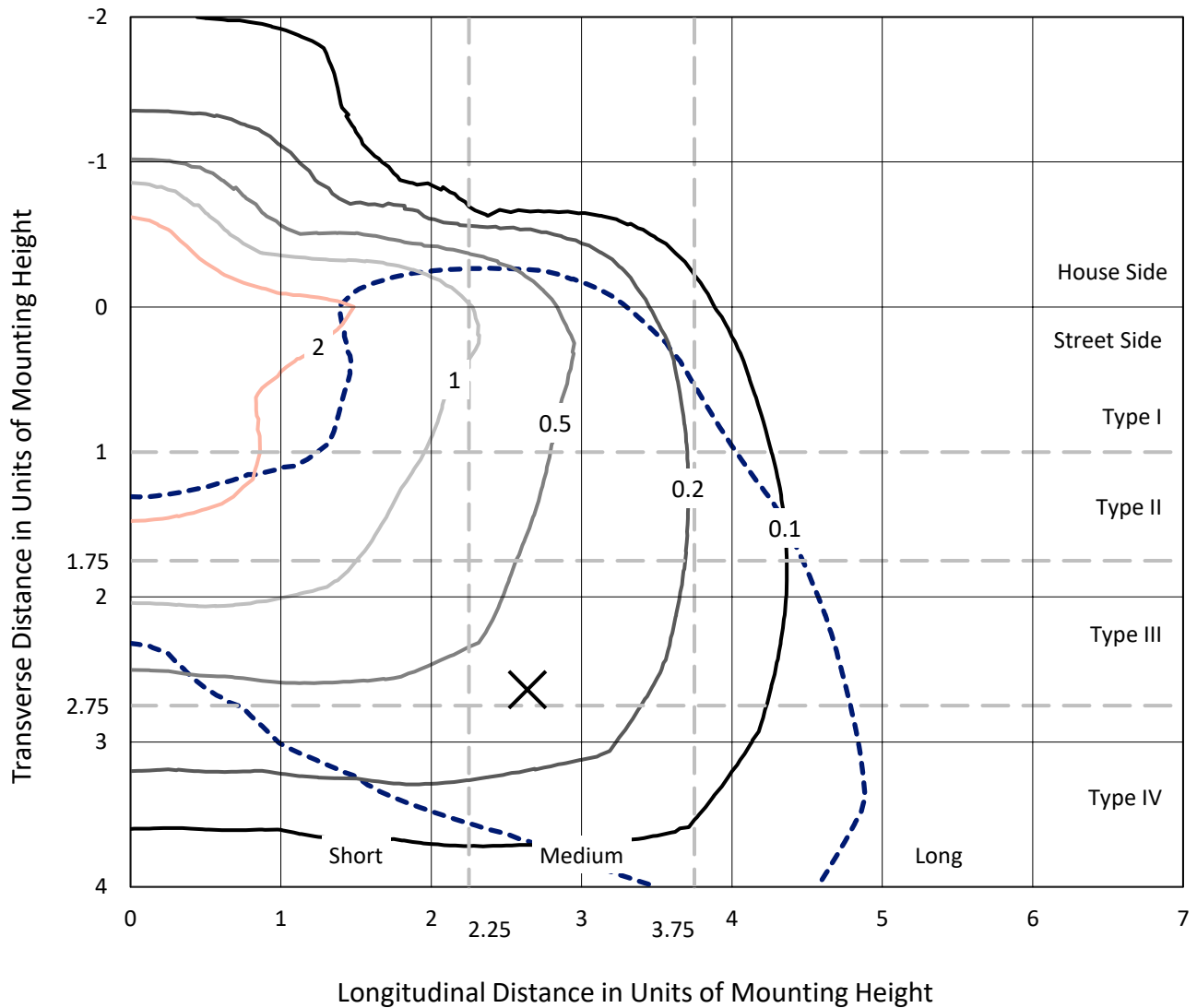
Input Watts (W): 151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

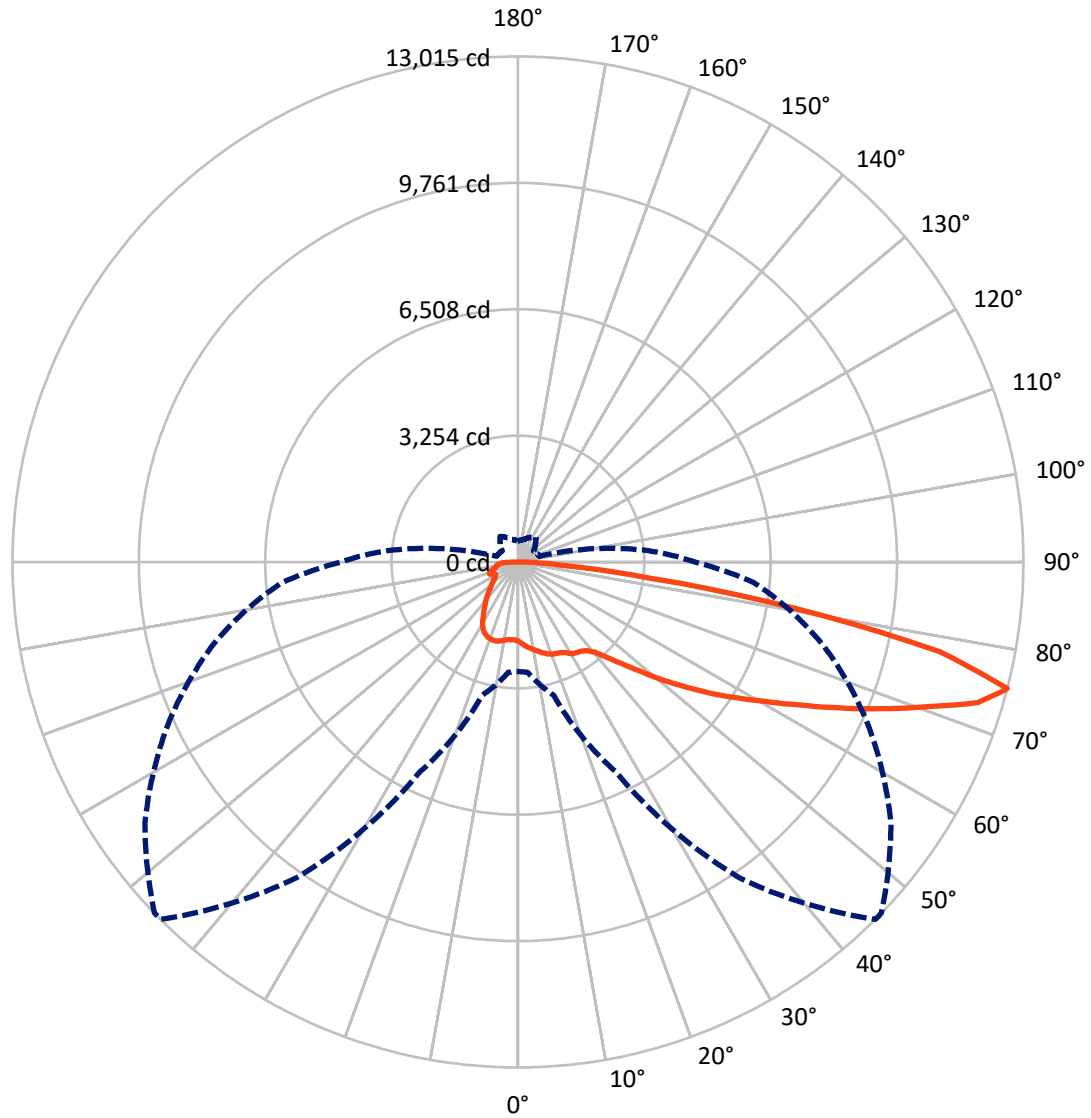
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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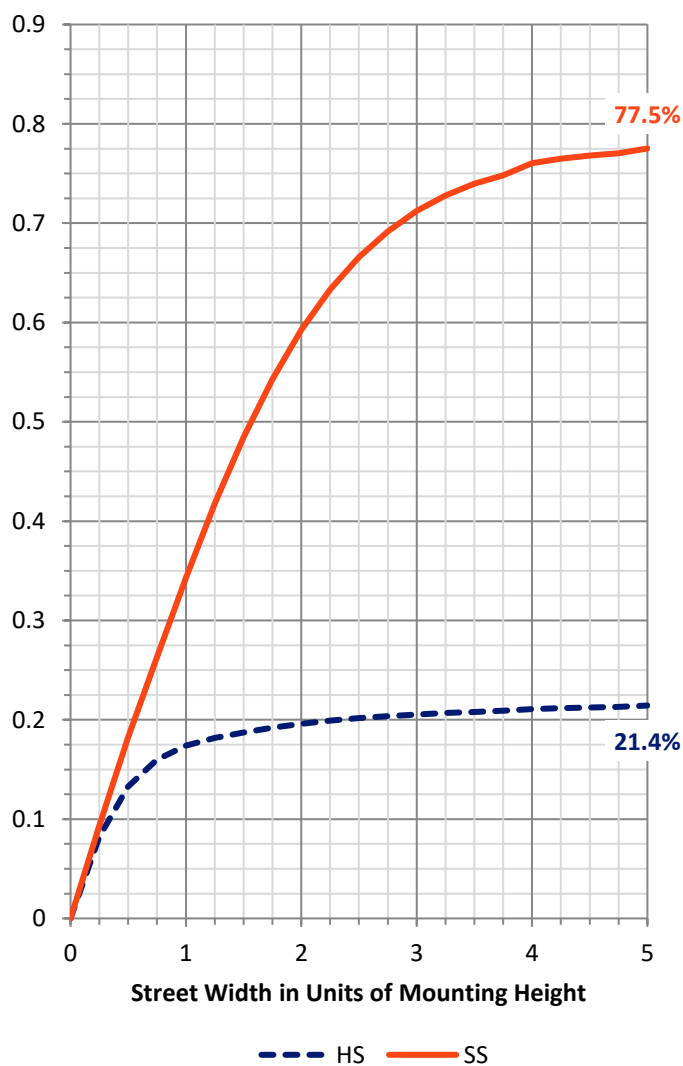
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4294.2	0.0	4294.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	15136.8	0.0	15136.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	19431.0	0.0	19431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	1.0
10°-20°	642.3	3.3
20°-30°	1095.0	5.6
30°-40°	1534.2	7.9
40°-50°	2253.9	11.6
50°-60°	3587.1	18.5
60°-70°	5102.7	26.3
70°-80°	4272.5	22.0
80°-90°	741.5	3.8
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°	19431.0	100.0
0°-180°	19431.0	100.0

Coefficient of Utilization



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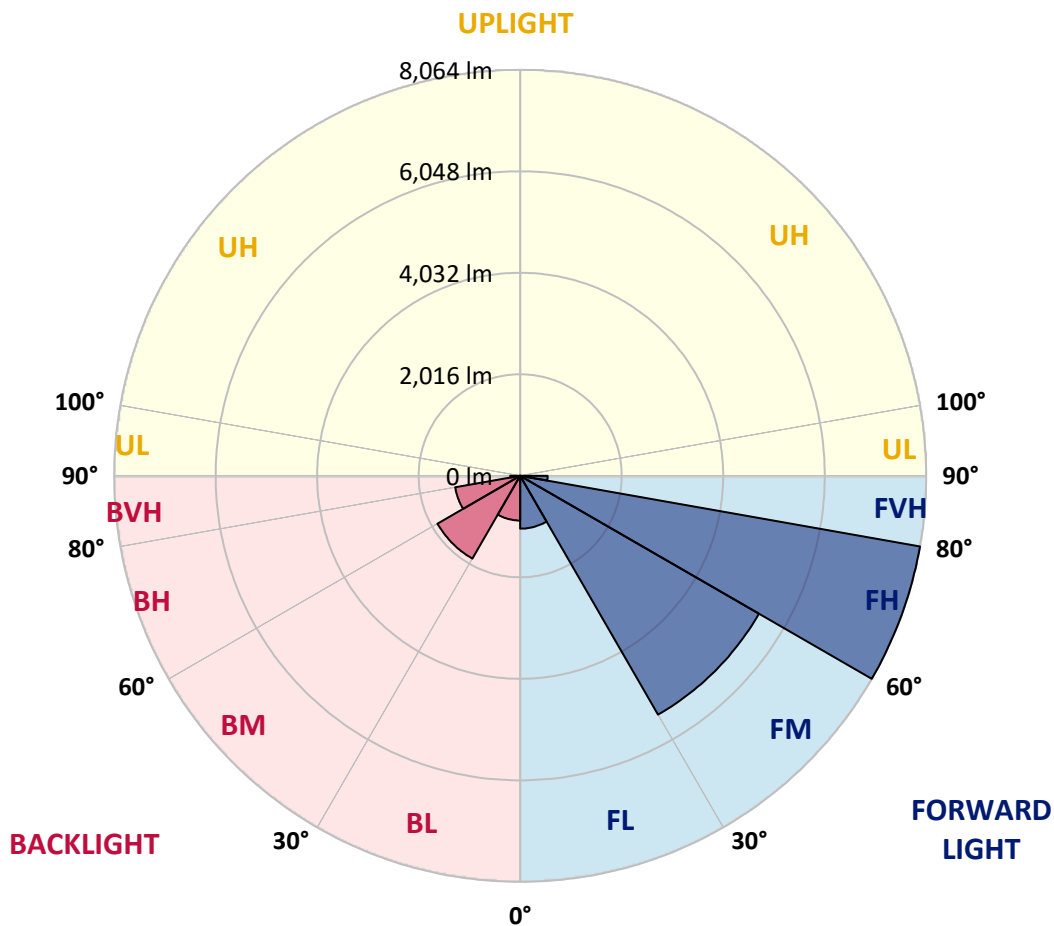
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1050.4	5.4			
FM (30°-60°)	5477.0	28.2			
FH (60°-80°)	8064.4	41.5			G4/12000
FVH (80°-90°)	545.1	2.8			G4/750
BL (0°-30°)	888.7	4.6	B2/1000		
BM (30°-60°)	1898.2	9.8	B2/2500		
BH (60°-80°)	1310.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	196.4	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2040.7	2040.7	2040.7	2040.7	2040.7	2040.7	2040.7	2040.7	2040.7	2040.7	2040.7
2.5°	2157.5	2147.1	2141.9	2141.9	2121.2	2108.2	2105.6	2087.4	2071.8	2056.3	2043.3
5°	2282.1	2274.3	2258.8	2245.8	2217.2	2180.9	2175.7	2136.7	2097.8	2061.5	2030.3
7.5°	2396.4	2380.8	2362.6	2336.7	2289.9	2240.6	2232.8	2178.3	2123.8	2069.2	2027.7
10°	2492.4	2476.9	2450.9	2414.5	2354.8	2295.1	2287.3	2230.2	2173.1	2108.2	2048.5
12.5°	2583.3	2570.3	2531.4	2482.0	2411.9	2357.4	2349.6	2300.3	2240.6	2167.9	2090.0
15°	2661.2	2648.2	2606.7	2549.6	2469.1	2427.5	2417.1	2370.4	2310.7	2232.8	2152.3
17.5°	2700.1	2700.1	2656.0	2593.7	2518.4	2487.2	2479.5	2422.3	2367.8	2292.5	2212.0
20°	2713.1	2718.3	2687.2	2611.9	2547.0	2534.0	2526.2	2479.5	2417.1	2344.4	2269.2
22.5°	2720.9	2731.3	2705.3	2619.7	2565.1	2557.3	2552.1	2521.0	2471.7	2401.6	2326.3
25°	2746.9	2746.9	2728.7	2632.6	2588.5	2585.9	2585.9	2567.7	2534.0	2474.3	2399.0
27.5°	2785.8	2783.2	2759.9	2661.2	2640.4	2648.2	2645.6	2643.0	2619.7	2559.9	2479.5
30°	2850.7	2850.7	2824.8	2718.3	2705.3	2739.1	2741.7	2746.9	2710.5	2617.1	2552.1
32.5°	2949.4	2939.0	2913.0	2775.4	2754.7	2785.8	2791.0	2788.4	2757.3	2669.0	2637.8
35°	3253.1	3229.8	3136.3	2902.6	2798.8	2817.0	2819.6	2832.5	2837.7	2767.6	2752.1
37.5°	3785.4	3754.2	3611.4	3203.8	2939.0	2894.9	2892.3	2926.0	2954.6	2892.3	2892.3
40°	4364.4	4338.4	4255.3	3723.1	3198.6	3053.2	3042.8	3074.0	3110.3	3066.2	3079.2
42.5°	4862.8	4883.6	4891.4	4273.5	3588.1	3349.2	3320.6	3276.5	3333.6	3294.7	3346.6
45°	5236.7	5226.3	5369.1	4836.9	4091.7	3720.5	3681.5	3562.1	3634.8	3632.2	3746.4
47.5°	5633.9	5615.8	5675.5	5366.5	4665.5	4174.8	4115.1	3938.6	4047.6	4122.9	4312.4
50°	6010.4	6015.6	6036.4	5784.5	5288.6	4727.8	4652.5	4416.3	4572.1	4730.4	4997.8
52.5°	6501.1	6464.8	6438.8	6272.6	5987.0	5304.2	5254.9	4984.9	5203.0	5389.9	5745.6
55°	6929.5	6906.1	6890.5	6882.8	6571.2	5940.3	5888.4	5608.0	5922.1	6054.5	6579.0
57.5°	7386.4	7373.5	7456.5	7588.9	7464.3	6586.8	6532.3	6262.2	6612.7	6706.2	7482.5
60°	7721.4	7729.1	7957.6	8295.1	8209.5	7287.8	7222.9	6984.0	7285.2	7368.3	8386.0
62.5°	7723.9	7801.8	8331.5	8936.4	9035.1	8095.2	8019.9	7760.3	7975.8	7975.8	9196.0
65°	6986.6	7074.9	8264.0	9094.8	9871.1	9055.8	8983.1	8575.5	8656.0	8547.0	9956.8
67.5°	6251.9	6355.7	7474.7	9107.8	10457.8	10084.0	9998.3	9390.8	9253.2	8978.0	10489.0
70°	5763.8	5836.4	6771.1	8939.0	10810.9	11158.8	11093.9	10164.5	9723.1	9338.8	10377.4
72.5°	4852.5	4826.5	5719.6	8136.8	11008.2	12379.1	12324.6	11005.7	10130.7	9167.5	8850.7
75°	2817.0	2848.1	3549.1	5961.1	9923.0	13015.2	13010.0	11724.8	9951.6	8097.8	6098.7
77.5°	812.6	836.0	1165.7	2619.7	6275.2	11101.7	11457.4	10722.7	8412.0	5771.5	3162.3
80°	355.7	373.9	506.3	872.4	2702.7	7251.4	7563.0	7251.4	5073.1	2648.2	1241.0
82.5°	210.3	223.3	329.7	540.0	1295.5	3450.5	3871.1	3380.4	2188.7	1124.2	514.1
85°	119.4	124.6	189.5	342.7	815.2	1207.3	1355.3	1269.6	1067.1	638.7	270.0
87.5°	54.5	57.1	93.5	161.0	456.9	407.6	423.2	560.8	617.9	389.4	135.0
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°	2040.7	2040.7	2040.7	2040.7	2040.7	2040.7	2040.7	2040.7	2040.7	2040.7	2040.7
2.5°	2038.1	2030.3	2014.7	2009.5	2001.7	2004.3	2006.9	2006.9	2009.5	2001.7	2001.7
5°	2017.3	2004.3	1988.8	1988.8	1988.8	2009.5	2027.7	2038.1	2043.3	2043.3	2038.1
7.5°	2009.5	1993.9	1975.8	1981.0	1986.2	2012.1	2045.9	2079.6	2090.0	2090.0	2084.8
10°	2025.1	2009.5	1996.5	2004.3	2017.3	2038.1	2064.0	2095.2	2121.2	2123.8	2121.2
12.5°	2061.5	2043.3	2030.3	2045.9	2061.5	2074.4	2087.4	2100.4	2134.1	2139.3	2139.3
15°	2121.2	2103.0	2087.4	2100.4	2105.6	2105.6	2105.6	2105.6	2139.3	2144.5	2144.5
17.5°	2180.9	2165.3	2149.7	2152.3	2136.7	2116.0	2108.2	2105.6	2123.8	2139.3	2141.9
20°	2238.0	2225.0	2209.4	2183.5	2144.5	2105.6	2092.6	2092.6	2103.0	2126.4	2126.4
22.5°	2300.3	2284.7	2258.8	2199.1	2134.1	2079.6	2066.6	2074.4	2087.4	2118.6	2116.0
25°	2370.4	2349.6	2305.5	2193.9	2100.4	2035.5	2038.1	2061.5	2084.8	2118.6	2118.6
27.5°	2448.3	2419.7	2331.5	2152.3	2025.1	1962.8	1986.2	2040.7	2074.4	2110.8	2116.0
30°	2534.0	2508.0	2352.2	2079.6	1903.1	1846.0	1903.1	1991.4	2043.3	2077.0	2084.8
32.5°	2637.8	2617.1	2370.4	1986.2	1744.7	1695.4	1778.5	1887.5	1970.6	2009.5	2017.3
35°	2767.6	2746.9	2393.8	1879.7	1596.7	1544.8	1620.1	1731.7	1840.8	1890.1	1905.7
37.5°	2936.4	2905.2	2414.5	1765.5	1472.1	1412.4	1448.7	1550.0	1648.6	1716.1	1734.3
40°	3151.9	3102.6	2432.7	1635.7	1363.0	1295.5	1308.5	1357.9	1415.0	1474.7	1498.1
42.5°	3455.7	3357.0	2435.3	1498.1	1251.4	1189.1	1183.9	1199.5	1199.5	1199.5	1207.3
45°	3878.9	3691.9	2440.5	1368.2	1137.2	1072.3	1056.7	1051.5	1012.6	937.3	932.1
47.5°	4413.7	4130.7	2463.9	1259.2	1017.7	960.6	939.9	919.1	846.4	768.5	752.9
50°	5099.1	4639.6	2510.6	1155.3	916.5	877.5	851.6	802.3	721.8	662.1	646.5
52.5°	5888.4	5244.5	2554.7	1046.3	841.2	815.2	784.1	724.4	638.7	602.3	597.1
55°	6794.5	5919.5	2643.0	950.2	776.3	758.1	729.6	672.4	607.5	581.6	579.0
57.5°	7721.4	6675.0	2767.6	864.6	714.0	703.6	703.6	654.3	612.7	602.3	602.3
60°	8614.5	7324.1	2671.6	784.1	656.9	662.1	711.4	698.4	667.2	680.2	688.0
62.5°	9307.7	7705.8	2167.9	719.2	615.3	662.1	789.3	789.3	752.9	747.7	747.7
65°	9603.7	7700.6	1524.0	669.8	599.7	727.0	880.1	838.6	742.5	706.2	698.4
67.5°	9528.4	7363.1	1051.5	636.1	594.5	794.5	921.7	804.8	695.8	664.6	641.3
70°	8866.3	6649.1	810.0	604.9	586.8	765.9	908.7	765.9	659.5	630.9	610.1
72.5°	7152.8	5332.8	672.4	573.8	555.6	708.8	864.6	729.6	630.9	599.7	579.0
75°	4561.7	3354.4	568.6	532.2	495.9	636.1	804.8	693.2	599.7	558.2	542.6
77.5°	2193.9	1446.1	495.9	482.9	446.6	589.4	745.1	646.5	558.2	524.4	514.1
80°	887.9	662.1	431.0	433.6	410.2	560.8	703.6	602.3	516.7	480.3	462.1
82.5°	462.1	384.3	363.5	373.9	373.9	534.8	672.4	566.0	480.3	464.7	405.0
85°	249.2	238.9	280.4	301.2	324.5	482.9	625.7	527.0	438.8	376.5	363.5
87.5°	122.0	155.8	158.4	181.7	225.9	386.8	527.0	441.4	366.1	303.8	298.6
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)