

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: P380871

Luminaire Tested: **PRV-PA2B-740-U-T2R**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380871  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA2B-740-U-T2R  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19745 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

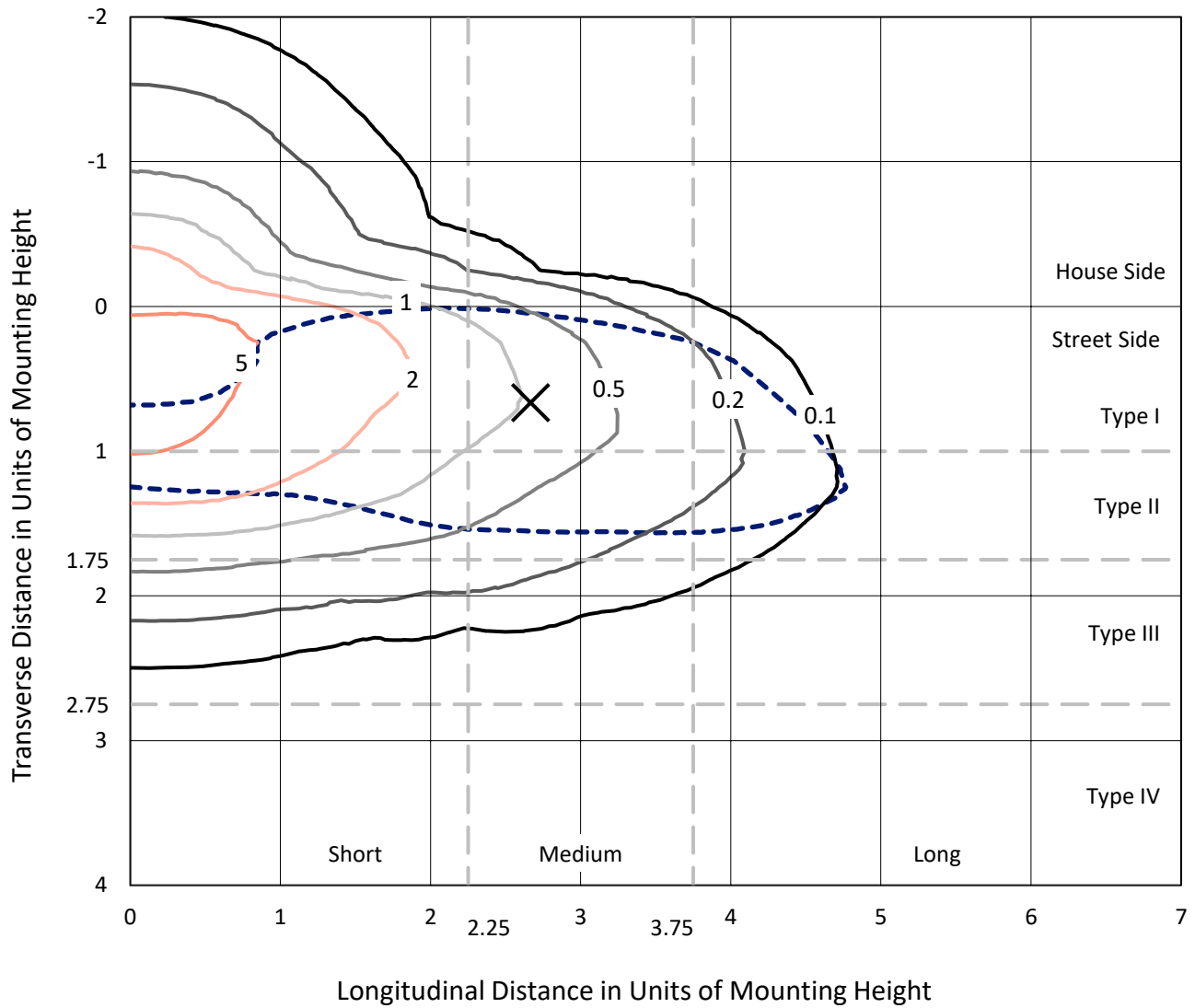
Input Watts (W): 151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

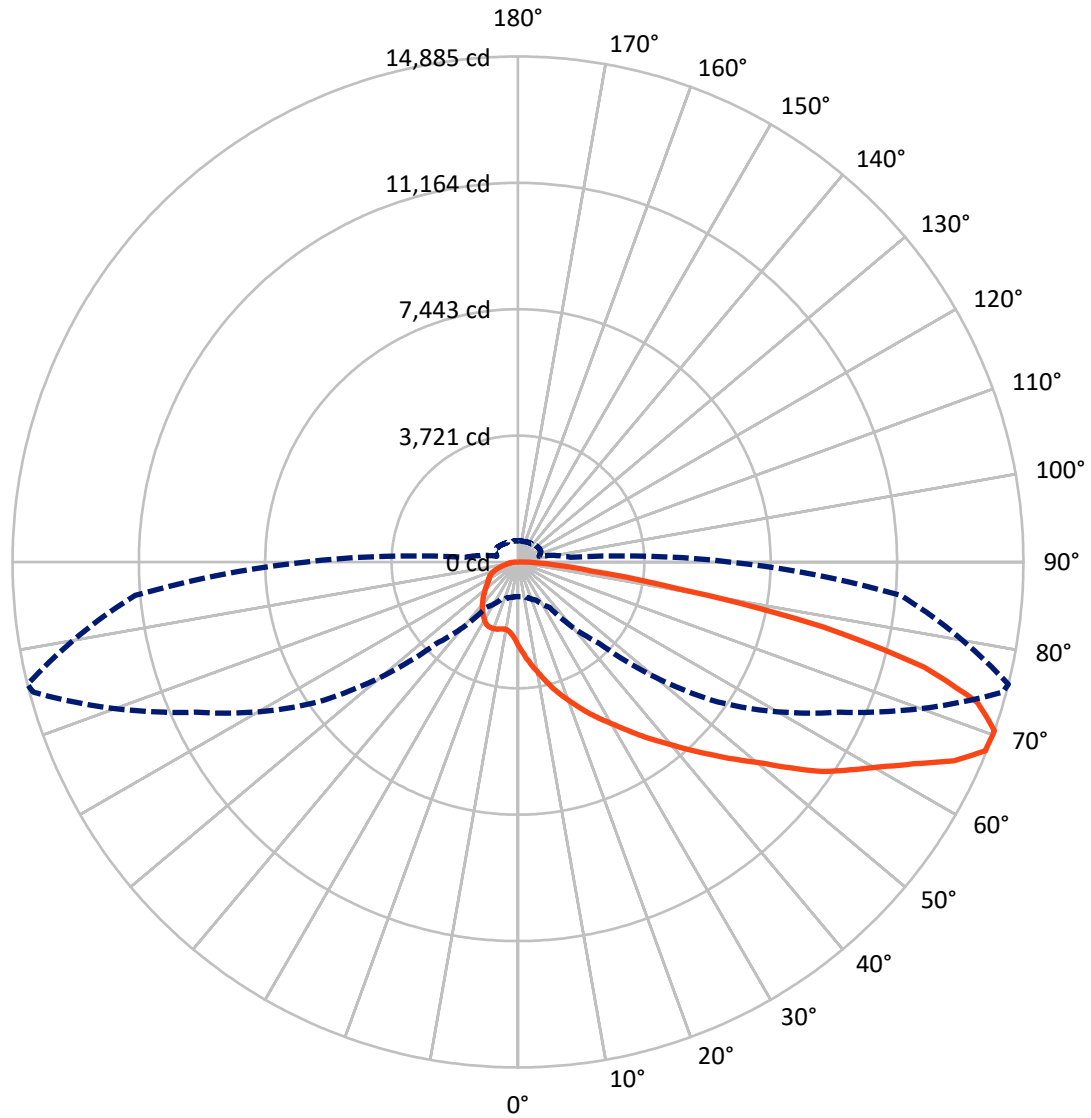
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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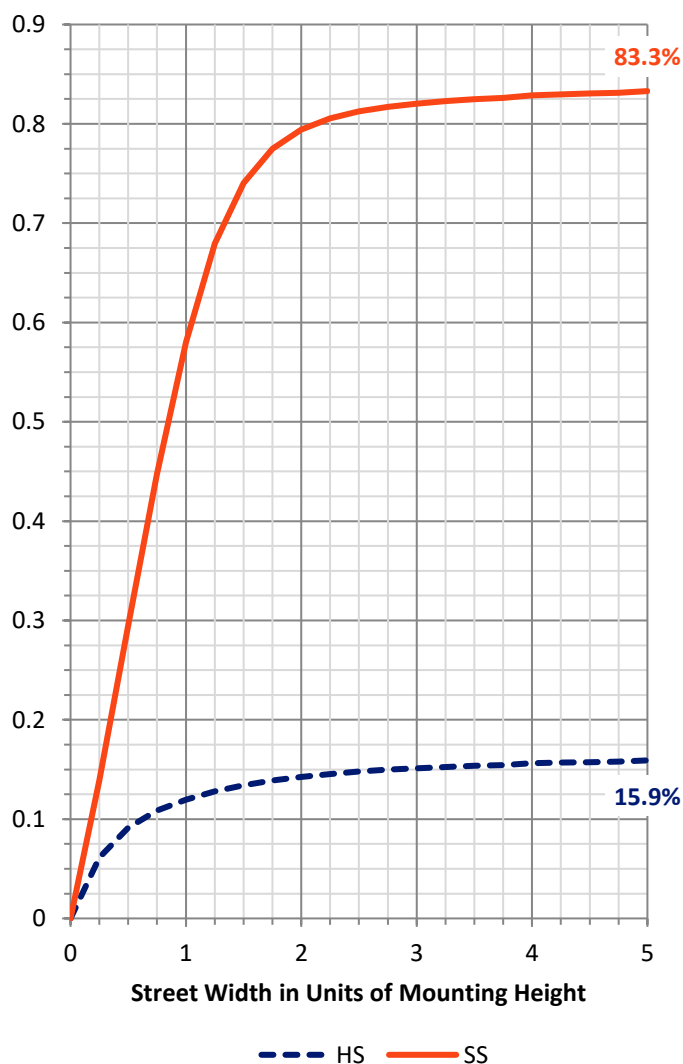
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3223.6	0.0	3223.6
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	16521.4	0.0	16521.4
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	19745.0	0.0	19745.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.6	1.3
10°-20°	872.0	4.4
20°-30°	1560.1	7.9
30°-40°	2523.6	12.8
40°-50°	3650.8	18.5
50°-60°	4178.6	21.2
60°-70°	3843.8	19.5
70°-80°	2377.0	12.0
80°-90°	482.7	2.4
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°	19745.0	100.0
0°-180°	19745.0	100.0

**Coefficient of Utilization**



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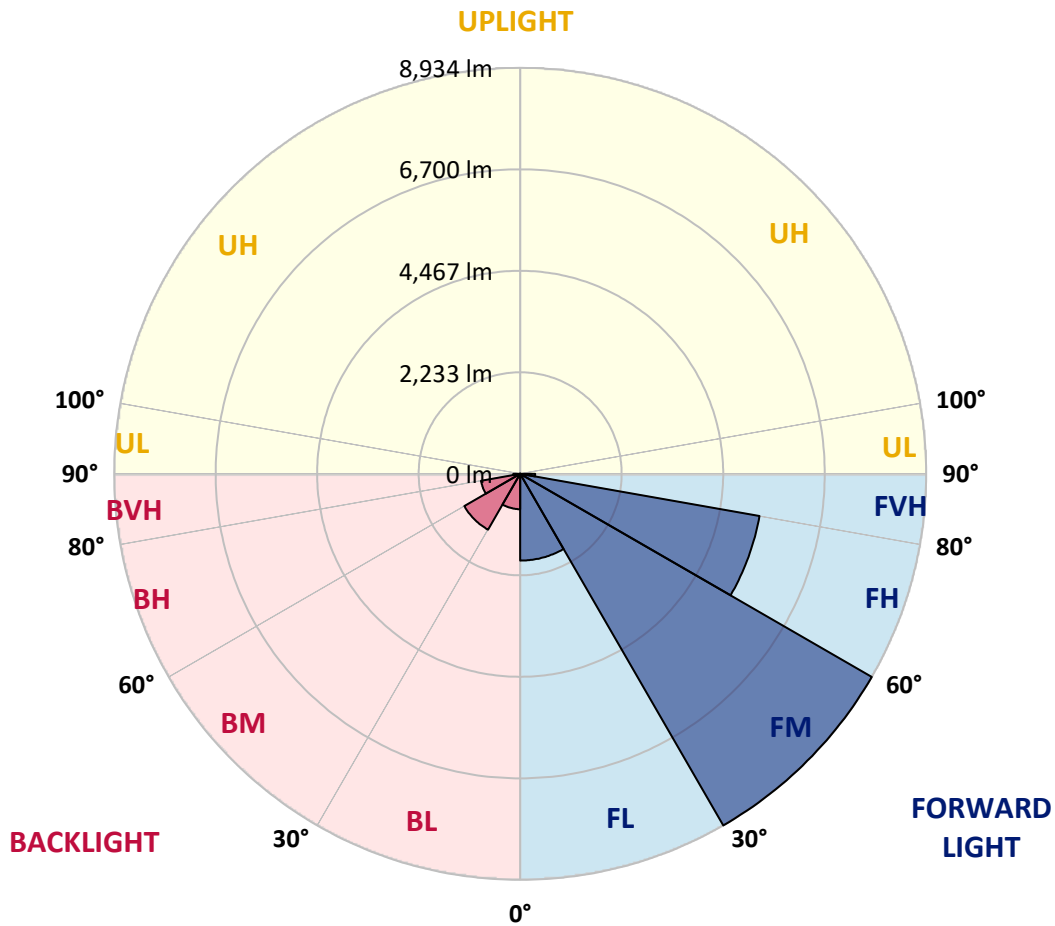
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1910.0	9.7			
FM (30°-60°)	8933.7	45.2			
FH (60°-80°)	5346.4	27.1			G3/7500
FVH (80°-90°)	331.4	1.7			G3/500
BL (0°-30°)	778.6	3.9	B2/1000		
BM (30°-60°)	1419.3	7.2	B2/2500		
BH (60°-80°)	874.3	4.4	B2/1000		G2/1000
BVH (80°-90°)	151.3	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2469.2	2469.2	2469.2	2469.2	2469.2	2469.2	2469.2	2469.2	2469.2	2469.2	2469.2
2.5°	3146.9	3123.5	3120.9	3084.5	3050.8	2959.9	2895.0	2780.8	2666.5	2663.9	2549.7
5°	3637.6	3614.2	3601.2	3557.1	3500.0	3380.5	3263.7	3087.1	2892.4	2879.4	2663.9
7.5°	3969.9	3949.2	3923.2	3905.0	3850.5	3744.0	3601.2	3390.9	3123.5	3097.5	2796.3
10°	4193.2	4180.2	4175.0	4162.1	4128.3	4042.6	3905.0	3681.7	3354.6	3326.0	2936.6
12.5°	4289.3	4284.1	4307.5	4343.8	4356.8	4323.0	4190.6	3980.3	3609.0	3577.9	3105.3
15°	4177.6	4182.8	4242.6	4367.2	4499.6	4572.3	4494.4	4289.3	3897.2	3853.1	3302.6
17.5°	4125.7	4133.5	4175.0	4294.5	4481.4	4707.3	4743.7	4582.7	4175.0	4112.7	3510.4
20°	4216.6	4227.0	4258.1	4351.6	4481.4	4722.9	4912.4	4863.1	4447.7	4382.8	3710.3
22.5°	4447.7	4460.7	4458.1	4517.8	4606.1	4772.2	5005.9	5127.9	4733.3	4660.6	3918.0
25°	4941.0	4930.6	4842.3	4813.8	4837.1	4943.6	5130.5	5382.4	5031.9	4959.2	4136.1
27.5°	5610.9	5597.9	5436.9	5291.5	5161.7	5208.4	5307.1	5587.5	5335.6	5252.6	4343.8
30°	6327.5	6311.9	6125.0	5888.7	5600.5	5533.0	5520.0	5766.7	5642.0	5553.7	4564.5
32.5°	7025.9	7012.9	6813.0	6537.8	6140.5	5938.0	5813.4	5966.6	5989.9	5904.3	4806.0
35°	7662.0	7662.0	7490.7	7163.5	6714.3	6408.0	6202.9	6213.2	6389.8	6291.1	5081.2
37.5°	8228.1	8225.5	8038.5	7716.6	7285.6	6935.0	6680.6	6511.8	6771.5	6685.8	5369.4
40°	8677.2	8659.1	8521.5	8241.0	7807.4	7459.5	7202.5	6862.3	7197.3	7119.4	5675.8
42.5°	9004.4	8994.0	8900.5	8656.5	8243.6	7916.5	7739.9	7303.7	7680.2	7602.3	6034.1
45°	9131.6	9152.4	9152.4	8921.3	8594.2	8295.6	8217.7	7789.3	8202.1	8124.2	6418.4
47.5°	8926.5	8981.0	9092.7	9108.2	8820.0	8617.5	8643.5	8277.4	8739.6	8698.0	6839.0
50°	8285.2	8386.4	8630.5	9071.9	8910.9	8864.2	9007.0	8775.9	9316.0	9303.0	7350.5
52.5°	6631.3	6877.9	7638.7	8430.6	8848.6	8978.4	9367.9	9336.7	10058.5	10079.3	8017.7
55°	5086.4	5179.9	6060.0	7407.6	8466.9	8942.1	9609.4	9884.6	10863.4	10889.4	8630.5
57.5°	4112.7	4175.0	4655.4	6060.0	7597.1	8744.7	9798.9	10203.9	11481.4	11548.9	9175.8
60°	3258.5	3349.4	3671.3	4637.2	6379.4	8269.6	9931.3	10559.6	12146.1	12247.3	9827.5
62.5°	2422.5	2466.6	2770.4	3435.1	5050.0	7415.4	9861.2	10946.5	12961.3	13083.4	10611.6
65°	1724.0	1763.0	1978.5	2443.2	3733.7	6260.0	9453.6	11234.7	13984.3	14109.0	11400.9
67.5°	1290.4	1306.0	1428.0	1708.4	2515.9	4863.1	8627.9	11185.4	14732.1	14843.7	11717.6
70°	1020.4	1025.6	1085.3	1235.9	1635.7	3385.7	7181.7	10461.0	14786.6	14885.3	11317.8
72.5°	846.4	843.8	877.6	950.3	1139.8	2142.0	5320.1	9116.0	14085.6	14153.1	10201.3
75°	698.4	703.6	727.0	768.5	869.8	1412.5	3448.0	7272.6	12426.5	12353.8	8560.4
77.5°	586.8	584.2	594.6	630.9	703.6	1015.2	2020.0	5255.2	9209.5	9173.2	5618.7
80°	472.5	477.7	493.3	524.5	592.0	773.7	1194.4	3279.3	4941.0	4808.6	2684.7
82.5°	316.8	366.1	397.3	433.6	511.5	571.2	758.2	1666.9	2209.6	2175.8	1217.7
85°	150.6	199.9	296.0	337.5	415.4	358.3	514.1	794.5	1106.1	1093.1	438.8
87.5°	31.2	31.2	158.4	189.5	257.0	153.2	285.6	345.3	534.9	501.1	179.2
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°	2469.2	2469.2	2469.2	2469.2	2469.2	2469.2	2469.2	2469.2	2469.2	2469.2	2469.2
2.5°	2482.2	2412.1	2271.9	2160.2	2046.0	1981.1	1900.6	1861.6	1853.8	1833.1	1848.7
5°	2526.3	2388.7	2123.9	1949.9	1833.1	1776.0	1747.4	1737.0	1734.4	1729.2	1729.2
7.5°	2586.0	2375.7	2030.4	1853.8	1778.5	1760.4	1768.2	1783.7	1786.3	1791.5	1788.9
10°	2658.7	2378.3	1978.5	1830.5	1794.1	1796.7	1822.7	1843.5	1853.8	1861.6	1859.0
12.5°	2760.0	2409.5	1970.7	1846.1	1830.5	1840.9	1866.8	1887.6	1898.0	1900.6	1900.6
15°	2892.4	2474.4	1988.9	1879.8	1866.8	1874.6	1890.2	1898.0	1900.6	1898.0	1898.0
17.5°	3037.8	2552.3	2014.8	1900.6	1879.8	1872.0	1866.8	1859.0	1843.5	1833.1	1833.1
20°	3178.0	2622.4	2027.8	1898.0	1861.6	1830.5	1799.3	1760.4	1734.4	1713.6	1713.6
22.5°	3318.2	2687.3	2027.8	1869.4	1812.3	1752.6	1687.7	1625.4	1586.4	1560.4	1560.4
25°	3466.2	2749.6	2012.2	1820.1	1734.4	1648.7	1560.4	1482.6	1443.6	1417.6	1412.5
27.5°	3590.9	2786.0	1970.7	1750.0	1638.3	1529.3	1428.0	1347.5	1319.0	1295.6	1295.6
30°	3723.3	2809.3	1892.8	1659.1	1529.3	1404.7	1300.8	1235.9	1204.7	1171.0	1168.4
32.5°	3871.3	2824.9	1804.5	1563.0	1417.6	1285.2	1197.0	1145.0	1077.5	1041.2	1036.0
35°	4042.6	2845.7	1711.0	1454.0	1306.0	1186.6	1134.6	1049.0	984.0	952.9	950.3
37.5°	4224.4	2861.3	1609.8	1357.9	1204.7	1121.7	1069.7	968.5	911.3	864.6	859.4
40°	4416.5	2861.3	1505.9	1264.5	1124.3	1093.1	994.4	903.6	807.5	784.1	778.9
42.5°	4629.4	2856.1	1402.1	1173.6	1049.0	1028.2	950.3	854.2	804.9	784.1	778.9
45°	4855.3	2837.9	1303.4	1069.7	971.1	929.5	869.8	843.8	823.1	823.1	823.1
47.5°	5112.4	2822.3	1191.8	976.3	913.9	867.2	823.1	807.5	804.9	812.7	820.5
50°	5442.1	2817.1	1098.3	908.7	869.8	815.3	810.1	797.1	799.7	799.7	799.7
52.5°	5841.9	2770.4	1010.0	859.4	825.7	760.8	776.3	789.3	794.5	791.9	789.3
55°	6135.3	2687.3	934.7	825.7	794.5	740.0	760.8	781.5	786.7	778.9	778.9
57.5°	6400.2	2570.5	875.0	799.7	773.7	727.0	750.4	771.1	765.9	763.3	760.8
60°	6704.0	2458.8	828.3	786.7	753.0	721.8	742.6	755.6	747.8	742.6	740.0
62.5°	7033.7	2349.8	794.5	786.7	737.4	719.2	734.8	740.0	724.4	719.2	719.2
65°	7186.9	2178.4	758.2	786.7	729.6	714.0	719.2	714.0	698.4	698.4	695.8
67.5°	6935.0	1895.4	711.4	776.3	740.0	706.2	695.8	688.1	669.9	669.9	664.7
70°	6239.2	1557.9	643.9	742.6	742.6	703.6	664.7	646.5	625.7	633.5	623.1
72.5°	5330.5	1235.9	560.8	685.5	727.0	701.0	630.9	602.4	584.2	592.0	576.4
75°	4317.8	958.1	462.2	594.6	688.1	688.1	597.2	558.2	537.5	537.5	519.3
77.5°	2752.2	708.8	376.5	493.3	617.9	669.9	568.6	508.9	477.7	470.0	457.0
80°	1363.1	498.5	309.0	392.1	527.1	628.3	547.8	451.8	407.6	392.1	368.7
82.5°	724.4	345.3	246.7	306.4	420.6	566.0	521.9	389.5	334.9	311.6	285.6
85°	324.6	212.9	197.3	233.7	319.4	464.8	470.0	319.4	257.0	306.4	225.9
87.5°	119.4	96.1	96.1	119.4	184.3	194.7	332.3	205.1	163.6	111.6	88.3
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)