

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: P380863

Luminaire Tested: **PRV-PA2B-730-U-T2R**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380863  
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-730-U-T2R  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 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: 17982 lumens  
Efficiency: N/A  
Efficacy: 119.1 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

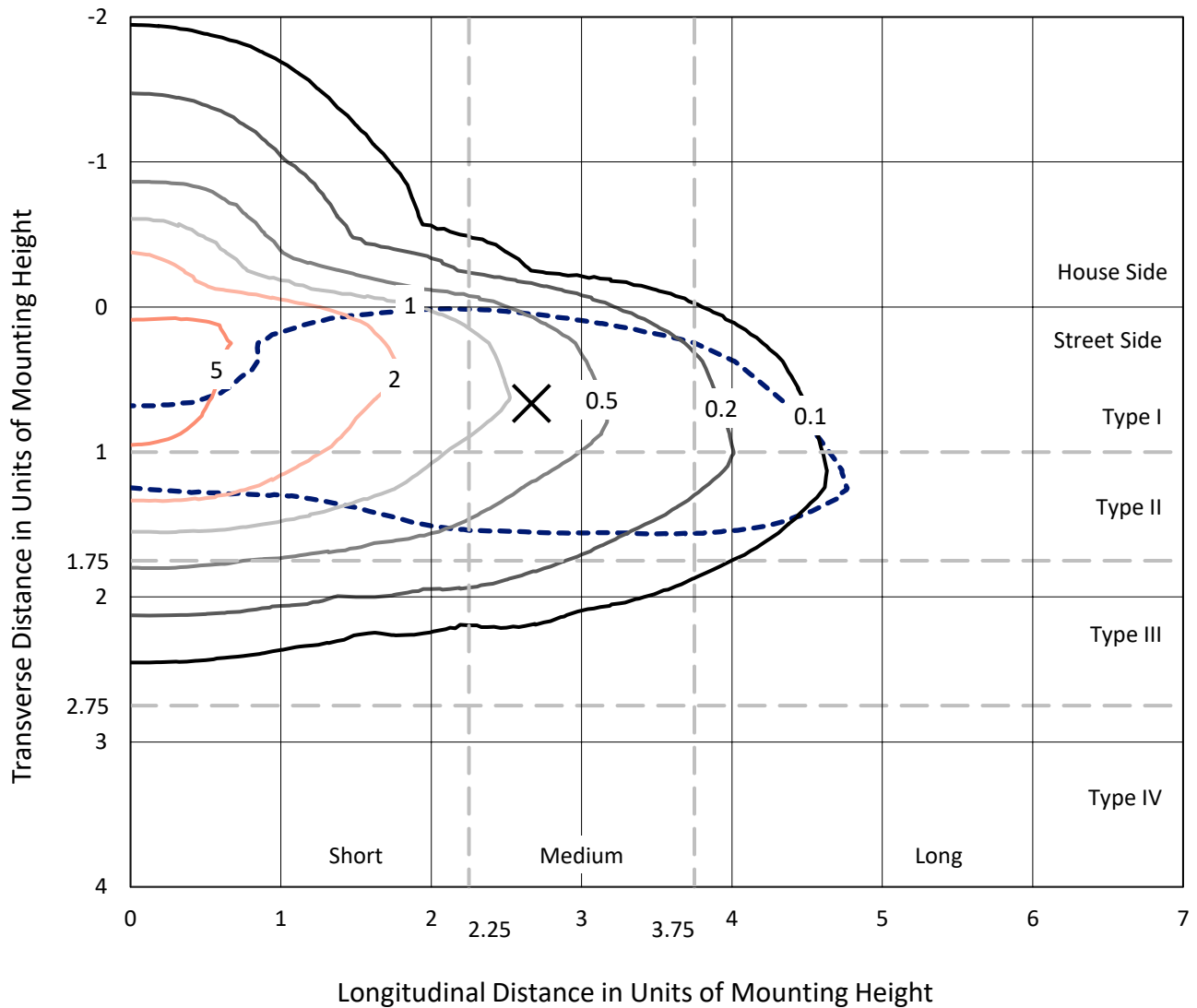
Input Watts (W): 151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

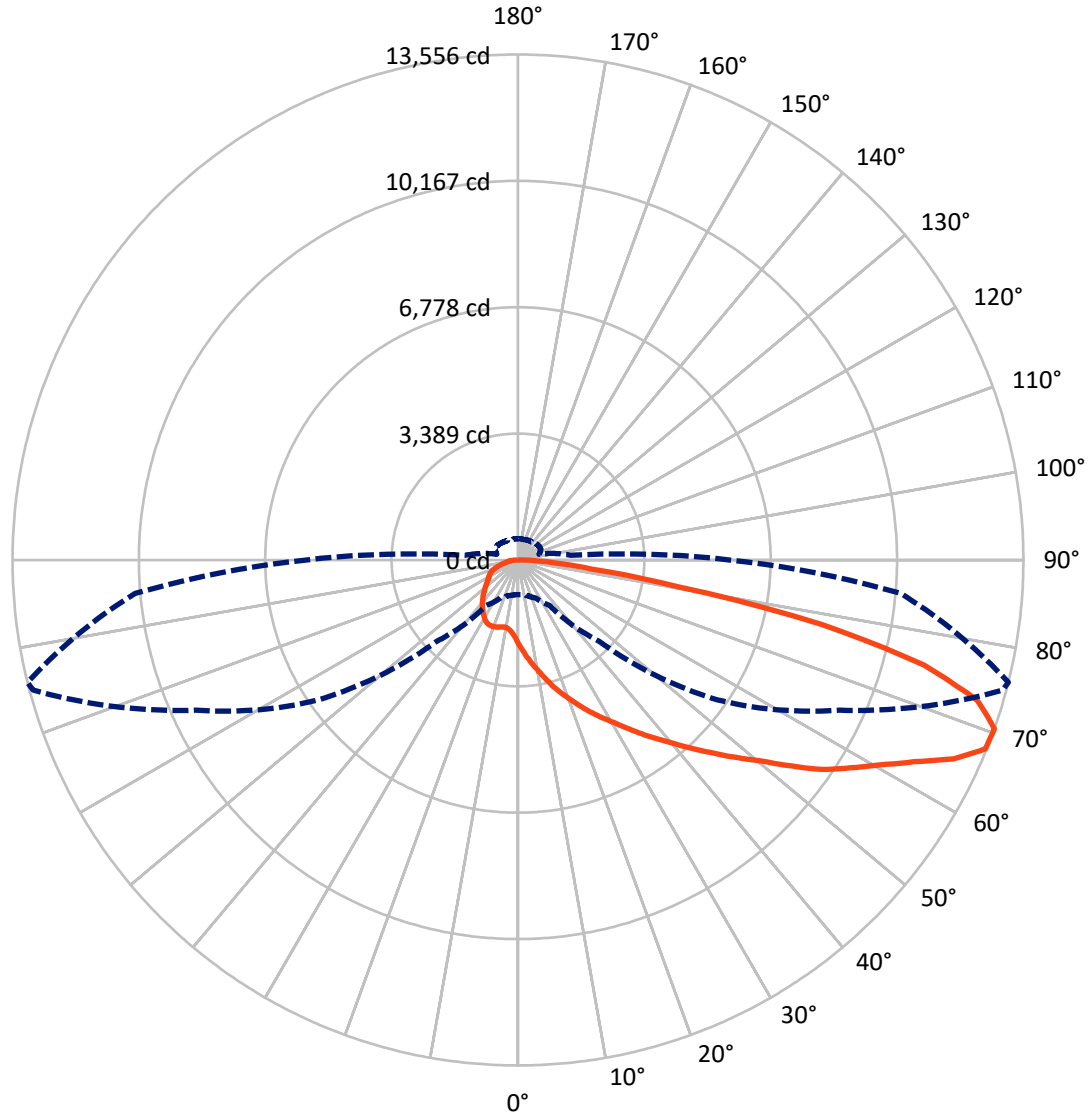
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2935.8	0.0	2935.8
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	15046.3	0.0	15046.3
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	17982.0	0.0	17982.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.7	1.3
10°-20°	794.1	4.4
20°-30°	1420.8	7.9
30°-40°	2298.3	12.8
40°-50°	3324.8	18.5
50°-60°	3805.5	21.2
60°-70°	3500.6	19.5
70°-80°	2164.7	12.0
80°-90°	439.6	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°	17982.0	100.0
0°-180°	17982.0	100.0

**Coefficient of Utilization**



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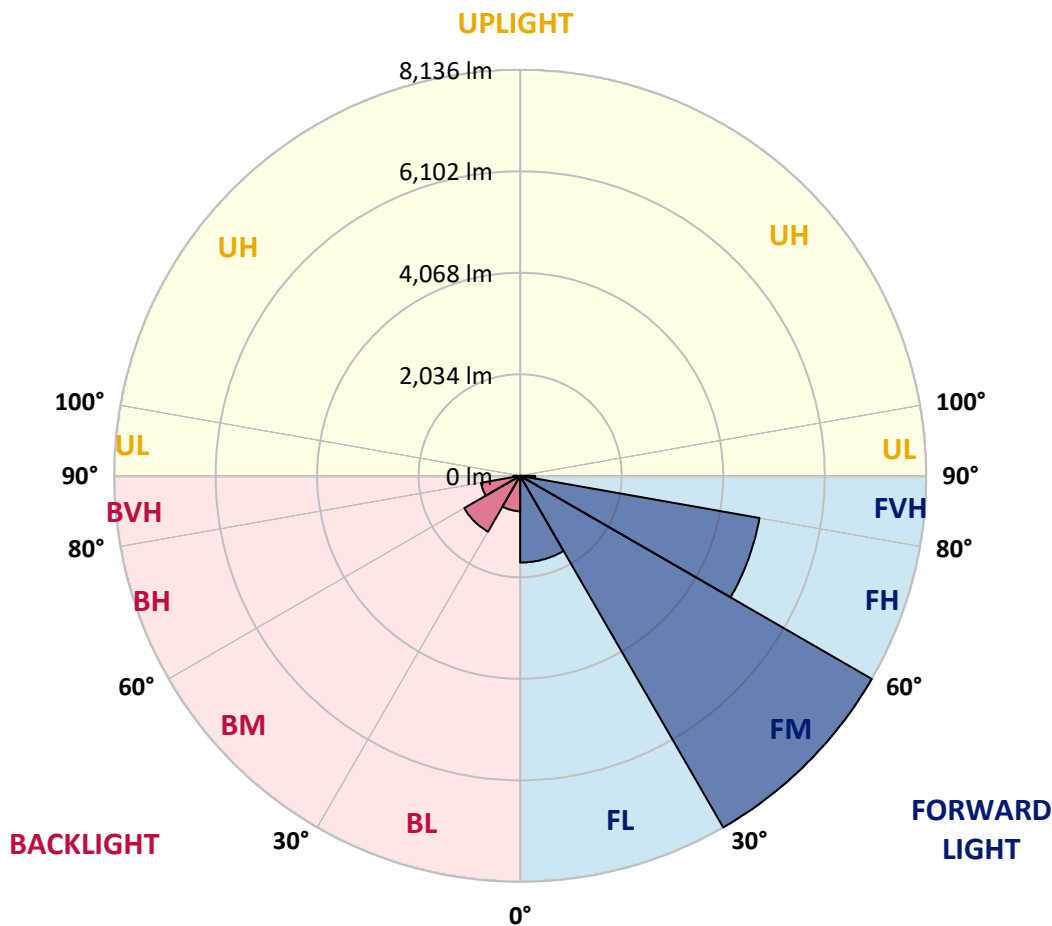
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1739.5	9.7			
FM (30°-60°)	8136.0	45.2			
FH (60°-80°)	4869.0	27.1			G2/5000
FVH (80°-90°)	301.8	1.7			G3/500
BL (0°-30°)	709.1	3.9	B2/1000		
BM (30°-60°)	1292.6	7.2	B2/2500		
BH (60°-80°)	796.3	4.4	B2/1000		G2/1000
BVH (80°-90°)	137.8	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°	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7
2.5°	2865.9	2844.6	2842.2	2809.1	2778.4	2695.6	2636.5	2532.5	2428.4	2426.1	2322.0
5°	3312.8	3291.5	3279.7	3239.5	3187.5	3078.7	2972.3	2811.5	2634.2	2622.3	2426.1
7.5°	3615.5	3596.5	3572.9	3556.3	3506.7	3409.7	3279.7	3088.2	2844.6	2821.0	2546.7
10°	3818.8	3807.0	3802.3	3790.4	3759.7	3681.7	3556.3	3353.0	3055.1	3029.0	2674.4
12.5°	3906.3	3901.6	3922.9	3956.0	3967.8	3937.0	3816.4	3624.9	3286.8	3258.4	2828.1
15°	3804.6	3809.4	3863.7	3977.2	4097.8	4164.0	4093.1	3906.3	3549.3	3509.1	3007.8
17.5°	3757.3	3764.4	3802.3	3911.0	4081.3	4287.0	4320.1	4173.5	3802.3	3745.5	3196.9
20°	3840.1	3849.6	3877.9	3963.1	4081.3	4301.2	4473.8	4428.9	4050.5	3991.4	3379.0
22.5°	4050.5	4062.4	4060.0	4114.4	4194.8	4346.1	4558.9	4670.1	4310.6	4244.4	3568.2
25°	4499.8	4490.4	4410.0	4384.0	4405.2	4502.2	4672.4	4901.8	4582.6	4516.4	3766.8
27.5°	5109.9	5098.1	4951.5	4819.0	4700.8	4743.4	4833.2	5088.6	4859.2	4783.6	3956.0
30°	5762.5	5748.3	5578.1	5362.9	5100.4	5038.9	5027.1	5251.8	5138.3	5057.9	4157.0
32.5°	6398.6	6386.8	6204.7	5954.0	5592.3	5407.8	5294.3	5433.8	5455.1	5377.1	4376.9
35°	6977.9	6977.9	6821.8	6523.9	6114.8	5835.8	5649.0	5658.5	5819.3	5729.4	4627.5
37.5°	7493.4	7491.0	7320.8	7027.6	6635.0	6315.8	6084.1	5930.4	6166.9	6088.8	4890.0
40°	7902.5	7885.9	7760.6	7505.2	7110.3	6793.5	6559.4	6249.6	6554.6	6483.7	5169.0
42.5°	8200.4	8190.9	8105.8	7883.5	7507.6	7209.6	7048.8	6651.6	6994.5	6923.5	5495.3
45°	8316.3	8335.2	8335.2	8124.7	7826.8	7554.9	7483.9	7093.8	7469.7	7398.8	5845.3
47.5°	8129.5	8179.1	8280.8	8295.0	8032.5	7848.1	7871.7	7538.3	7959.2	7921.4	6228.3
50°	7545.4	7637.6	7859.9	8261.9	8115.3	8072.7	8202.8	7992.3	8484.2	8472.3	6694.2
52.5°	6039.2	6263.8	6956.6	7677.8	8058.5	8176.8	8531.4	8503.1	9160.4	9179.3	7301.9
55°	4632.2	4717.4	5519.0	6746.2	7710.9	8143.7	8751.4	9002.0	9893.4	9917.1	7859.9
57.5°	3745.5	3802.3	4239.7	5519.0	6918.8	7963.9	8924.0	9292.8	10456.2	10517.7	8356.5
60°	2967.6	3050.3	3343.5	4223.2	5809.8	7531.2	9044.6	9616.8	11061.6	11153.8	8950.0
62.5°	2206.2	2246.4	2523.0	3128.4	4599.1	6753.3	8980.7	9969.1	11804.0	11915.2	9664.1
65°	1570.1	1605.6	1801.8	2225.1	3400.3	5701.0	8609.5	10231.6	12735.7	12849.2	10382.9
67.5°	1175.2	1189.4	1300.5	1555.9	2291.3	4428.9	7857.5	10186.7	13416.7	13518.4	10671.4
70°	929.3	934.0	988.4	1125.5	1489.7	3083.4	6540.5	9526.9	13466.3	13556.2	10307.3
72.5°	770.9	768.5	799.2	865.4	1038.1	1950.8	4845.0	8302.1	12827.9	12889.4	9290.5
75°	636.1	640.8	662.1	699.9	792.1	1286.3	3140.2	6623.2	11316.9	11250.7	7796.1
77.5°	534.4	532.0	541.5	574.6	640.8	924.6	1839.7	4785.9	8387.2	8354.1	5117.0
80°	430.4	435.1	449.3	477.6	539.1	704.6	1087.7	2986.5	4499.8	4379.2	2445.0
82.5°	288.5	333.4	361.8	394.9	465.8	520.2	690.5	1518.1	2012.3	1981.5	1109.0
85°	137.1	182.1	269.6	307.4	378.3	326.3	468.2	723.6	1007.3	995.5	399.6
87.5°	28.4	28.4	144.2	172.6	234.1	139.5	260.1	314.5	487.1	456.4	163.2
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°	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7
2.5°	2260.5	2196.7	2069.0	1967.3	1863.3	1804.2	1730.9	1695.4	1688.3	1669.4	1683.6
5°	2300.7	2175.4	1934.2	1775.8	1669.4	1617.4	1591.4	1581.9	1579.5	1574.8	1574.8
7.5°	2355.1	2163.6	1849.1	1688.3	1619.7	1603.2	1610.3	1624.5	1626.8	1631.6	1629.2
10°	2421.3	2166.0	1801.8	1667.0	1633.9	1636.3	1659.9	1678.9	1688.3	1695.4	1693.0
12.5°	2513.6	2194.3	1794.7	1681.2	1667.0	1676.5	1700.1	1719.1	1728.5	1730.9	1730.9
15°	2634.2	2253.5	1811.3	1712.0	1700.1	1707.2	1721.4	1728.5	1730.9	1728.5	1728.5
17.5°	2766.6	2324.4	1834.9	1730.9	1712.0	1704.9	1700.1	1693.0	1678.9	1669.4	1669.4
20°	2894.3	2388.2	1846.7	1728.5	1695.4	1667.0	1638.7	1603.2	1579.5	1560.6	1560.6
22.5°	3021.9	2447.4	1846.7	1702.5	1650.5	1596.1	1537.0	1480.2	1444.8	1421.1	1421.1
25°	3156.7	2504.1	1832.6	1657.6	1579.5	1501.5	1421.1	1350.2	1314.7	1291.1	1286.3
27.5°	3270.2	2537.2	1794.7	1593.7	1492.1	1392.7	1300.5	1227.2	1201.2	1179.9	1179.9
30°	3390.8	2558.5	1723.8	1511.0	1392.7	1279.2	1184.7	1125.5	1097.2	1066.4	1064.1
32.5°	3525.6	2572.7	1643.4	1423.5	1291.1	1170.5	1090.1	1042.8	981.3	948.2	943.5
35°	3681.7	2591.6	1558.3	1324.2	1189.4	1080.6	1033.3	955.3	896.2	867.8	865.4
37.5°	3847.2	2605.8	1466.0	1236.7	1097.2	1021.5	974.2	882.0	830.0	787.4	782.7
40°	4022.2	2605.8	1371.5	1151.6	1023.9	995.5	905.6	822.9	735.4	714.1	709.4
42.5°	4216.1	2601.1	1276.9	1068.8	955.3	936.4	865.4	778.0	733.0	714.1	709.4
45°	4421.8	2584.5	1187.0	974.2	884.4	846.5	792.1	768.5	749.6	749.6	749.6
47.5°	4655.9	2570.3	1085.3	889.1	832.3	789.8	749.6	735.4	733.0	740.1	747.2
50°	4956.2	2565.6	1000.2	827.6	792.1	742.5	737.8	725.9	728.3	728.3	728.3
52.5°	5320.3	2523.0	919.8	782.7	751.9	692.8	707.0	718.8	723.6	721.2	718.8
55°	5587.5	2447.4	851.3	751.9	723.6	673.9	692.8	711.7	716.5	709.4	709.4
57.5°	5828.7	2340.9	796.9	728.3	704.6	662.1	683.4	702.3	697.6	695.2	692.8
60°	6105.4	2239.3	754.3	716.5	685.7	657.4	676.3	688.1	681.0	676.3	673.9
62.5°	6405.7	2140.0	723.6	716.5	671.5	655.0	669.2	673.9	659.7	655.0	655.0
65°	6545.2	1983.9	690.5	716.5	664.5	650.3	655.0	650.3	636.1	636.1	633.7
67.5°	6315.8	1726.2	647.9	707.0	673.9	643.2	633.7	626.6	610.1	610.1	605.3
70°	5682.1	1418.8	586.4	676.3	676.3	640.8	605.3	588.8	569.9	577.0	567.5
72.5°	4854.5	1125.5	510.8	624.3	662.1	638.4	574.6	548.6	532.0	539.1	524.9
75°	3932.3	872.5	420.9	541.5	626.6	626.6	543.9	508.4	489.5	489.5	472.9
77.5°	2506.5	645.5	342.9	449.3	562.8	610.1	517.8	463.5	435.1	428.0	416.2
80°	1241.4	454.0	281.4	357.1	480.0	572.2	498.9	411.4	371.2	357.1	335.8
82.5°	659.7	314.5	224.6	279.0	383.1	515.5	475.3	354.7	305.0	283.8	260.1
85°	295.6	193.9	179.7	212.8	290.8	423.3	428.0	290.8	234.1	279.0	205.7
87.5°	108.8	87.5	87.5	108.8	167.9	177.3	302.7	186.8	149.0	101.7	80.4
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)