

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: P622852

Luminaire Tested: **PRV-M-PA6D-740-U-T4W**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-12)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6D-740-U-T4W
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67240 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

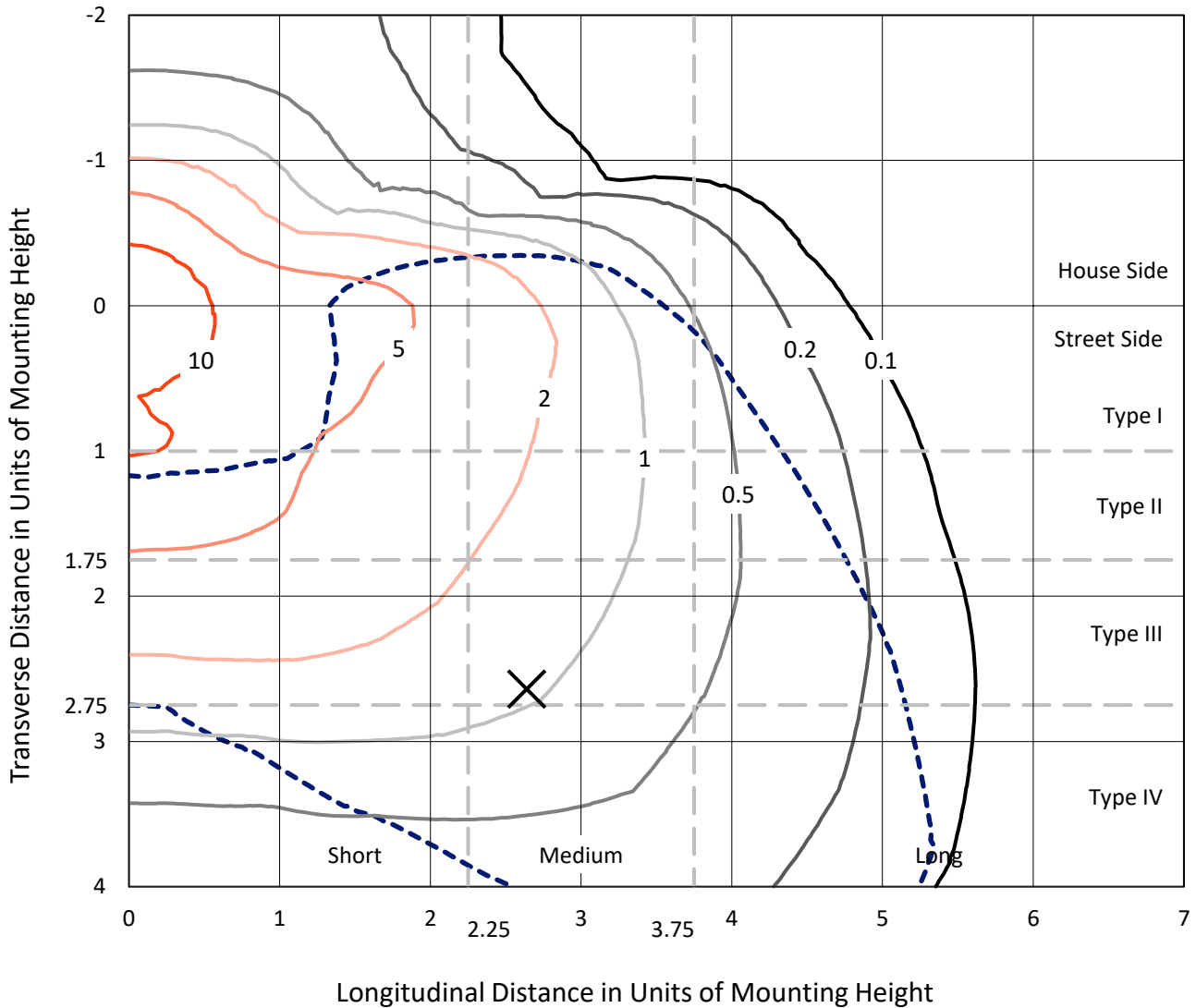
Input Watts (W): 544
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

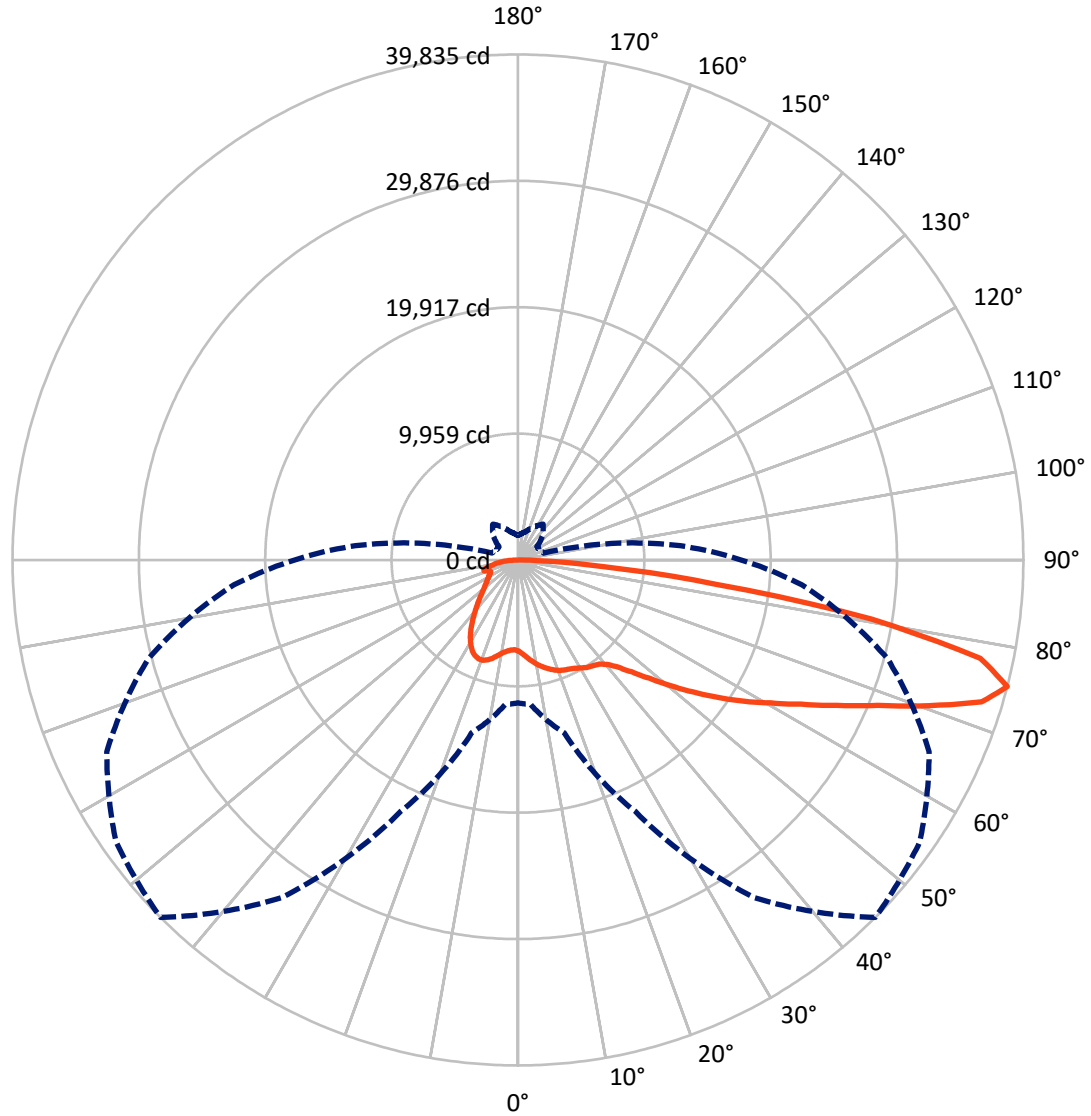
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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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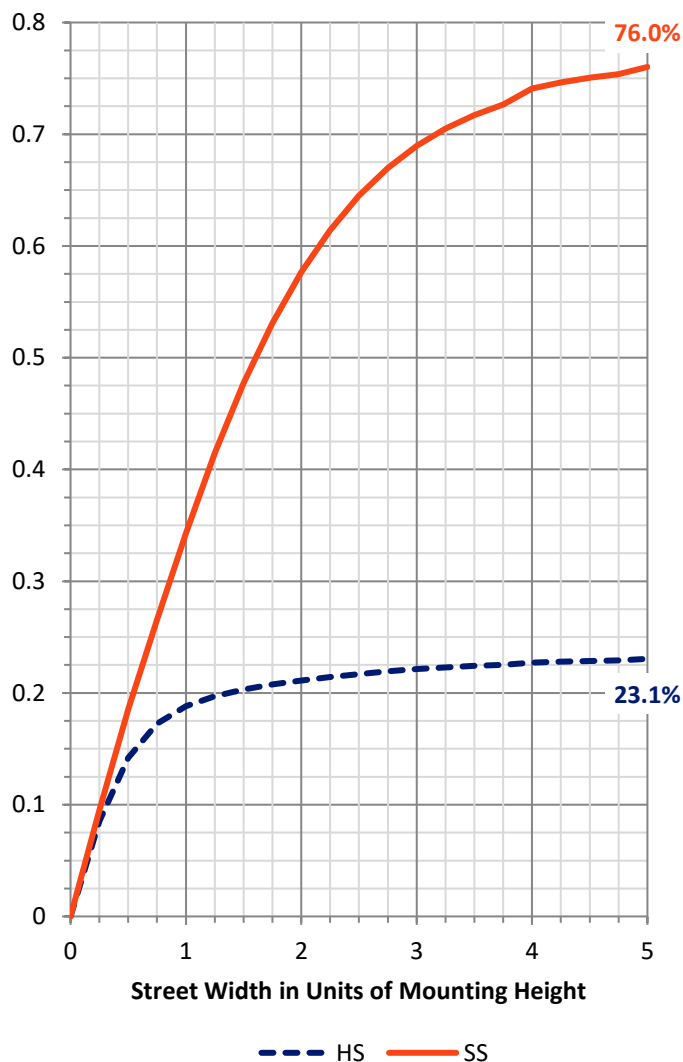
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15822.8	0.0	15822.8
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	51417.2	0.0	51417.2
	% Fixture	76.5	0.0	76.5
Total	Lumens	67240.0	0.0	67240.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.0	1.1
10°-20°	2394.9	3.6
20°-30°	4121.8	6.1
30°-40°	5679.2	8.4
40°-50°	7911.6	11.8
50°-60°	11844.7	17.6
60°-70°	16789.0	25.0
70°-80°	15098.5	22.5
80°-90°	2676.3	4.0
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°	67240.0	100.0
0°-180°	67240.0	100.0

Coefficient of Utilization



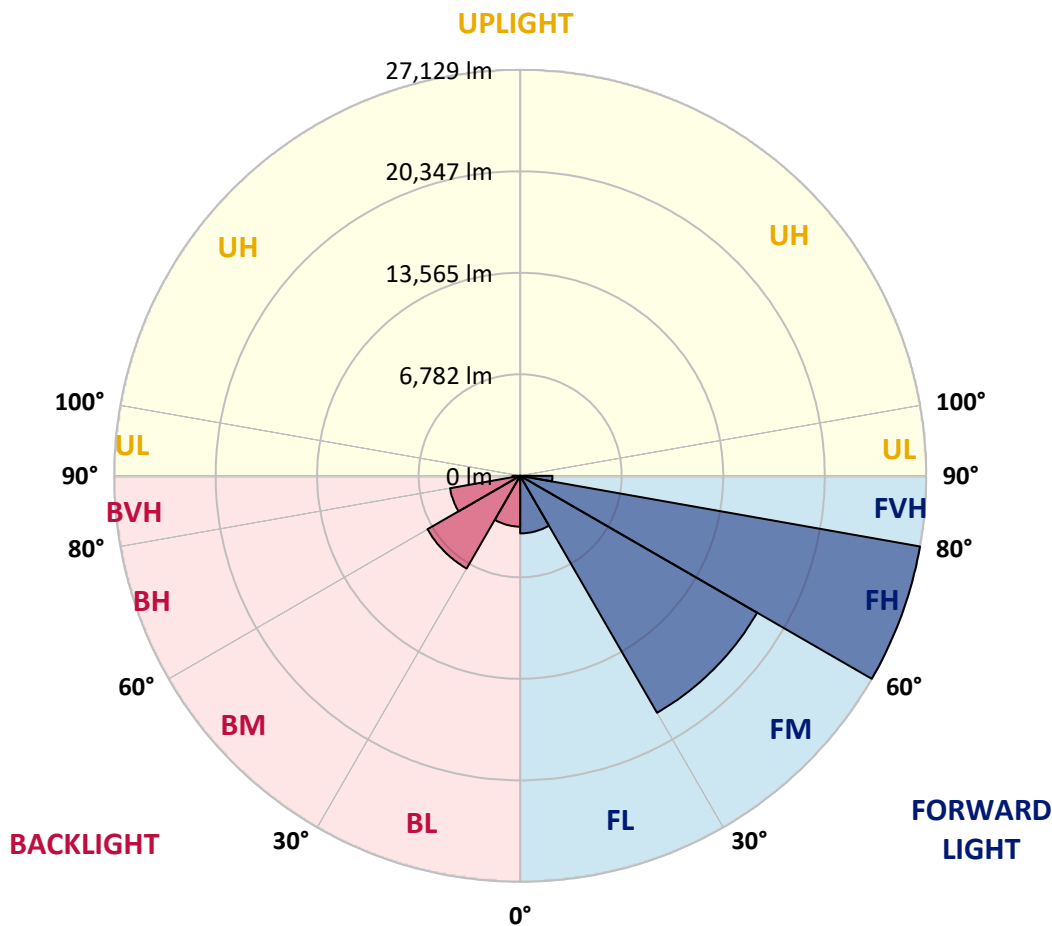
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3846.0	5.7			
FM (30°-60°)	18284.9	27.2			
FH (60°-80°)	27129.5	40.3			G5
FVH (80°-90°)	2156.9	3.2			G5
BL (0°-30°)	3394.8	5.0	B4/5000		
BM (30°-60°)	7150.7	10.6	B4/8500		
BH (60°-80°)	4758.0	7.1	B4/5000		G4/5000
BVH (80°-90°)	519.4	0.8			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7181.4	7181.4	7181.4	7181.4	7181.4	7181.4	7181.4	7181.4	7181.4	7181.4	7181.4
2.5°	7584.5	7564.9	7553.5	7493.1	7447.4	7421.3	7359.3	7313.6	7250.0	7201.0	7186.3
5°	8116.5	8078.9	8047.9	7946.7	7839.1	7733.0	7582.9	7452.3	7310.4	7202.7	7166.8
7.5°	8638.6	8609.3	8545.6	8390.6	8230.7	8057.7	7840.7	7648.1	7447.4	7297.3	7240.2
10°	9097.2	9059.6	8950.3	8774.1	8566.8	8377.5	8132.8	7912.5	7680.8	7498.0	7424.6
12.5°	9492.0	9436.6	9297.9	9079.2	8832.8	8638.6	8408.5	8206.2	7951.6	7739.5	7651.4
15°	9821.7	9758.0	9614.4	9330.5	9053.1	8891.5	8690.8	8499.9	8237.2	7990.8	7891.3
17.5°	10061.5	10006.1	9844.5	9511.6	9231.0	9106.9	8945.4	8775.7	8519.5	8247.0	8152.4
20°	10152.9	10086.0	9945.7	9601.4	9351.7	9294.6	9170.6	9027.0	8787.1	8517.9	8415.1
22.5°	10071.3	10015.8	9903.2	9588.3	9402.3	9410.5	9335.4	9239.1	9033.5	8767.5	8679.4
25°	9948.9	9890.2	9805.3	9537.7	9439.8	9513.3	9485.5	9438.2	9286.4	9030.2	8940.5
27.5°	9900.0	9831.5	9766.2	9541.0	9516.5	9661.7	9673.2	9674.8	9547.5	9288.1	9221.2
30°	10041.9	9965.3	9873.9	9637.3	9655.2	9869.0	9939.1	9906.5	9769.4	9536.1	9477.4
32.5°	10474.4	10392.8	10228.0	9867.3	9824.9	10086.0	10170.9	10074.6	9945.7	9759.7	9736.8
35°	11448.5	11322.9	10993.3	10347.1	10045.2	10219.8	10338.9	10268.8	10164.3	10053.4	10079.5
37.5°	13041.2	12868.2	12337.9	11229.9	10461.3	10409.1	10575.5	10577.2	10480.9	10435.2	10505.4
40°	14916.1	14734.9	14183.4	12649.5	11269.0	10808.9	10960.6	11039.0	10952.5	10983.5	11086.3
42.5°	16738.8	16551.1	16156.2	14429.8	12357.4	11526.9	11556.2	11748.8	11662.3	11766.7	11947.9
45°	18199.2	18040.9	17882.6	16156.2	13863.6	12581.0	12370.5	12709.9	12678.9	12882.9	13135.8
47.5°	19230.5	19067.3	19086.9	17797.8	15658.5	13927.2	13418.1	13981.1	13999.0	14447.7	14726.8
50°	20061.1	19902.8	19955.0	19192.9	17464.9	15544.3	14739.8	15482.3	15774.4	16454.8	16789.3
52.5°	21001.0	20865.5	20979.7	20462.5	19367.5	17295.2	16277.0	17296.8	17750.5	18819.3	19160.3
55°	22060.0	21942.5	22303.1	21986.5	21422.0	19129.3	17985.4	19351.2	19917.5	21567.2	22001.2
57.5°	22910.1	22784.5	23546.5	23854.9	23605.3	21012.4	19881.6	21488.9	22063.2	24633.3	25052.7
60°	23890.8	23709.7	24664.3	25623.8	25914.2	22864.4	22015.9	23835.4	24395.1	27958.8	28082.9
62.5°	24488.1	24349.4	25633.6	27200.1	27986.6	25031.4	24455.4	26173.7	26779.1	31397.0	30801.4
65°	23655.9	23724.4	26167.2	28459.8	29866.4	27632.5	27139.7	28652.4	29272.4	34464.7	32632.3
67.5°	21939.2	22069.8	25555.2	29283.9	31788.6	30600.7	29965.9	31263.2	31687.5	36263.0	32940.7
70°	19912.6	20031.7	23593.8	29440.5	33588.5	34384.8	33441.6	34094.3	33554.2	35600.5	30688.8
72.5°	16872.6	17189.1	19938.7	27415.5	34370.1	38221.1	37181.6	36269.5	33448.1	31047.8	25315.4
75°	11265.8	11424.1	14106.7	21865.8	32483.8	39834.9	38676.4	35752.2	30169.9	22448.3	17605.2
77.5°	4978.5	5474.6	7333.2	12819.2	25380.6	37261.6	35486.2	29944.7	20924.3	12336.2	8743.1
80°	1824.3	1930.4	2862.1	5304.9	14721.9	28216.7	25739.6	19095.0	10577.2	4681.6	3266.8
82.5°	1019.9	1068.8	1556.7	2428.1	6608.7	15746.6	14320.5	8233.9	3647.0	1538.8	1372.3
85°	563.0	587.4	954.6	1524.1	3213.0	6842.0	5451.8	2792.0	1476.8	616.8	584.2
87.5°	248.0	290.5	514.0	771.8	1465.3	1564.9	1356.0	1090.0	688.6	233.3	205.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7181.4	7181.4	7181.4	7181.4	7181.4	7181.4	7181.4	7181.4	7181.4	7181.4
2.5°	7170.0	7145.5	7130.9	7098.2	7078.6	7085.2	7088.4	7099.9	7119.4	7077.0
5°	7140.7	7106.4	7103.1	7103.1	7126.0	7161.9	7196.1	7223.9	7264.7	7210.8
7.5°	7204.3	7166.8	7168.4	7191.2	7236.9	7305.5	7380.5	7431.1	7489.9	7426.2
10°	7391.9	7346.3	7360.9	7378.9	7429.5	7509.4	7609.0	7697.1	7768.9	7721.6
12.5°	7620.4	7579.6	7589.4	7631.8	7693.8	7768.9	7860.3	7941.9	8012.0	7950.0
15°	7853.7	7835.8	7853.7	7922.3	7997.3	8033.2	8043.0	8082.2	8129.5	8077.3
17.5°	8127.9	8106.7	8126.2	8216.0	8233.9	8198.0	8126.2	8109.9	8137.7	8090.3
20°	8385.7	8375.9	8392.2	8437.9	8377.5	8247.0	8127.9	8080.6	8116.5	8069.1
22.5°	8663.1	8607.6	8591.3	8539.1	8372.6	8207.8	8080.6	8038.1	8090.3	8056.1
25°	8932.3	8800.2	8677.8	8478.7	8232.3	8085.5	7989.2	7951.6	8003.9	7989.2
27.5°	9183.6	8953.6	8654.9	8248.6	7974.5	7847.2	7804.8	7793.4	7860.3	7852.1
30°	9443.1	9075.9	8508.1	7897.8	7561.6	7462.1	7524.1	7599.2	7680.8	7695.5
32.5°	9704.2	9162.4	8251.9	7445.8	7080.3	6993.8	7166.8	7338.1	7449.1	7488.2
35°	10017.5	9224.4	7904.3	6915.5	6509.2	6486.3	6696.8	6920.4	7077.0	7106.4
37.5°	10404.2	9260.3	7478.4	6355.8	5915.2	5902.1	6094.7	6298.7	6430.8	6497.7
40°	10941.1	9266.9	6936.7	5732.4	5321.2	5303.3	5380.0	5489.3	5559.5	5634.5
42.5°	11703.1	9244.0	6383.5	5102.6	4805.6	4735.4	4702.8	4683.2	4572.2	4593.4
45°	12742.5	9216.3	5802.6	4554.3	4325.8	4172.5	4072.9	3927.7	3709.0	3705.8
47.5°	14070.8	9252.2	5283.7	4081.1	3914.6	3743.3	3549.1	3322.3	3085.7	3072.6
50°	15630.8	9403.9	4758.3	3673.1	3558.9	3394.1	3172.2	2901.3	2674.5	2653.3
52.5°	17417.6	9580.2	4236.1	3319.0	3286.4	3129.7	2886.6	2612.5	2434.6	2408.5
55°	19522.6	9896.7	3740.0	3025.3	3056.3	2919.2	2677.7	2423.2	2274.7	2260.0
57.5°	21780.9	10182.3	3281.5	2788.7	2860.5	2761.0	2537.4	2305.7	2194.7	2167.0
60°	24200.9	9917.9	2935.6	2584.7	2690.8	2640.2	2418.3	2196.4	2136.0	2121.3
62.5°	26222.6	8837.7	2659.8	2410.1	2545.6	2537.4	2326.9	2149.0	2136.0	2126.2
65°	27281.7	7057.4	2464.0	2263.3	2428.1	2441.1	2312.2	2167.0	2198.0	2209.4
67.5°	26816.6	5125.4	2331.8	2144.2	2330.2	2571.7	2695.7	2625.5	2628.8	2619.0
70°	24463.6	3609.5	2209.4	2051.1	2462.3	3273.3	3248.9	2886.6	2718.5	2622.3
72.5°	19840.8	2671.2	2070.7	1982.6	2813.2	3655.2	3195.0	2615.7	2356.3	2271.4
75°	12853.5	2114.8	1871.6	1824.3	2754.4	3446.3	2827.9	2300.8	2029.9	1946.7
77.5°	5900.5	1705.2	1620.4	1538.8	2322.0	2973.1	2382.4	1935.3	1705.2	1679.1
80°	2315.5	1408.2	1310.3	1248.3	1901.0	2566.8	2091.9	1692.2	1484.9	1440.9
82.5°	1156.9	1112.9	1013.3	949.7	1612.2	2317.1	1847.2	1458.8	1276.0	1196.1
85°	623.3	744.1	706.6	633.1	1137.3	1723.2	1346.2	1021.5	846.9	838.7
87.5°	308.4	339.4	285.6	301.9	582.5	925.2	830.6	641.3	484.6	507.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)