

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: McGRAW-EDISON

Report Number: P533236

Luminaire Tested: **GALN-SA8C-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35581 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

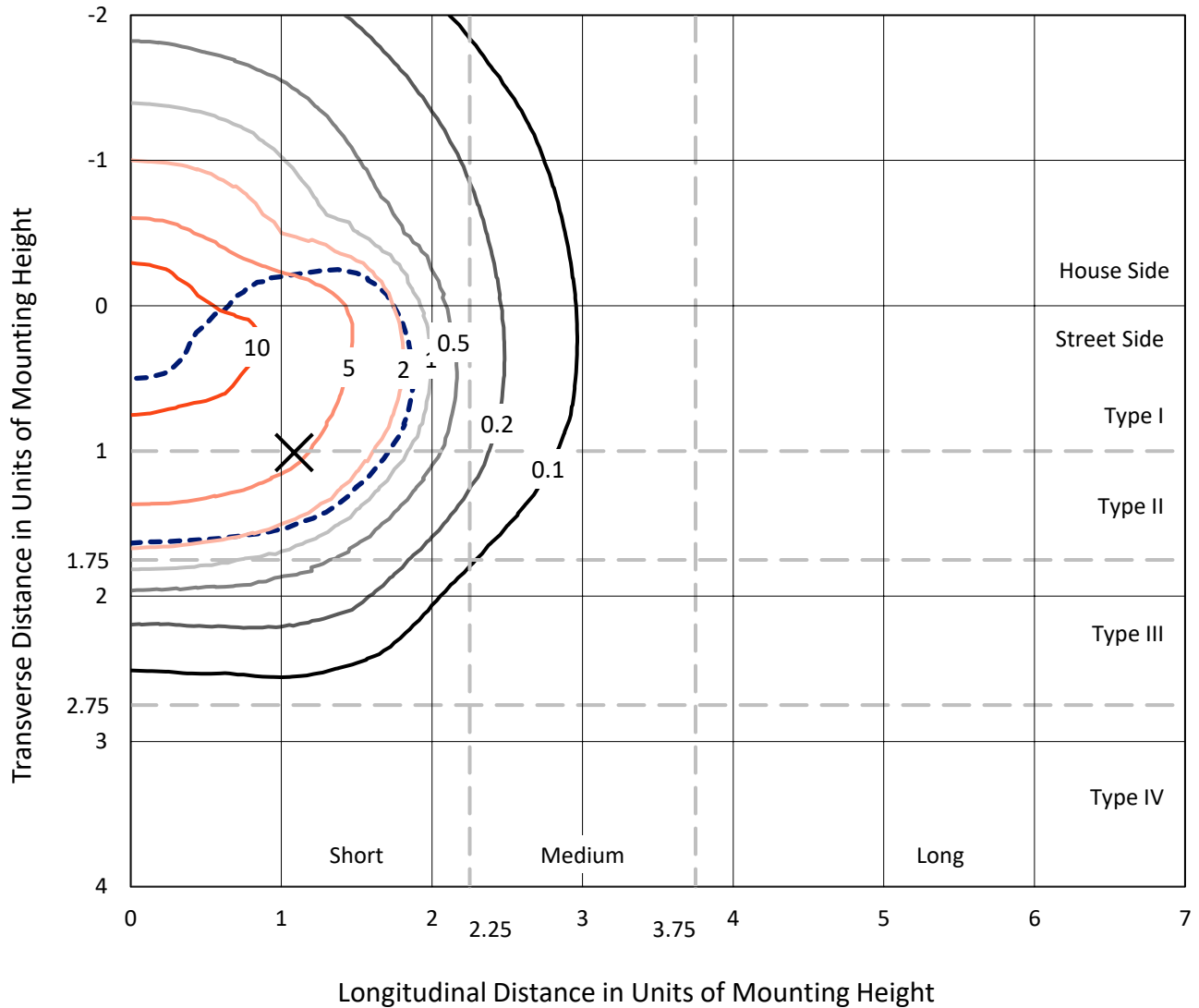
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

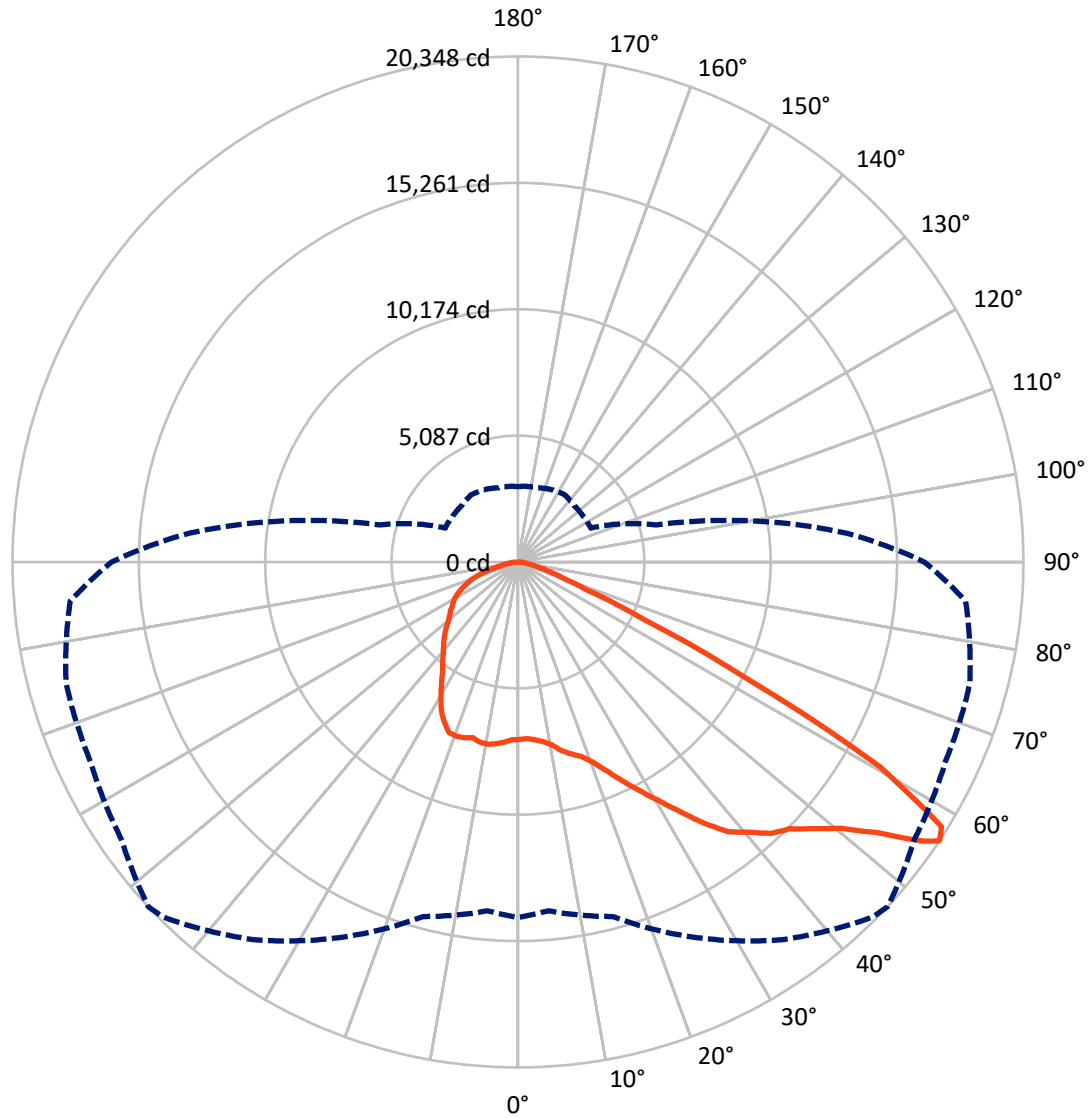
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11275.2	0.0	11275.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	24305.8	0.0	24305.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	35581.0	0.0	35581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.4	2.0
10°-20°	2196.8	6.2
20°-30°	3883.4	10.9
30°-40°	5832.7	16.4
40°-50°	8004.8	22.5
50°-60°	9536.6	26.8
60°-70°	4081.1	11.5
70°-80°	1154.9	3.2
80°-90°	194.4	0.5
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°	35581.0	100.0
0°-180°	35581.0	100.0

Coefficient of Utilization

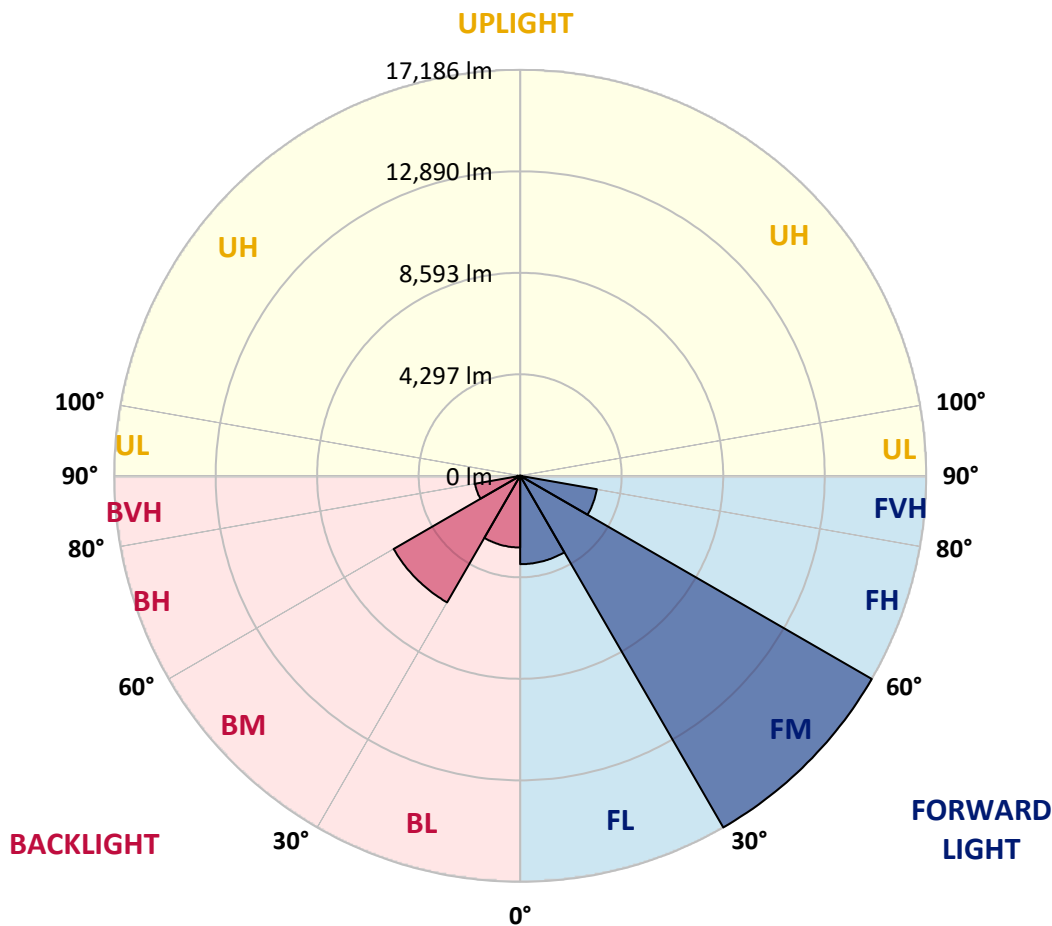


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3740.8	10.5			
FM (30°-60°)	17186.4	48.3			
FH (60°-80°)	3296.1	9.3			G2/5000
FVH (80°-90°)	82.5	0.2			G1/100
BL (0°-30°)	3035.7	8.5	B4/5000		
BM (30°-60°)	6187.6	17.4	B4/8500		
BH (60°-80°)	1940.0	5.5	B3/2500		G3/2500
BVH (80°-90°)	111.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1
2.5°	7119.9	7106.3	7097.2	7169.8	7142.6	7147.1	7119.9	7147.1	7165.3	7124.5	7183.4
5°	7106.3	7147.1	7110.8	7133.5	7192.5	7174.4	7192.5	7247.0	7233.4	7219.7	7201.6
7.5°	7233.4	7237.9	7265.1	7274.2	7292.4	7274.2	7301.4	7351.3	7337.7	7260.6	7269.7
10°	7414.9	7424.0	7428.5	7478.4	7510.2	7514.7	7482.9	7437.6	7433.0	7537.4	7464.8
12.5°	7623.6	7600.9	7655.4	7673.5	7709.8	7750.7	7791.5	7696.2	7755.2	7759.8	7673.5
15°	7927.7	7950.3	7886.8	7886.8	7900.4	7905.0	8018.4	7973.0	7964.0	7914.0	7950.3
17.5°	8381.4	8227.2	8222.6	8159.1	8150.0	8186.3	8227.2	8263.5	8386.0	8286.1	8091.0
20°	8712.7	8749.0	8617.4	8540.3	8553.9	8635.6	8594.7	8758.1	8844.3	8680.9	8490.4
22.5°	9298.1	9175.6	9207.3	9034.9	9048.5	9134.7	9130.2	9298.1	9348.0	9089.3	8812.5
25°	9692.9	9661.1	9688.3	9552.2	9570.4	9638.4	9747.3	10024.2	9942.5	9656.6	9016.7
27.5°	10269.2	10205.7	10183.0	10133.1	10114.9	10296.4	10423.5	10718.4	10659.5	10242.0	9379.8
30°	10859.1	10818.3	10841.0	10636.8	10709.4	11095.1	11131.4	11535.3	11508.0	10772.9	9783.6
32.5°	11267.5	11290.2	11331.1	11217.6	11539.8	11848.4	11970.9	12429.2	12451.9	11685.0	10564.2
35°	11925.5	11848.4	11871.1	12002.7	12152.4	12715.1	12914.8	13218.8	13409.4	12642.5	11312.9
37.5°	12338.5	12420.1	12324.8	12533.6	12923.8	13600.0	13781.5	14094.6	14294.3	13586.4	12333.9
40°	12982.8	12851.2	12919.3	13069.1	13468.4	14348.7	14298.8	14621.0	14684.5	14389.6	13286.9
42.5°	13677.1	13613.6	13518.3	13858.6	14194.5	14834.3	14934.1	14784.4	15106.6	15174.6	14648.2
45°	14507.6	14584.7	14598.3	14607.4	14902.4	15460.5	15324.4	15192.8	15564.9	16059.5	15492.3
47.5°	15279.0	15034.0	15210.9	15456.0	15873.5	15878.0	16036.8	15723.7	16118.5	16558.7	16254.6
50°	15537.7	15419.7	15655.6	16118.5	16762.9	16831.0	16849.1	16404.4	16608.6	16958.0	16517.8
52.5°	15437.8	15397.0	16000.5	16717.5	17661.4	18006.3	18097.0	17547.9	17661.4	17502.6	17098.7
55°	14961.4	15083.9	15691.9	17153.1	18600.7	19667.1	19839.6	19145.3	18423.7	18546.3	18101.6
56°	14307.9	14094.6	14775.3	16658.5	18559.9	20207.1	20347.8	19481.1	18991.0	18832.2	18092.5
57.5°	12138.8	11862.0	12755.9	14988.6	17529.8	20002.9	20107.3	19621.7	18895.7	18573.5	16772.0
60°	7106.3	7242.4	8376.9	10337.3	13522.8	16399.9	16749.3	17103.2	16617.7	15174.6	12483.7
62.5°	3430.6	3344.4	4156.7	5926.5	8240.8	10468.9	10364.5	11358.3	11902.8	10782.0	7882.3
65°	1797.0	1787.9	2268.9	3235.5	4528.8	5499.9	5595.2	6130.7	6879.4	5554.4	4002.4
67.5°	1320.5	1356.8	1597.3	2273.5	2913.3	2972.3	2958.7	3226.4	3299.0	2790.8	2459.5
70°	1034.6	1052.8	1229.8	1728.9	2169.1	1942.2	1901.4	1933.1	2146.4	2237.2	2128.3
72.5°	748.7	766.9	916.6	1166.2	1356.8	1325.1	1352.3	1529.3	1792.5	1887.8	1774.3
75°	499.2	512.8	594.5	712.4	803.2	866.7	916.6	1120.9	1365.9	1420.4	1365.9
77.5°	344.9	358.5	412.9	503.7	512.8	553.6	571.8	667.1	816.8	884.9	848.6
80°	195.1	195.1	222.4	258.7	317.7	372.1	381.2	458.3	526.4	571.8	580.8
82.5°	90.8	95.3	118.0	158.8	208.7	258.7	267.7	317.7	367.6	412.9	426.6
85°	45.4	49.9	68.1	95.3	127.1	154.3	149.7	154.3	163.4	154.3	158.8
87.5°	13.6	13.6	18.2	22.7	18.2	22.7	22.7	27.2	31.8	36.3	40.8
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°	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1	7147.1
2.5°	7188.0	7201.6	7110.8	7197.1	7165.3	7160.8	7224.3	7215.2	7237.9	7228.8	7174.4
5°	7192.5	7160.8	7256.1	7169.8	7210.7	7296.9	7237.9	7374.0	7306.0	7351.3	7251.5
7.5°	7333.2	7342.3	7324.1	7360.4	7342.3	7383.1	7351.3	7383.1	7328.7	7333.2	7424.0
10°	7455.7	7428.5	7460.3	7414.9	7446.6	7433.0	7360.4	7337.7	7355.9	7333.2	7392.2
12.5°	7682.6	7632.7	7610.0	7555.5	7519.2	7383.1	7269.7	7206.1	7292.4	7306.0	7278.7
15°	7914.0	7918.6	7814.2	7691.7	7464.8	7260.6	7287.8	7310.5	7310.5	7346.8	7278.7
17.5°	8059.3	8059.3	7964.0	7718.9	7487.5	7369.5	7342.3	7269.7	7206.1	7197.1	7192.5
20°	8313.4	8236.2	8018.4	7714.4	7478.4	7424.0	7219.7	7047.3	6915.7	6870.3	6865.8
22.5°	8603.8	8408.7	8104.6	7723.5	7464.8	7387.6	7006.5	6747.8	6511.8	6412.0	6425.6
25°	8871.5	8558.4	8154.5	7682.6	7414.9	7042.8	6616.2	6257.7	6012.7	5931.0	5890.2
27.5°	9057.6	8717.2	8154.5	7718.9	7228.8	6657.1	6221.4	5763.1	5549.8	5495.4	5504.4
30°	9307.2	8916.9	8295.2	7641.8	6856.7	6157.9	5636.0	5336.5	5209.5	5164.1	5195.9
32.5°	9892.6	9438.8	8490.4	7455.7	6416.5	5658.7	5236.7	5068.8	4882.7	4792.0	4760.2
35°	10527.9	9933.4	8680.9	7142.6	5921.9	5204.9	4941.7	4787.5	4565.1	4465.3	4483.4
37.5°	11426.4	10568.7	8694.6	6625.3	5386.4	4950.8	4710.3	4469.8	4288.3	4134.0	4088.6
40°	12638.0	11435.4	8662.8	6080.7	4955.4	4651.3	4474.3	4174.8	3970.6	3861.7	3884.4
42.5°	13704.4	12451.9	8531.2	5463.6	4565.1	4447.1	4247.4	3952.5	3752.8	3639.4	3630.3
45°	14602.9	13200.7	8281.6	4937.2	4238.4	4220.2	3988.8	3761.9	3603.1	3498.7	3544.1
47.5°	15433.3	13804.2	7905.0	4410.8	3938.9	3975.2	3752.8	3612.1	3512.3	3417.0	3412.5
50°	15732.8	13795.1	7573.7	3975.2	3698.4	3680.2	3671.1	3521.4	3417.0	3335.3	3371.6
52.5°	16232.0	13949.4	7215.2	3675.7	3480.5	3485.1	3516.8	3407.9	3290.0	3240.0	3285.4
55°	16948.9	13972.1	6425.6	3326.3	3299.0	3330.8	3330.8	3258.2	3158.4	3117.5	3094.8
56°	16363.6	13296.0	5763.1	3235.5	3208.3	3208.3	3294.5	3212.8	3090.3	3058.5	3031.3
57.5°	15092.9	11648.7	4823.8	3126.6	3085.8	3149.3	3194.7	3108.4	2995.0	2949.6	2976.8
60°	10409.9	7882.3	3625.8	2890.6	2890.6	2995.0	3031.3	2904.2	2854.3	2849.8	2813.5
62.5°	6076.2	4592.3	2836.2	2677.3	2686.4	2772.6	2799.9	2727.3	2663.7	2740.9	2777.2
65°	3221.9	2740.9	2432.3	2450.4	2455.0	2523.1	2641.0	2636.5	2632.0	2654.7	2659.2
67.5°	2332.5	2278.0	2209.9	2191.8	2200.9	2250.8	2368.8	2459.5	2455.0	2400.5	2359.7
70°	2078.3	2001.2	1960.4	1964.9	1928.6	1987.6	2082.9	2141.9	2037.5	1974.0	1946.7
72.5°	1728.9	1706.2	1679.0	1683.5	1610.9	1597.3	1488.4	1488.4	1461.2	1443.0	1474.8
75°	1320.5	1311.4	1325.1	1302.4	1225.2	1143.5	1080.0	1021.0	930.3	894.0	875.8
77.5°	835.0	862.2	894.0	844.0	812.3	753.3	689.8	630.8	558.2	517.3	517.3
80°	567.2	589.9	612.6	603.5	567.2	512.8	462.9	399.3	349.4	317.7	313.1
82.5°	431.1	449.2	481.0	444.7	408.4	363.0	322.2	276.8	231.4	195.1	195.1
85°	154.3	177.0	195.1	213.3	226.9	231.4	199.7	163.4	131.6	104.4	99.8
87.5°	40.8	45.4	49.9	45.4	45.4	45.4	49.9	45.4	40.8	31.8	31.8
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)