

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: P622767

Luminaire Tested: **PRV-M-PA6C-740-U-T2U**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622767  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-8)  
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-T2U  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE II U OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 61565 lumens  
Efficiency: N/A  
Efficacy: 134.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

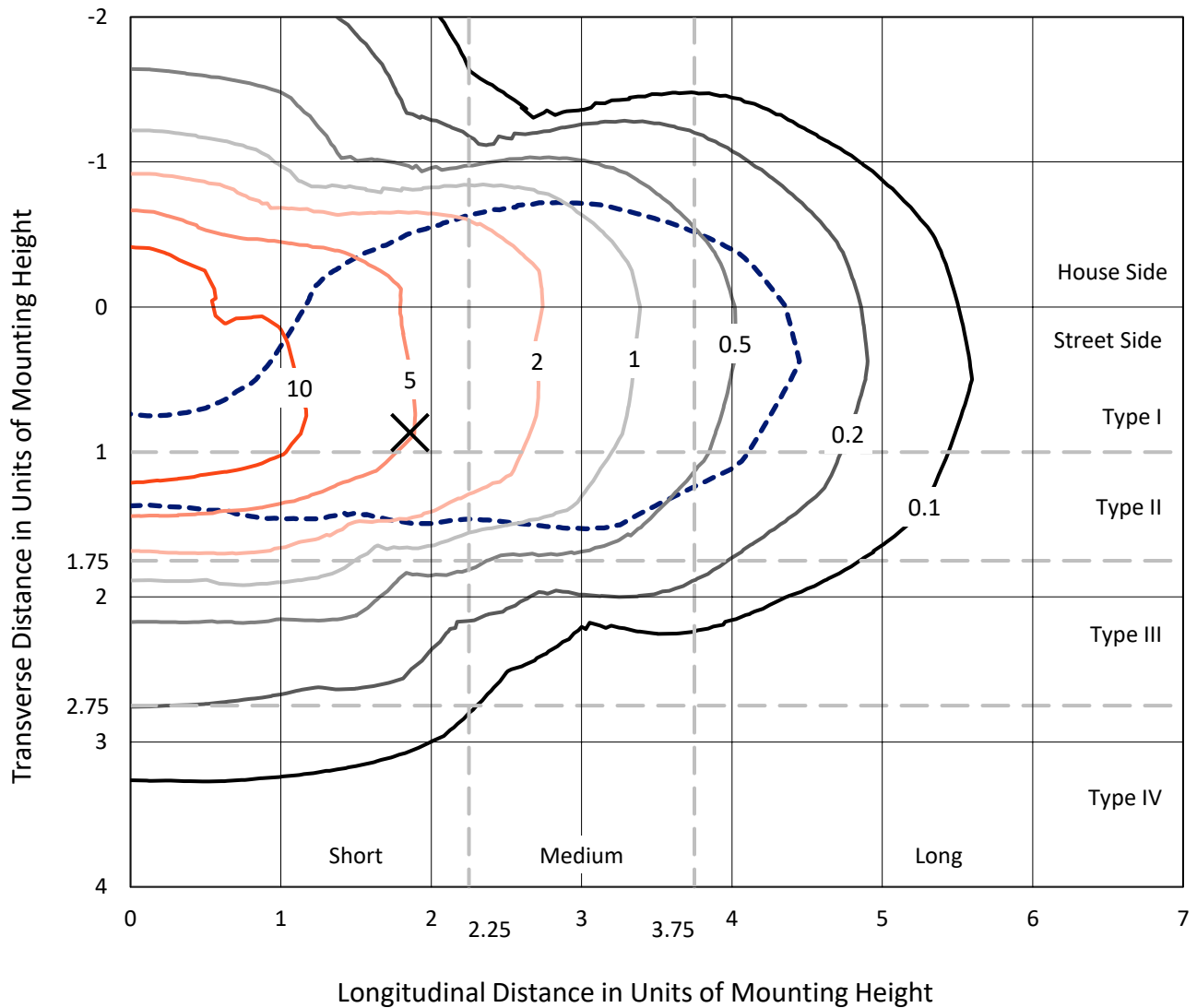
Input Watts (W): 457.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

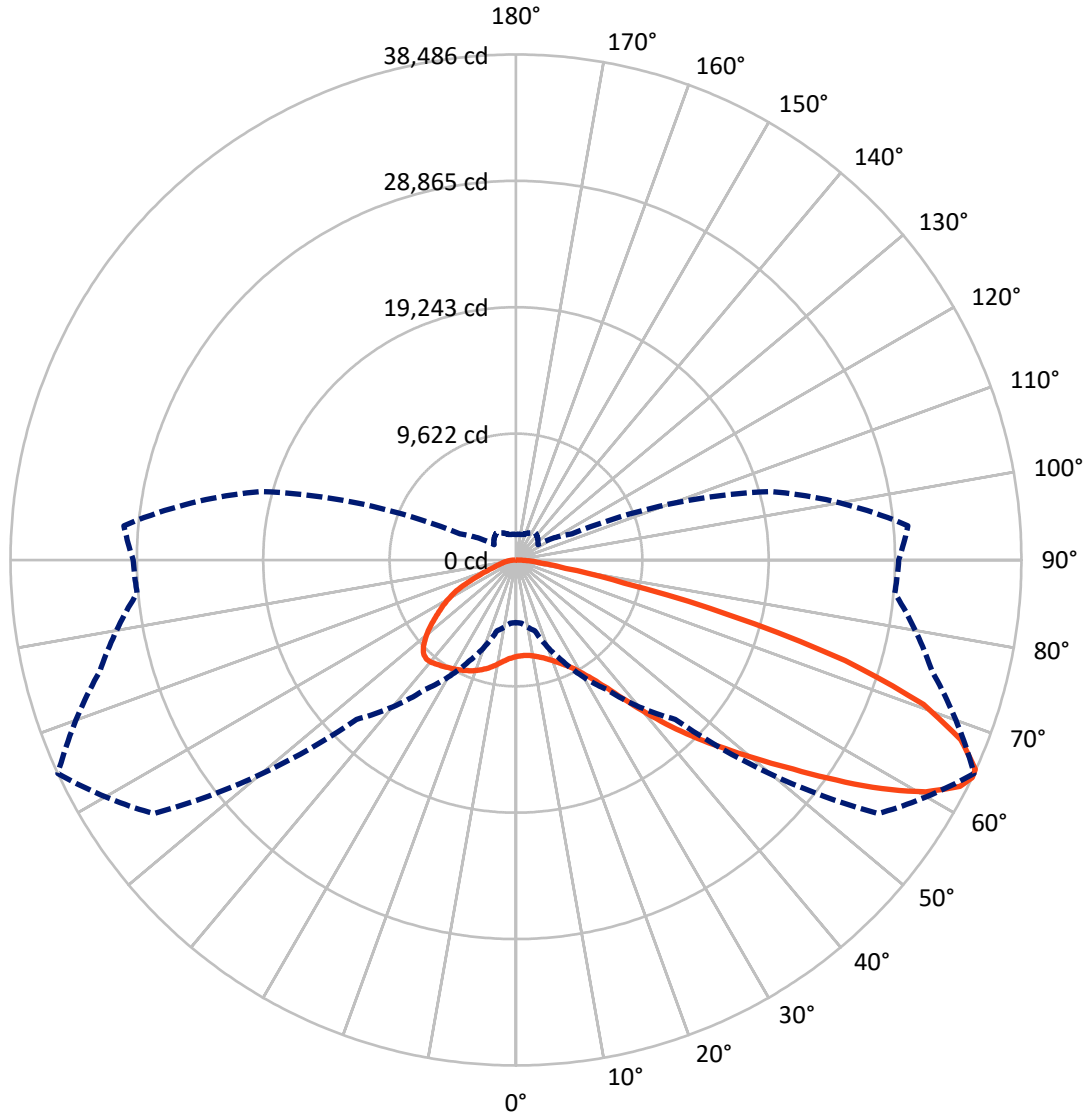
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Short - N/A

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CATALOG NUMBER: PRV-M-PA6C-740-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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 CATALOG NUMBER: PRV-M-PA6C-740-U-T2U

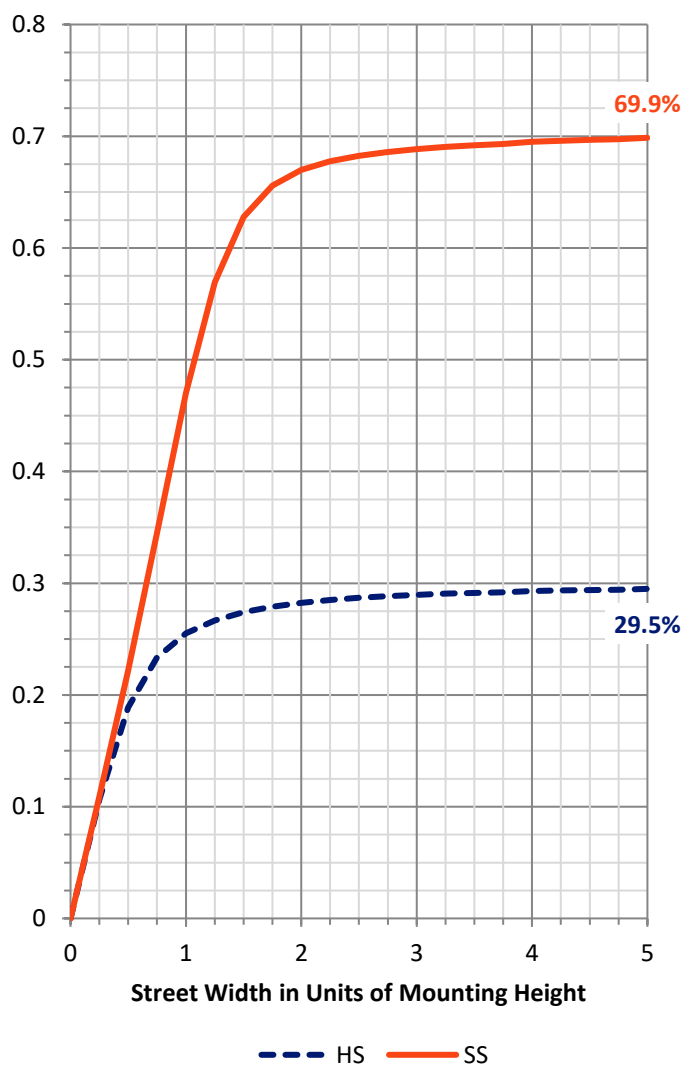
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18358.4	0.0	18358.4
	% Fixture	29.8	0.0	29.8
<b>Street Side</b>	Lumens	43206.6	0.0	43206.6
	% Fixture	70.2	0.0	70.2
<b>Total</b>	Lumens	61565.0	0.0	61565.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	724.9	1.2
10°-20°	2306.2	3.7
20°-30°	4144.2	6.7
30°-40°	6754.8	11.0
40°-50°	11260.9	18.3
50°-60°	14651.2	23.8
60°-70°	13216.4	21.5
70°-80°	7386.6	12.0
80°-90°	1119.8	1.8
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°	61565.0	100.0
0°-180°	61565.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P622767

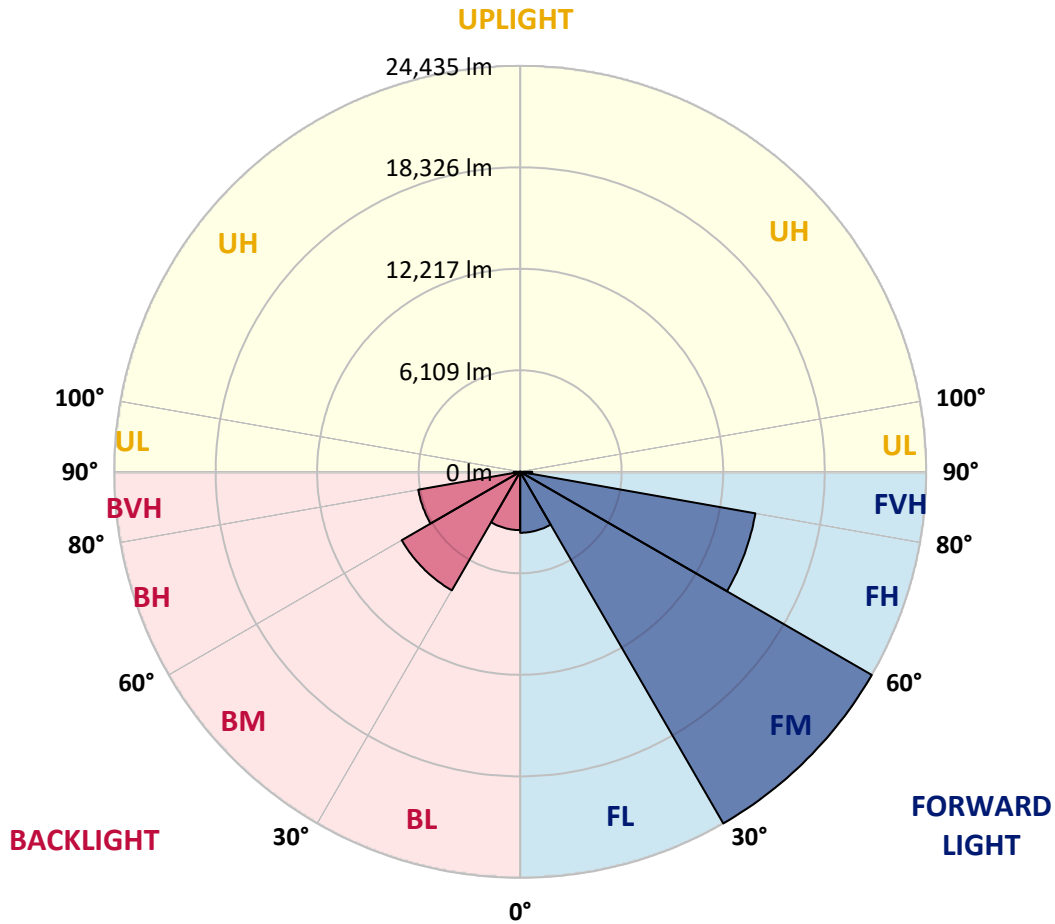
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3667.7	6.0			
FM (30°-60°)	24434.8	39.7			
FH (60°-80°)	14376.1	23.4			G5
FVH (80°-90°)	728.1	1.2			G4/750
BL (0°-30°)	3507.6	5.7	B4/5000		
BM (30°-60°)	8232.1	13.4	B4/8500		
BH (60°-80°)	6226.9	10.1	B5		G5
BVH (80°-90°)	391.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7346.6	7346.6	7346.6	7346.6	7346.6	7346.6	7346.6	7346.6	7346.6	7346.6	7346.6
2.5°	7340.7	7282.7	7285.6	7285.6	7287.1	7290.1	7300.5	7308.0	7315.4	7328.8	7357.1
5°	7300.5	7246.9	7254.4	7258.8	7267.8	7278.2	7290.1	7296.1	7308.0	7336.2	7374.9
7.5°	7270.8	7217.2	7227.6	7235.0	7249.9	7275.2	7312.4	7342.2	7360.0	7398.7	7450.8
10°	7319.9	7258.8	7269.3	7266.3	7273.7	7313.9	7371.9	7434.4	7459.7	7510.3	7575.8
12.5°	7452.3	7391.3	7394.3	7371.9	7379.4	7424.0	7489.5	7566.9	7596.6	7650.2	7717.2
15°	7659.1	7575.8	7577.3	7559.4	7553.5	7596.6	7651.7	7723.1	7752.9	7808.0	7870.4
17.5°	8010.3	7932.9	7897.2	7819.9	7793.1	7830.3	7882.4	7941.9	7968.7	7991.0	8047.5
20°	8620.4	8525.2	8446.3	8296.0	8159.1	8129.4	8154.7	8209.7	8209.7	8197.8	8245.4
22.5°	9492.5	9403.2	9285.6	9022.2	8702.3	8541.6	8488.0	8522.2	8495.4	8443.4	8453.8
25°	10554.9	10370.4	10270.7	9949.3	9444.8	9105.6	8915.1	8891.3	8861.5	8776.7	8752.9
27.5°	11868.9	11696.3	11444.8	10995.4	10334.7	9834.7	9480.6	9370.4	9302.0	9144.2	9075.8
30°	13410.6	13147.2	12839.1	12209.7	11391.2	10721.6	10203.8	10008.8	9846.6	9569.8	9444.8
32.5°	15145.7	14851.0	14482.0	13665.0	12666.5	11804.9	11168.0	10836.2	10584.7	10224.6	9991.0
35°	17461.1	17178.4	16449.2	15510.2	14185.9	13114.4	12385.3	11988.0	11679.9	11199.3	10885.3
37.5°	20383.7	19871.8	18913.5	17764.7	16092.1	14740.9	13840.6	13513.2	13145.7	12519.2	12084.7
40°	22871.8	22355.4	21623.3	20325.7	18538.5	16904.6	15743.9	15315.3	14867.4	14026.6	13541.5
42.5°	24782.5	24266.1	23725.9	22859.9	21446.2	19782.5	17883.7	17325.7	16688.8	15638.2	14996.9
45°	25932.8	25355.4	25081.6	24919.4	24432.8	24455.1	20447.7	19373.3	18507.2	17325.7	16537.0
47.5°	26267.6	25654.5	25711.0	26209.5	26961.0	27824.1	23449.1	21473.0	20351.0	18907.5	18132.2
50°	25187.2	24734.8	25355.4	26864.3	28946.1	30434.2	26769.1	23786.9	22225.9	20650.1	19714.1
52.5°	21801.8	21792.9	23166.4	26145.5	30136.6	32770.5	30173.8	26443.2	24182.8	22349.5	21370.3
55°	17237.9	17233.4	19275.1	23199.2	29670.8	33651.4	33036.8	29581.5	26211.0	23998.2	23087.5
57.5°	12095.1	12504.3	14862.9	18526.6	26283.9	33013.0	34797.2	32865.7	28202.1	25609.8	24742.3
60°	7898.7	8065.4	10485.0	14462.6	20620.3	29614.3	35536.8	35853.8	30121.7	27016.1	26425.3
62.5°	5629.4	5665.1	6797.5	10804.9	14691.8	23005.7	34905.9	37953.5	31895.5	28289.9	28154.5
64°	4767.8	4822.9	5584.8	8540.1	12037.1	17157.6	33660.3	38486.2	32807.7	28956.5	29147.0
65°	4313.9	4366.0	4980.6	7197.8	10732.0	13889.7	32141.0	38440.1	33404.4	29347.9	29758.6
67.5°	3537.2	3541.6	3872.0	4943.4	8004.4	8126.4	24615.8	36523.4	34130.6	29940.1	30931.2
70°	3163.7	3180.0	3358.6	3744.0	5976.1	5436.0	13918.0	32914.8	33344.9	29693.1	31032.4
72.5°	2589.3	2636.9	2927.1	3235.1	4288.6	3809.5	6516.3	26221.4	29978.8	28269.0	29370.2
75°	2017.8	2052.1	2331.8	2854.1	3077.3	2848.2	3611.6	16935.8	24026.5	25074.1	25051.8
77.5°	1519.3	1553.6	1793.1	2258.9	2738.1	2116.0	2434.5	8416.6	16604.0	18964.1	18041.5
80°	1148.8	1147.3	1358.6	1702.4	2235.1	1587.8	1644.3	3815.4	9491.0	11343.6	10014.8
82.5°	791.7	808.0	998.5	1305.0	1547.6	1528.3	1151.8	1974.7	4197.9	4773.8	4595.2
85°	555.1	547.6	706.8	860.1	1020.8	1105.6	770.8	1110.1	1816.9	950.9	846.7
87.5°	309.5	308.0	419.6	474.7	508.9	446.4	459.8	431.5	714.3	375.0	241.1
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°	7346.6	7346.6	7346.6	7346.6	7346.6	7346.6	7346.6	7346.6	7346.6	7346.6
2.5°	7349.6	7392.8	7431.5	7467.2	7479.1	7513.3	7552.0	7560.9	7571.3	7492.5
5°	7386.8	7473.1	7568.4	7647.2	7717.2	7791.6	7882.4	7900.2	7938.9	7839.2
7.5°	7491.0	7619.0	7773.7	7904.7	8022.2	8129.4	8245.4	8288.6	8313.9	8217.2
10°	7630.9	7815.4	8008.8	8206.8	8349.6	8468.7	8560.9	8562.4	8589.2	8496.9
12.5°	7788.6	8016.3	8263.3	8482.1	8626.4	8687.4	8705.3	8653.2	8654.7	8555.0
15°	7946.3	8212.7	8511.8	8720.1	8787.1	8749.9	8702.3	8633.8	8621.9	8516.3
17.5°	8138.3	8422.5	8720.1	8883.8	8827.3	8717.2	8659.1	8577.3	8568.4	8458.2
20°	8324.3	8636.8	8919.5	8967.2	8778.2	8619.0	8537.1	8415.1	8392.8	8278.2
22.5°	8514.8	8833.2	9096.6	8974.6	8662.1	8413.6	8260.3	8095.1	8057.9	7956.8
25°	8761.8	9035.6	9248.4	8915.1	8428.5	8034.1	7803.5	7630.9	7611.5	7532.7
27.5°	9087.7	9306.4	9400.2	8784.1	8052.0	7510.3	7224.6	7066.9	7089.2	6991.0
30°	9397.2	9596.6	9538.6	8553.5	7513.3	6831.8	6589.2	6471.7	6510.3	6413.6
32.5°	9834.7	9946.3	9668.0	8217.2	6889.8	6187.4	5982.1	5816.9	5781.2	5758.9
35°	10636.8	10595.1	9818.3	7822.8	6263.3	5586.2	5288.6	5011.8	4946.4	4837.7
37.5°	11736.5	11529.6	9953.8	7395.8	5671.1	4974.6	4572.9	4258.9	4151.7	4066.9
40°	13011.8	12618.9	10101.1	6882.4	5120.5	4367.5	4000.0	3669.6	3553.5	3519.3
42.5°	14404.6	13697.8	10175.5	6184.5	4620.5	3986.6	3563.9	3263.4	3132.4	3068.4
45°	15879.3	14723.1	10031.1	5415.1	4230.6	3703.8	3247.0	2876.5	2727.6	2708.3
47.5°	17331.7	15540.0	9627.9	4742.5	3949.4	3494.0	2892.8	2648.8	2561.0	2532.7
50°	18967.1	16218.6	9011.8	4153.2	3700.9	3172.6	2720.2	2541.6	2470.2	2450.9
52.5°	20681.3	16788.5	8294.6	3700.9	3394.3	2982.1	2632.4	2440.4	2386.9	2370.5
55°	22501.2	17339.1	7519.3	3288.7	3026.8	2898.8	2552.1	2355.6	2318.4	2309.5
57.5°	24531.0	17977.5	6794.6	2839.3	2802.1	2818.4	2492.5	2296.1	2267.8	2261.9
60°	26612.8	18778.1	6102.6	2473.2	2625.0	2741.0	2431.5	2218.7	2166.6	2148.8
62.5°	28772.0	19662.0	5297.6	2183.0	2447.9	2636.9	2339.3	2093.7	2044.6	2020.8
64°	29969.9	20123.3	4712.7	2037.2	2346.7	2552.1	2258.9	1998.5	1962.8	1939.0
65°	30638.1	20377.8	4241.0	1953.8	2273.8	2486.6	2194.9	1927.1	1912.2	1885.4
67.5°	31587.5	20470.0	3171.1	1776.8	2066.9	2282.7	2003.0	1764.9	1802.1	1753.0
70°	30886.6	19595.0	2285.7	1613.1	1837.8	2049.1	1827.4	1595.2	1641.4	1561.0
72.5°	28144.0	16974.5	1726.2	1436.0	1604.1	1809.5	1625.0	1406.2	1372.0	1316.9
75°	22605.4	12621.9	1367.5	1266.4	1382.4	1562.5	1419.6	1203.9	1129.5	1102.7
77.5°	15925.4	7462.7	1105.6	1084.8	1174.1	1302.1	1214.3	1023.8	927.1	921.1
80°	8678.5	3282.7	901.8	894.3	949.4	1064.0	1019.3	848.2	744.0	718.7
82.5°	3282.7	1406.2	684.5	692.0	732.1	822.9	797.6	645.8	593.7	492.6
85°	836.3	693.4	444.9	447.9	440.5	541.7	532.7	421.1	358.6	328.9
87.5°	334.8	258.9	166.7	181.5	172.6	250.0	254.5	199.4	122.0	105.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)