

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: P380935

Luminaire Tested: **PRV-PA2B-740-U-T3**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA2B-740-U-T3  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19667 lumens  
Efficiency: N/A  
Efficacy: 130.2 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

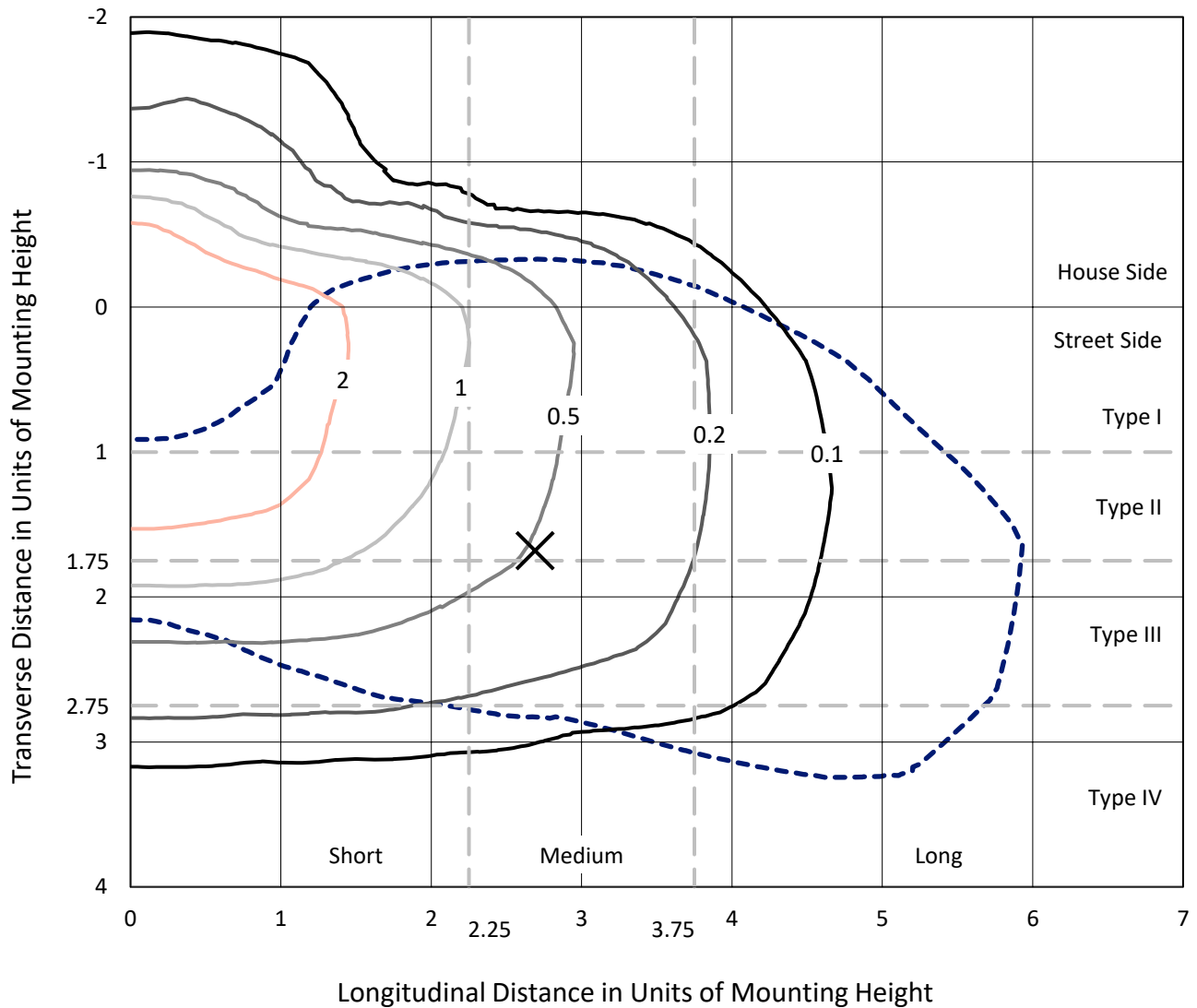
Input Watts (W): 151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

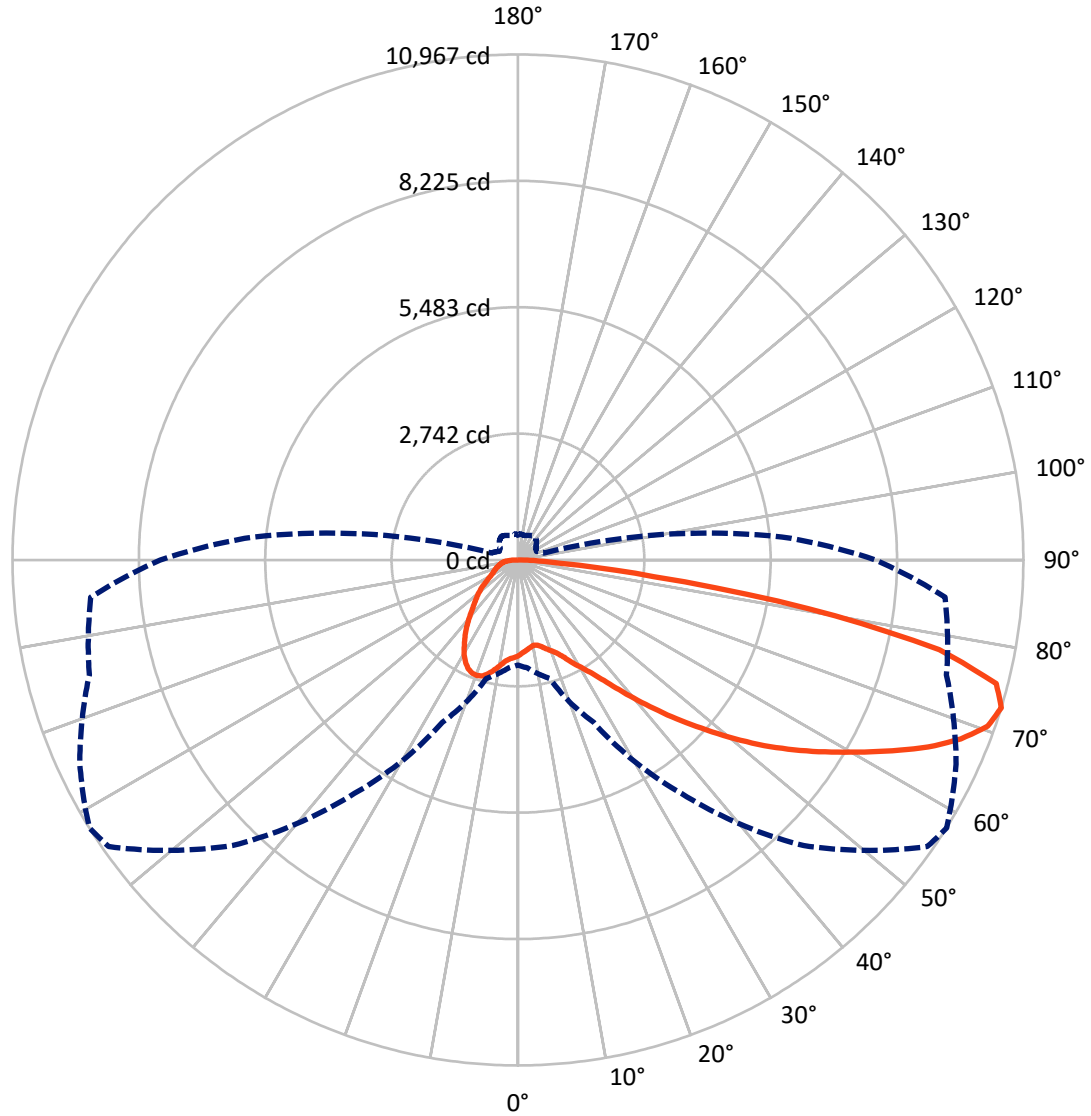
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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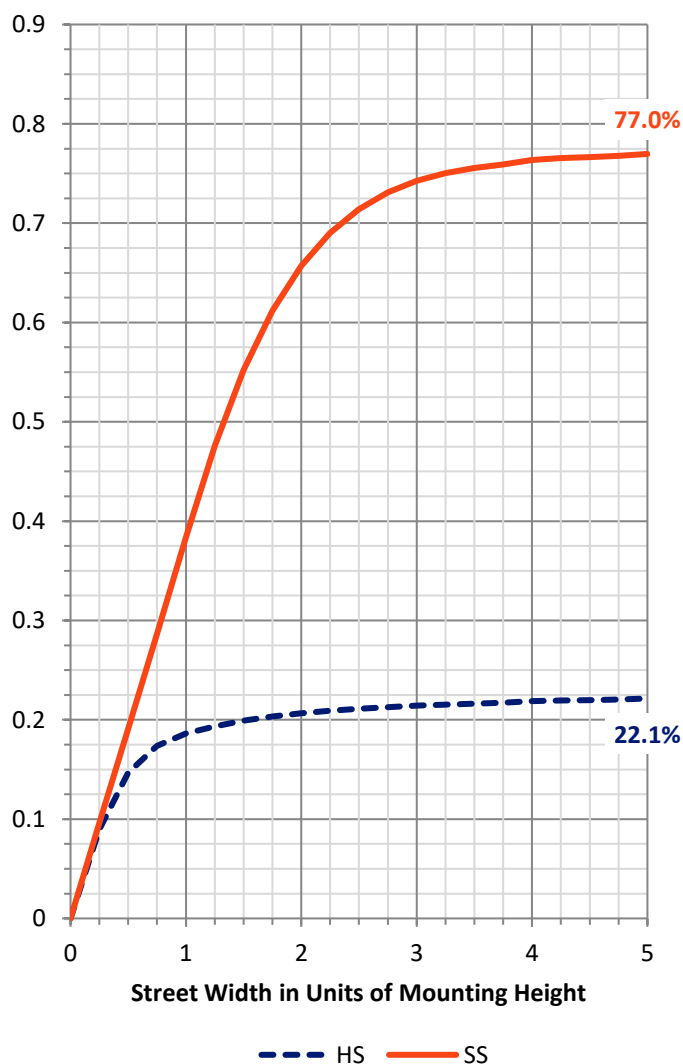
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4460.3	0.0	4460.3
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	15206.7	0.0	15206.7
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	19667.0	0.0	19667.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.8	1.0
10°-20°	634.6	3.2
20°-30°	1136.8	5.8
30°-40°	1710.1	8.7
40°-50°	2769.3	14.1
50°-60°	4168.6	21.2
60°-70°	4906.0	24.9
70°-80°	3478.8	17.7
80°-90°	662.9	3.4
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°	19667.0	100.0
0°-180°	19667.0	100.0

**Coefficient of Utilization**

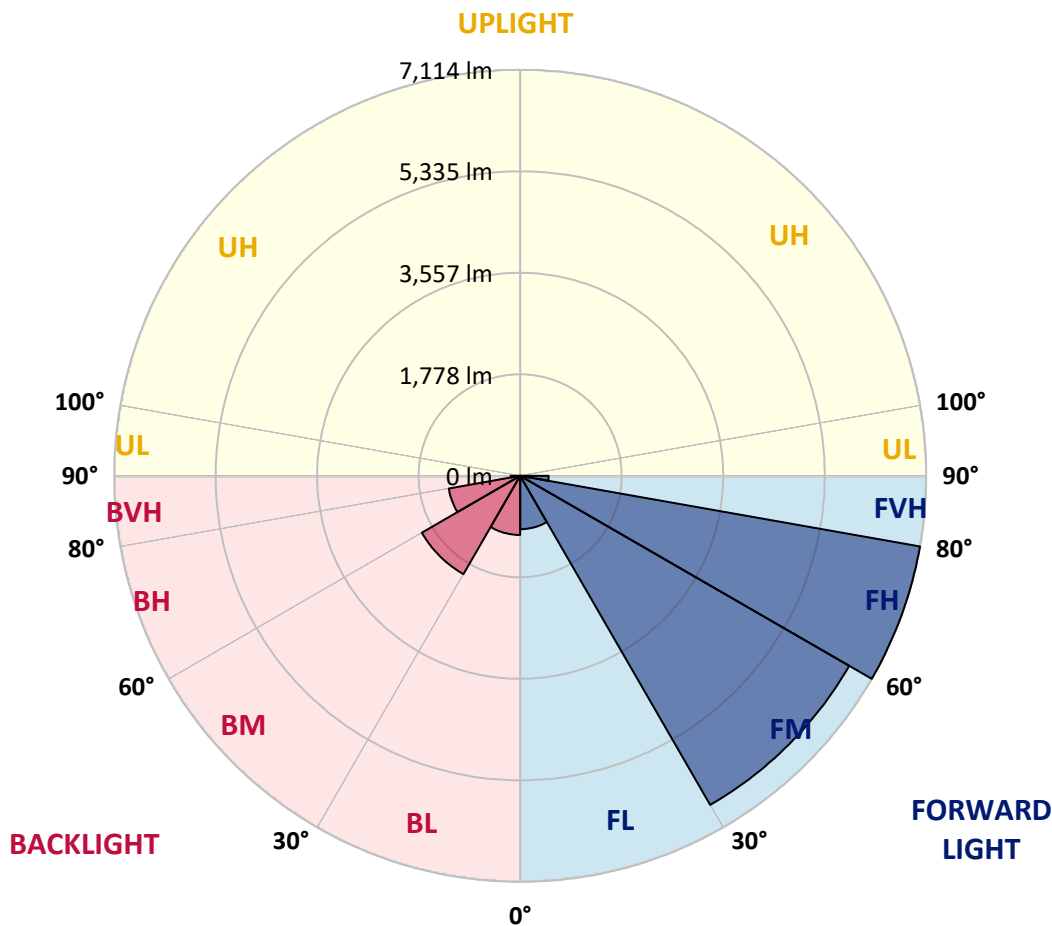


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	935.3	4.8			
FM (30°-60°)	6657.8	33.9			
FH (60°-80°)	7113.6	36.2			G3/7500
FVH (80°-90°)	500.0	2.5			G4/750
BL (0°-30°)	1036.0	5.3	B3/2500		
BM (30°-60°)	1990.1	10.1	B2/2500		
BH (60°-80°)	1271.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	162.9	0.8			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°	55°	58°	65°	75°	85°
0°	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5
2.5°	1996.6	1986.2	1988.8	1988.8	1999.2	2004.4	2006.9	2014.7	2019.9	2032.9	2051.1
5°	1903.1	1895.3	1897.9	1900.5	1918.7	1936.8	1952.4	1962.8	1978.4	1999.2	2025.1
7.5°	1835.6	1830.4	1833.0	1838.2	1853.8	1874.5	1900.5	1916.1	1939.4	1978.4	2022.5
10°	1786.3	1786.3	1788.9	1799.2	1814.8	1840.8	1861.6	1879.7	1926.5	1996.6	2064.1
12.5°	1747.3	1747.3	1755.1	1775.9	1801.8	1827.8	1877.1	1897.9	1960.2	2056.3	2136.8
15°	1744.7	1747.3	1749.9	1768.1	1796.6	1853.8	1926.5	1957.6	2032.9	2147.1	2240.6
17.5°	1786.3	1788.9	1778.5	1783.7	1817.4	1897.9	1994.0	2030.3	2126.4	2251.0	2347.1
20°	1913.5	1913.5	1882.3	1853.8	1877.1	1965.4	2074.5	2110.8	2217.2	2354.9	2450.9
22.5°	2173.1	2186.1	2113.4	2051.1	2014.7	2064.1	2162.7	2201.7	2321.1	2469.1	2565.2
25°	2487.3	2500.2	2401.6	2313.3	2245.8	2238.0	2302.9	2344.5	2443.1	2596.3	2676.8
27.5°	2791.0	2767.7	2676.8	2593.7	2508.0	2437.9	2487.3	2523.6	2637.8	2754.7	2804.0
30°	3029.9	3011.7	2923.4	2863.7	2783.2	2692.4	2663.8	2702.8	2796.2	2905.3	2931.2
32.5°	3294.7	3281.7	3193.5	3115.6	3048.1	2962.4	2900.1	2918.3	2970.2	3048.1	3063.6
35°	3632.2	3660.8	3567.3	3409.0	3333.7	3250.6	3206.4	3211.6	3250.6	3299.9	3273.9
37.5°	3987.9	4021.7	4026.9	3777.6	3676.4	3601.1	3554.3	3572.5	3619.3	3653.0	3572.5
40°	4647.4	4613.6	4478.6	4294.3	4138.5	4065.8	4000.9	3998.3	4032.1	4091.8	3946.4
42.5°	5522.3	5491.2	5218.6	4979.7	4733.1	4650.0	4522.8	4468.2	4483.8	4559.1	4356.6
45°	6361.0	6348.0	6129.9	5852.1	5556.1	5395.1	5104.3	4971.9	4958.9	5018.7	4777.2
47.5°	7106.1	7049.0	6890.6	6675.1	6644.0	6223.4	5688.5	5509.4	5447.1	5480.8	5210.8
50°	7903.2	7708.4	7490.3	7357.9	7583.8	7191.8	6277.9	6090.9	5937.8	5961.1	5680.7
52.5°	8326.4	7999.2	7856.4	7895.4	8199.1	8048.6	6919.2	6690.7	6444.0	6477.8	6148.1
55°	7962.9	7960.3	8022.6	8264.0	8687.2	8513.3	7529.3	7272.3	7002.2	7010.0	6685.5
57.5°	7464.4	7565.6	7887.6	8419.8	9292.2	9001.4	8129.0	7856.4	7609.8	7570.8	7295.6
60°	7010.0	7121.7	7589.0	8393.9	9502.5	9448.0	8700.2	8461.4	8261.5	8147.2	7936.9
62.5°	6319.4	6402.5	7064.6	8227.7	9325.9	9769.9	9279.2	9115.6	8965.1	8728.8	8627.5
65°	5506.8	5535.3	6233.7	7679.9	9105.3	9894.5	9855.6	9782.9	9637.5	9289.6	9310.4
67.5°	4626.6	4683.7	5296.5	6804.9	8622.3	9837.4	10302.2	10361.9	10190.5	9668.7	9746.5
70°	3689.4	3759.5	4224.2	5595.0	7801.9	9590.8	10715.0	10811.0	10481.3	9793.3	9827.0
72.5°	2282.2	2349.7	2661.2	3886.7	6184.4	8762.5	10842.2	10966.8	10489.1	9627.1	9302.6
75°	789.3	797.1	1041.1	1864.1	3671.2	6615.4	10426.8	10720.2	10159.4	9022.2	8095.3
77.5°	360.9	373.9	462.1	768.5	1627.9	3569.9	8609.4	9344.1	9157.2	8077.1	6231.1
80°	249.2	254.4	319.3	459.5	939.9	1256.6	5434.1	6392.1	6719.2	6254.5	3993.1
82.5°	186.9	192.1	246.6	311.6	677.6	610.1	2069.3	2970.2	3692.0	3624.4	1669.4
85°	179.1	176.5	192.1	207.7	451.8	363.5	669.8	919.1	1441.0	1233.2	420.6
87.5°	77.9	85.7	197.3	116.8	236.3	168.8	290.8	340.1	438.8	381.7	150.6
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°	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5	2074.5
2.5°	2058.9	2064.1	2079.6	2103.0	2116.0	2142.0	2160.1	2170.5	2178.3	2180.9	2180.9
5°	2040.7	2051.1	2084.8	2123.8	2160.1	2214.7	2264.0	2292.5	2313.3	2321.1	2323.7
7.5°	2045.9	2071.9	2121.2	2178.3	2225.0	2295.1	2354.9	2412.0	2458.7	2476.9	2476.9
10°	2095.2	2131.6	2199.1	2274.4	2334.1	2406.8	2469.1	2518.4	2572.9	2604.1	2609.3
12.5°	2170.5	2214.7	2302.9	2386.0	2453.5	2510.6	2567.7	2604.1	2630.1	2653.4	2658.6
15°	2277.0	2331.5	2419.8	2505.4	2565.2	2601.5	2617.1	2617.1	2614.5	2617.1	2622.3
17.5°	2383.4	2435.3	2523.6	2609.3	2637.8	2617.1	2598.9	2593.7	2591.1	2585.9	2588.5
20°	2487.3	2536.6	2611.9	2676.8	2653.4	2580.7	2557.4	2554.8	2547.0	2541.8	2536.6
22.5°	2591.1	2627.5	2689.8	2713.1	2619.7	2515.8	2487.3	2471.7	2461.3	2448.3	2435.3
25°	2710.5	2720.9	2767.7	2731.3	2536.6	2396.4	2354.9	2331.5	2321.1	2308.1	2297.7
27.5°	2822.2	2822.2	2830.0	2702.8	2414.6	2238.0	2175.7	2134.2	2131.6	2129.0	2126.4
30°	2923.4	2910.5	2884.5	2617.1	2256.2	2043.3	1949.8	1908.3	1923.9	1936.8	1939.4
32.5°	3042.9	3016.9	2944.2	2500.2	2066.7	1825.2	1711.0	1692.8	1711.0	1726.5	1716.2
35°	3229.8	3183.1	3006.5	2365.2	1884.9	1625.3	1516.2	1490.3	1485.1	1482.5	1461.7
37.5°	3497.2	3416.7	3055.9	2219.8	1705.8	1448.7	1368.3	1313.7	1264.4	1212.5	1204.7
40°	3824.4	3686.8	3089.6	2053.7	1516.2	1300.8	1215.1	1145.0	1061.9	971.0	960.6
42.5°	4182.7	3977.5	3105.2	1869.3	1350.1	1178.7	1072.3	984.0	890.5	820.4	807.5
45°	4569.5	4291.7	3092.2	1692.8	1215.1	1074.9	955.4	859.4	784.1	734.8	724.4
47.5°	4946.0	4652.6	3055.9	1552.6	1111.2	986.6	864.6	776.3	719.2	664.7	651.7
50°	5428.9	4997.9	3011.7	1443.5	997.0	898.3	807.5	714.0	649.1	623.1	617.9
52.5°	5963.7	5343.2	2959.8	1305.9	885.3	828.2	771.1	688.0	667.3	617.9	610.1
55°	6542.7	5753.4	2949.4	1132.0	786.7	778.9	734.8	711.4	716.6	617.9	604.9
57.5°	7152.8	6192.2	2972.8	958.0	706.2	734.8	750.3	732.2	724.4	630.9	604.9
60°	7788.9	6615.4	2902.7	797.1	643.9	698.4	768.5	721.8	664.7	625.7	607.5
62.5°	8406.8	6971.1	2598.9	682.8	597.2	688.0	758.1	682.8	617.9	617.9	610.1
65°	8856.0	7129.5	2032.9	599.7	566.0	675.0	739.9	656.9	604.9	623.1	612.7
67.5°	8907.9	6965.9	1365.7	534.8	540.0	651.7	698.4	633.5	592.0	638.7	623.1
70°	8588.6	6540.1	836.0	485.5	506.3	610.1	662.1	610.1	573.8	625.7	602.3
72.5°	7760.4	5745.6	589.4	444.0	469.9	571.2	628.3	589.4	547.8	566.0	542.6
75°	6366.1	4452.7	467.3	405.0	433.6	534.8	599.7	558.2	516.7	508.9	493.3
77.5°	4509.8	2853.3	376.5	373.9	394.6	490.7	560.8	521.9	480.3	464.7	454.4
80°	2593.7	1399.4	324.5	337.5	358.3	446.6	514.1	480.3	441.4	418.0	402.4
82.5°	991.8	488.1	285.6	293.4	316.7	399.8	467.3	438.8	399.8	420.6	353.1
85°	321.9	267.4	233.7	241.5	264.8	332.3	412.8	389.4	345.3	306.4	283.0
87.5°	142.8	145.4	124.6	137.6	166.2	220.7	301.2	285.6	251.8	210.3	202.5
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)