

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: P622770

Luminaire Tested: **PRV-M-PA6C-740-U-T4W-HSS**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-M-PA6C-740-U-T4W-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

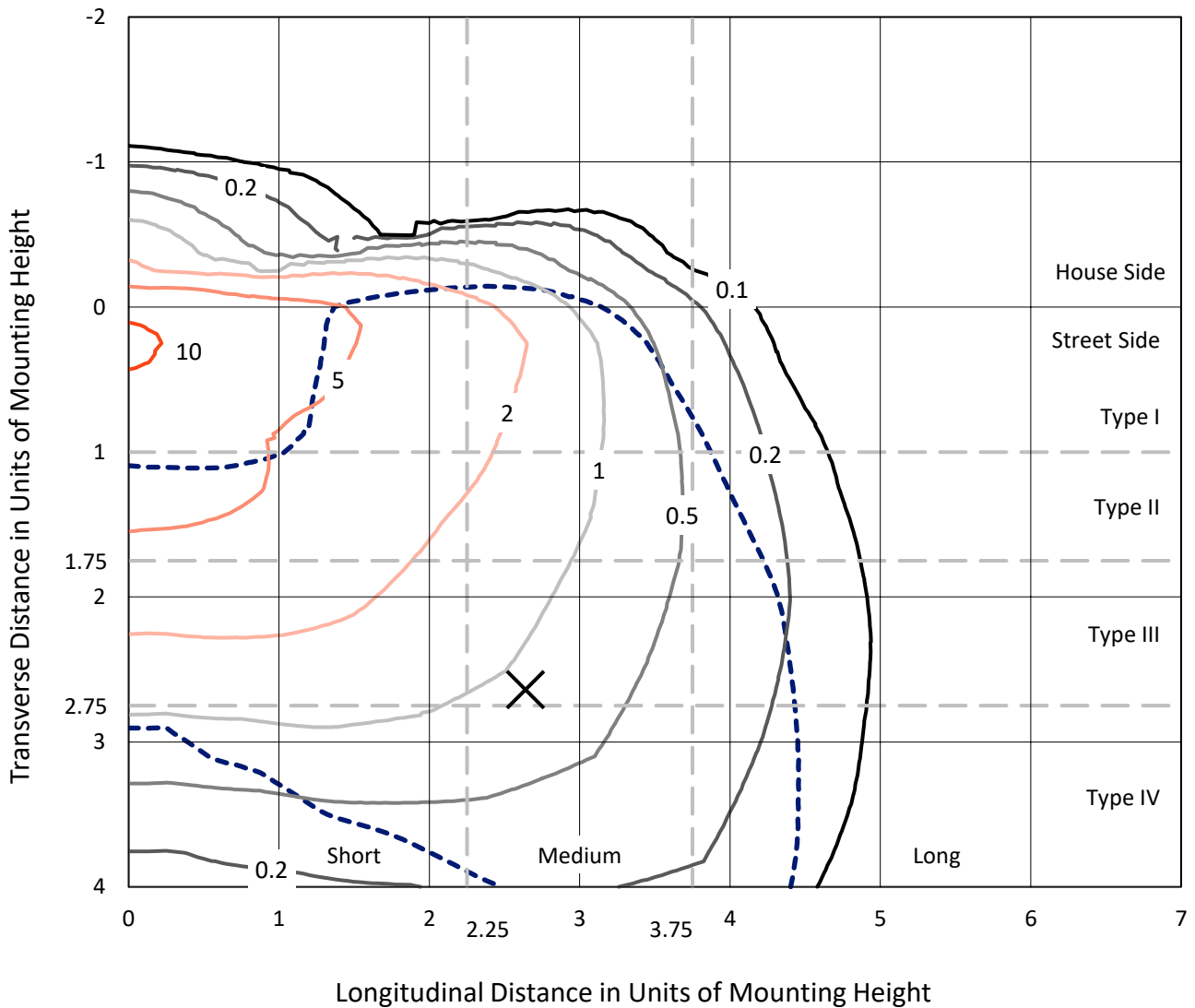
Lumens per Lamp: N/A  
Luminaire Lumens: 44650 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 457.2  
Input Voltage (V): NR  
Input Current (Ain): 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

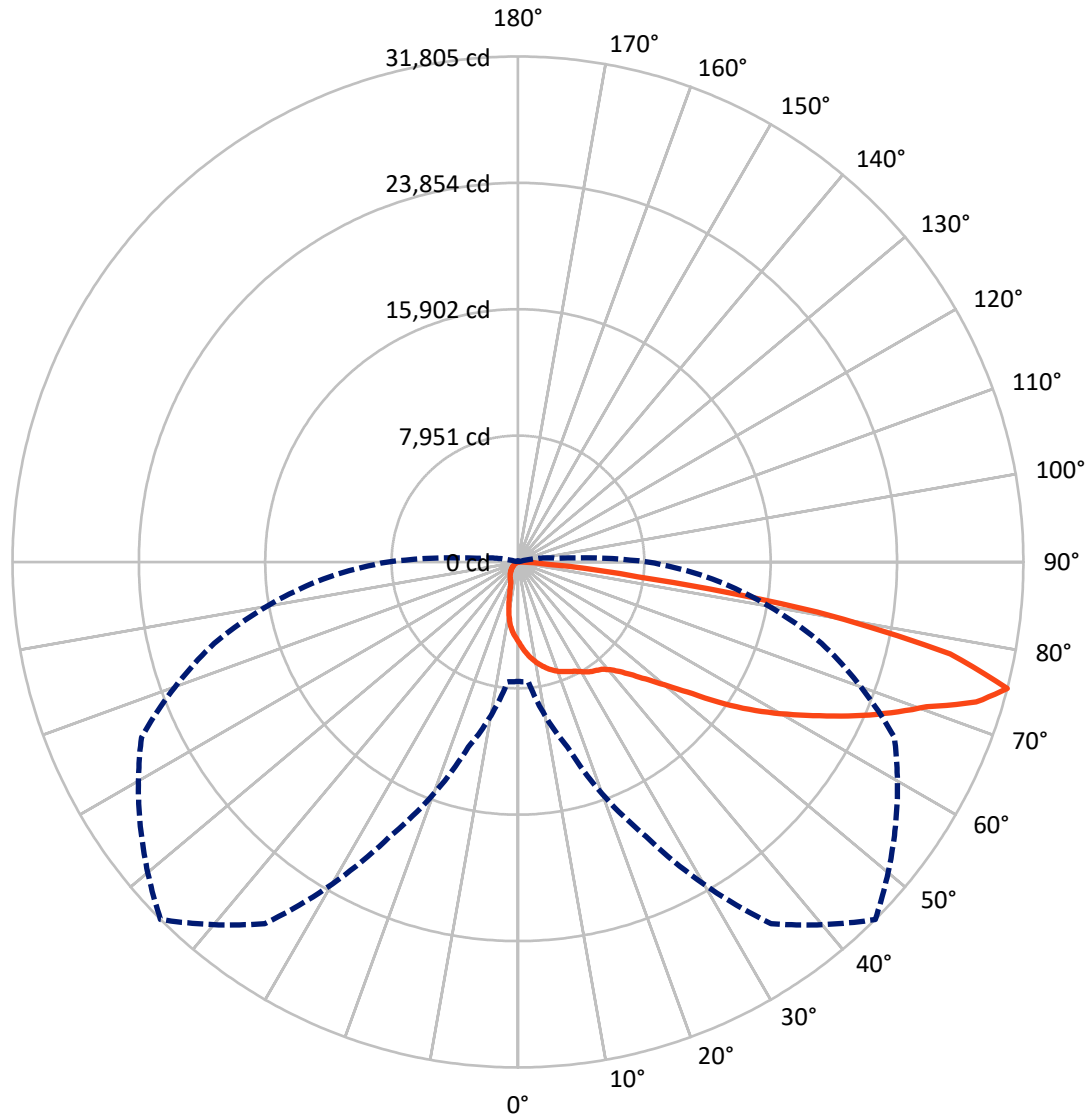
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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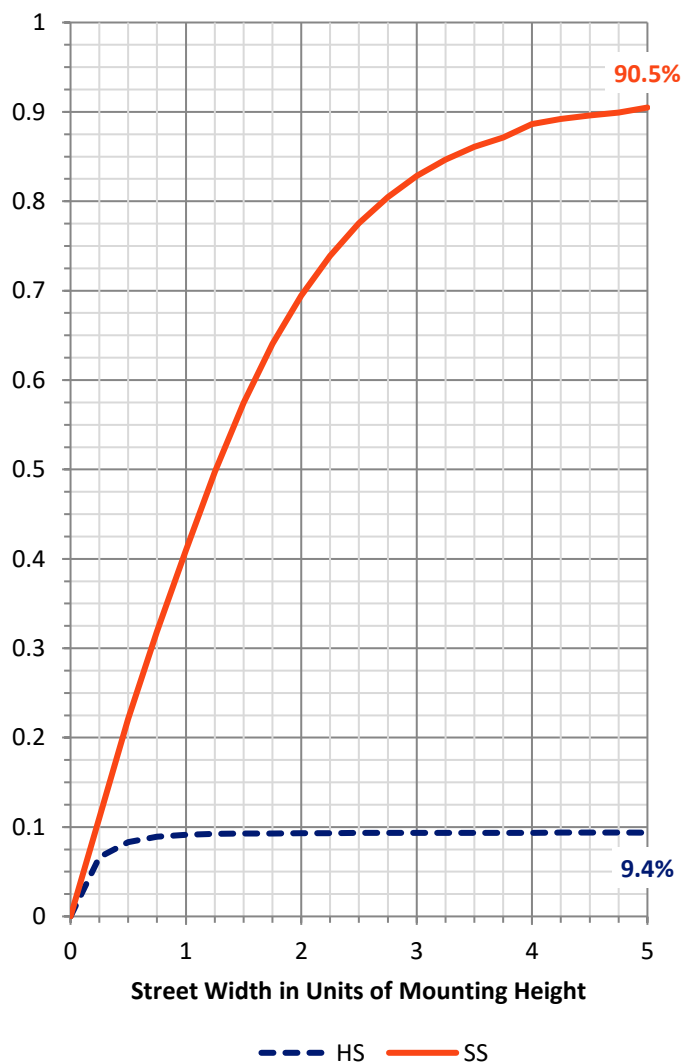
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4219.4	0.0	4219.4
	% Fixture	9.5	0.0	9.5
<b>Street Side</b>	Lumens	40430.6	0.0	40430.6
	% Fixture	90.5	0.0	90.5
<b>Total</b>	Lumens	44650.0	0.0	44650.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.4	1.1
10°-20°	1381.1	3.1
20°-30°	2250.5	5.0
30°-40°	3176.1	7.1
40°-50°	5074.4	11.4
50°-60°	8604.9	19.3
60°-70°	12473.6	27.9
70°-80°	10153.3	22.7
80°-90°	1055.9	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°	44650.0	100.0
0°-180°	44650.0	100.0

**Coefficient of Utilization**



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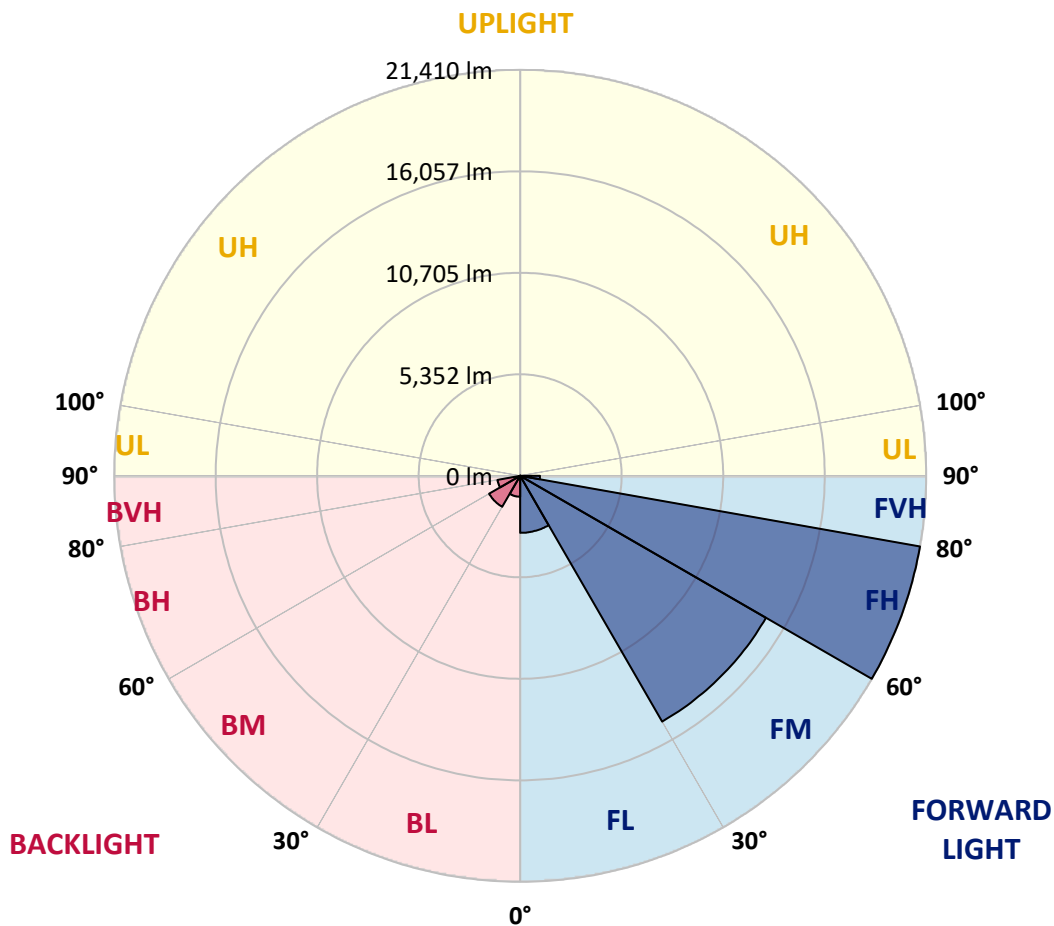
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3008.9	6.7			
FM (30°-60°)	14967.0	33.5			
FH (60°-80°)	21409.6	47.9			G5
FVH (80°-90°)	1045.0	2.3			G5
BL (0°-30°)	1103.0	2.5	B3/2500		
BM (30°-60°)	1888.3	4.2	B2/2500		
BH (60°-80°)	1217.3	2.7	B3/2500		G3/2500
BVH (80°-90°)	10.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8
2.5°	5589.3	5592.2	5569.9	5519.3	5461.3	5413.7	5327.4	5242.5	5151.8	5064.0	5025.3
5°	6151.8	6141.3	6098.2	6005.9	5894.3	5787.2	5611.6	5449.4	5263.4	5083.3	5001.5
7.5°	6674.1	6647.3	6578.8	6446.4	6302.1	6125.0	5898.8	5662.2	5404.7	5171.1	5050.6
10°	7127.9	7104.1	7004.4	6831.8	6636.9	6428.5	6177.1	5927.1	5650.3	5348.2	5197.9
12.5°	7522.3	7477.6	7357.1	7138.4	6907.7	6700.9	6444.9	6217.2	5891.3	5568.4	5382.4
15°	7858.6	7809.5	7671.1	7401.7	7132.4	6950.9	6720.2	6494.0	6183.0	5797.6	5583.3
17.5°	8089.2	8043.1	7892.8	7590.7	7316.9	7163.7	6991.0	6767.8	6455.3	6037.2	5797.6
20°	8165.1	8114.5	7989.5	7681.5	7436.0	7354.1	7206.8	7017.8	6712.8	6282.7	6025.3
22.5°	8092.2	8043.1	7956.8	7674.1	7502.9	7497.0	7398.8	7247.0	6955.3	6522.3	6244.0
25°	7989.5	7943.4	7872.0	7630.9	7546.1	7626.4	7578.8	7452.3	7211.3	6778.2	6505.9
27.5°	7949.4	7898.8	7834.8	7636.9	7632.4	7788.6	7790.1	7697.9	7471.7	7044.6	6760.4
30°	8016.3	7959.8	7888.4	7720.2	7775.3	8013.4	8081.8	7977.6	7715.7	7291.6	7020.8
32.5°	8184.5	8083.3	7995.5	7843.7	7934.5	8244.0	8351.1	8187.5	7909.2	7544.6	7306.5
35°	8473.2	8316.9	8171.1	8005.9	8077.3	8391.3	8549.1	8424.1	8144.3	7851.1	7653.2
37.5°	9093.7	8897.3	8657.7	8328.8	8284.2	8569.9	8813.9	8797.6	8510.4	8254.4	8101.1
40°	10306.5	10059.5	9712.7	9002.9	8641.3	8895.8	9230.6	9315.4	9026.7	8805.0	8696.4
42.5°	12296.1	12046.1	11422.6	10081.8	9205.3	9421.1	9797.6	10022.3	9726.1	9581.8	9485.1
45°	14383.9	14191.9	13553.5	11680.0	10141.3	10163.6	10563.9	10982.1	10796.1	10635.4	10499.9
47.5°	15967.2	15781.2	15322.8	13614.5	11580.3	11086.3	11507.4	12141.3	12055.0	11916.6	11772.3
50°	17096.6	16897.2	16604.1	15437.4	13444.9	12247.0	12622.0	13485.0	13699.3	13617.5	13348.1
52.5°	18154.7	17953.8	17702.3	17025.2	15547.5	13752.9	13947.8	15121.9	15491.0	15532.7	14944.9
55°	19032.6	18874.9	18980.6	18550.5	17732.0	15769.3	15495.5	16821.3	17395.7	17694.8	16769.3
57.5°	19584.7	19412.1	19989.5	20227.6	19941.9	17639.8	17151.7	18688.9	19282.6	20029.7	18471.6
60°	20132.3	19934.4	20732.0	21718.6	22025.2	19450.8	18980.6	20569.8	21182.9	22709.7	20188.9
62.5°	20447.8	20230.5	21330.2	22854.0	23700.8	21302.0	20932.9	22480.5	23135.3	25510.3	21645.7
65°	19361.5	19309.4	21508.8	23599.6	25081.7	23337.7	23019.2	24386.8	25087.7	28072.8	22818.3
67.5°	18020.7	18010.3	20949.3	24066.8	26212.7	25315.3	25004.3	26340.6	26907.6	29595.1	23023.7
70°	17038.6	17041.6	19943.3	24684.4	27510.3	27284.1	26955.2	28169.5	28050.4	28480.5	21171.0
72.5°	14116.0	14257.4	17349.6	23770.7	29081.7	30148.7	28718.6	29005.8	26297.5	22060.9	15595.2
75°	7514.8	7575.9	12050.5	19044.5	27779.6	31804.9	29002.8	26141.2	19785.6	12288.6	8193.4
77.5°	2529.7	2476.2	4197.9	10276.7	21191.9	27807.9	23772.2	18386.8	10586.3	4052.1	2647.3
80°	799.1	825.9	1358.6	3267.8	11184.5	19080.3	14309.4	9107.1	3166.6	906.2	522.3
82.5°	360.1	389.9	625.0	1434.5	4394.3	7578.8	6924.1	3144.3	1086.3	290.2	194.9
85°	135.4	144.3	306.5	817.0	1784.2	2080.3	2403.3	1151.8	697.9	114.6	77.4
87.5°	32.7	37.2	126.5	264.9	416.7	282.7	395.8	425.6	391.4	40.2	31.2
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8	5026.8
2.5°	4988.1	4906.2	4849.7	4767.8	4693.4	4666.6	4626.5	4614.6	4616.0	4580.3
5°	4928.5	4778.2	4654.7	4516.3	4392.8	4297.6	4196.4	4139.9	4114.6	4101.2
7.5°	4941.9	4721.7	4505.9	4247.0	3970.2	3741.1	3534.2	3415.2	3351.2	3339.3
10°	5052.1	4747.0	4386.9	3895.8	3391.4	3008.9	2714.3	2552.1	2455.3	2442.0
12.5°	5205.3	4791.6	4194.9	3436.0	2730.6	2215.8	1892.8	1787.2	1757.4	1754.5
15°	5375.0	4814.0	3913.7	2888.4	2058.0	1619.0	1471.7	1485.1	1503.0	1504.5
17.5°	5559.5	4794.6	3540.2	2296.1	1568.4	1369.0	1327.4	1366.1	1416.7	1418.1
20°	5757.4	4714.3	3098.2	1766.4	1343.7	1270.8	1267.9	1297.6	1351.2	1357.1
22.5°	5956.8	4564.0	2555.0	1428.6	1233.6	1217.3	1208.3	1227.7	1281.2	1287.2
25°	6160.7	4333.3	2020.8	1233.6	1166.7	1159.2	1145.8	1157.7	1202.4	1209.8
27.5°	6373.5	4065.5	1593.7	1110.1	1090.8	1087.8	1083.3	1078.9	1119.0	1128.0
30°	6572.9	3683.0	1266.4	1022.3	1000.0	1003.0	998.5	998.5	1031.2	1038.7
32.5°	6782.7	3279.7	1062.5	943.4	909.2	904.8	909.2	913.7	934.5	942.0
35°	7010.4	2812.5	946.4	870.5	824.4	803.6	805.1	812.5	827.4	834.8
37.5°	7272.3	2366.1	869.0	803.6	747.0	712.8	694.9	694.9	711.3	711.3
40°	7590.7	1894.3	812.5	741.1	675.6	625.0	590.8	565.5	558.0	569.9
42.5°	7976.1	1507.4	764.9	692.0	608.6	546.1	483.6	431.5	418.2	422.6
45°	8459.8	1180.1	720.2	641.4	540.2	459.8	376.5	308.0	290.2	294.6
47.5°	9040.1	967.3	674.1	586.3	468.7	373.5	264.9	208.3	206.8	211.3
50°	9720.2	825.9	619.0	532.7	400.3	281.2	178.6	145.8	159.2	166.7
52.5°	10473.2	745.5	565.5	480.7	328.9	196.4	126.5	116.1	133.9	139.9
55°	11232.1	690.5	513.4	421.1	256.0	139.9	99.7	98.2	117.6	122.0
57.5°	11879.4	626.5	462.8	354.2	193.5	111.6	87.8	87.8	107.1	111.6
60°	12388.3	541.7	403.3	270.8	148.8	98.2	77.4	77.4	98.2	102.7
62.5°	12775.2	418.2	314.0	200.9	126.5	92.3	69.9	68.5	89.3	95.2
65°	12869.0	290.2	229.2	153.3	114.6	87.8	62.5	59.5	80.4	84.8
67.5°	12441.9	205.4	171.1	123.5	107.1	84.8	56.5	50.6	69.9	74.4
70°	10808.0	159.2	132.4	101.2	102.7	83.3	52.1	43.2	56.5	59.5
72.5°	7291.6	131.0	107.1	86.3	96.7	78.9	46.1	34.2	44.6	46.1
75°	2589.3	105.7	84.8	69.9	83.3	69.9	38.7	26.8	32.7	34.2
77.5°	465.8	77.4	61.0	50.6	64.0	55.1	31.2	19.3	23.8	23.8
80°	117.6	44.6	35.7	28.3	43.2	38.7	23.8	14.9	16.4	16.4
82.5°	49.1	23.8	23.8	19.3	23.8	23.8	14.9	8.9	10.4	10.4
85°	28.3	19.3	19.3	16.4	16.4	14.9	10.4	6.0	3.0	4.5
87.5°	19.3	17.9	16.4	14.9	13.4	8.9	6.0	3.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)