

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: P533076

Luminaire Tested: **GALN-SA8C-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39824 lumens
Efficiency: N/A
Efficacy: 92.8 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

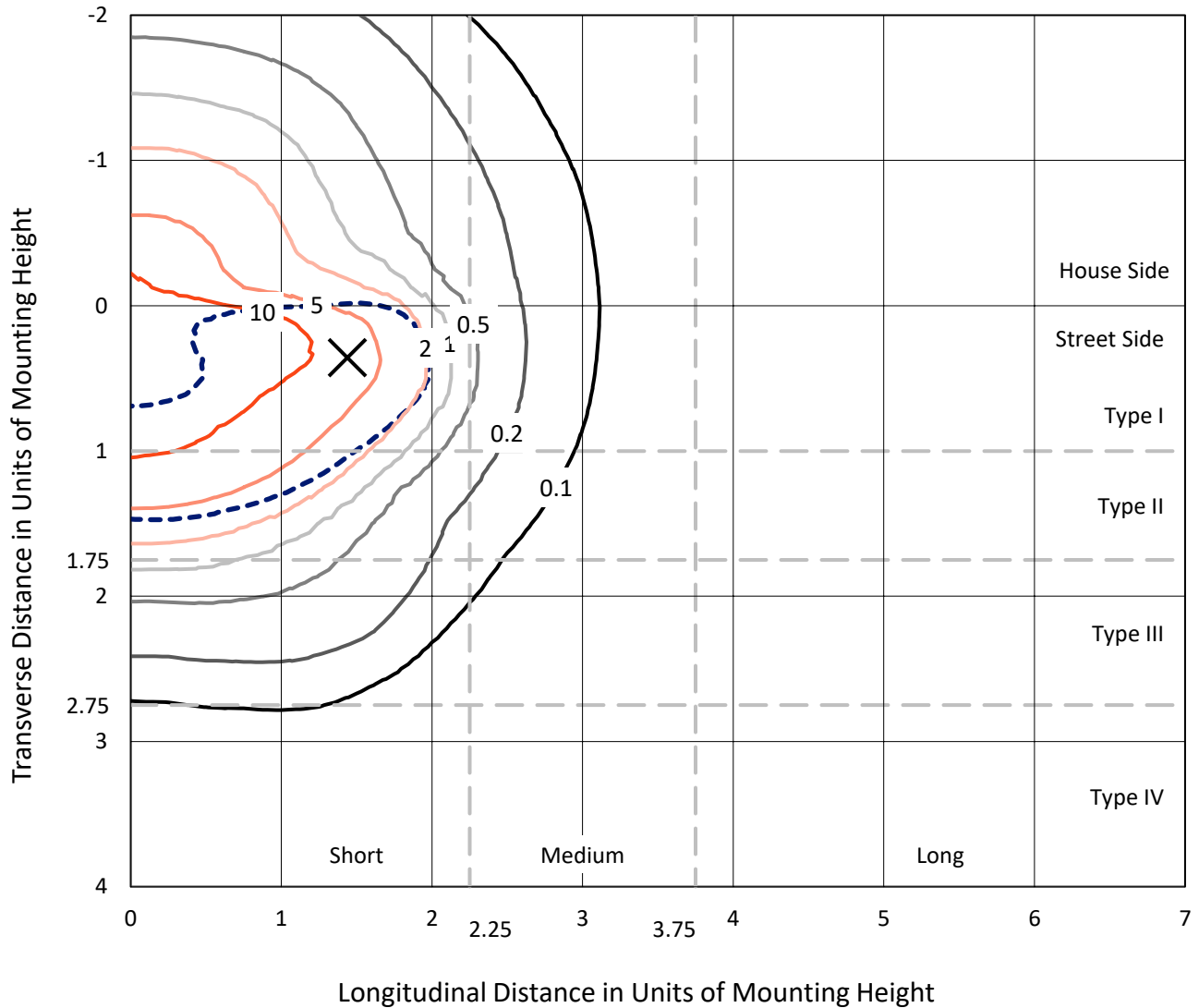
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

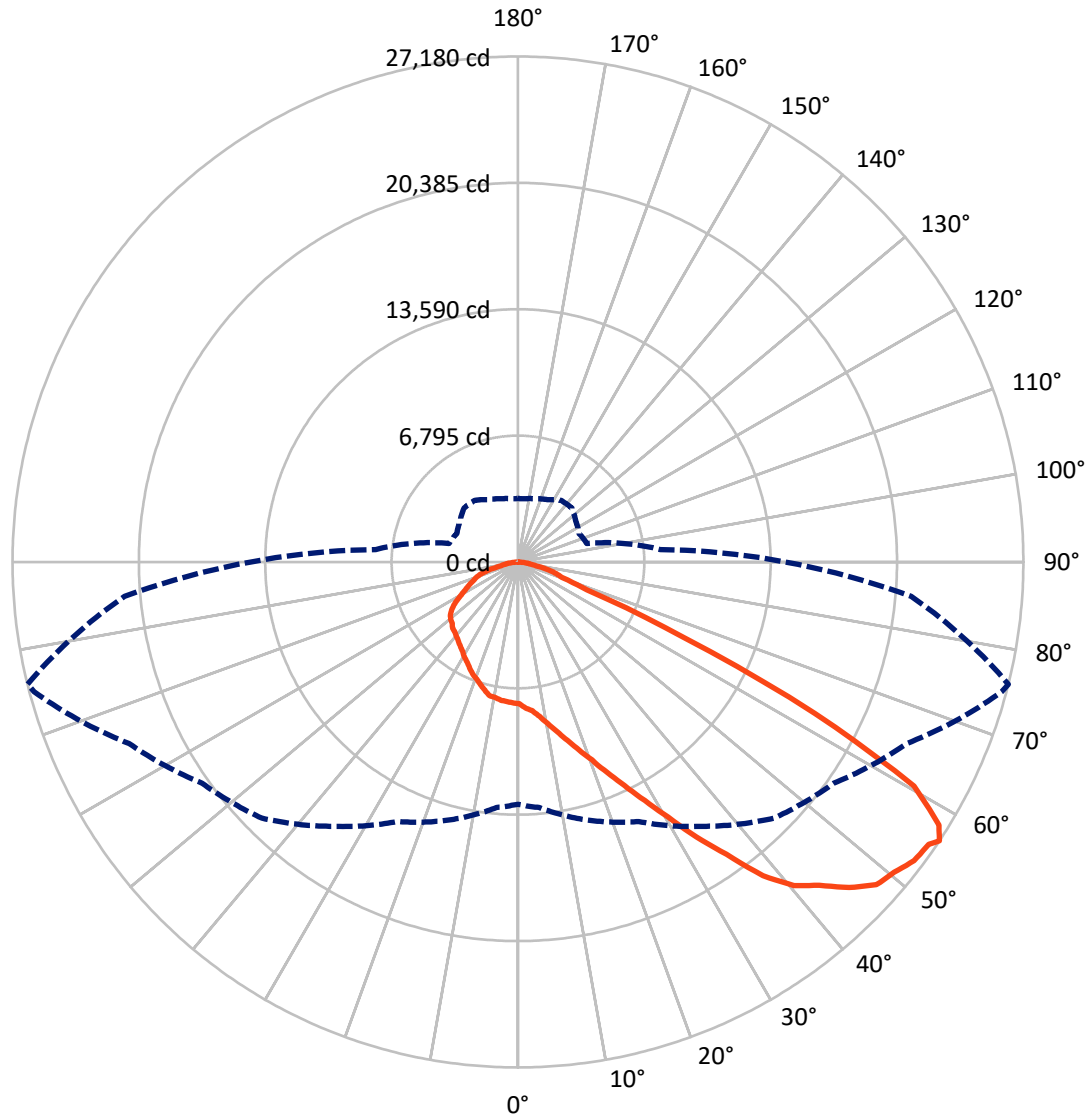
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10707.5	0.0	10707.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	29116.5	0.0	29116.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	39824.0	0.0	39824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.7	1.9
10°-20°	2373.7	6.0
20°-30°	4151.4	10.4
30°-40°	6499.9	16.3
40°-50°	9455.5	23.7
50°-60°	10392.1	26.1
60°-70°	4638.6	11.6
70°-80°	1339.8	3.4
80°-90°	217.3	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°	39824.0	100.0
0°-180°	39824.0	100.0

Coefficient of Utilization



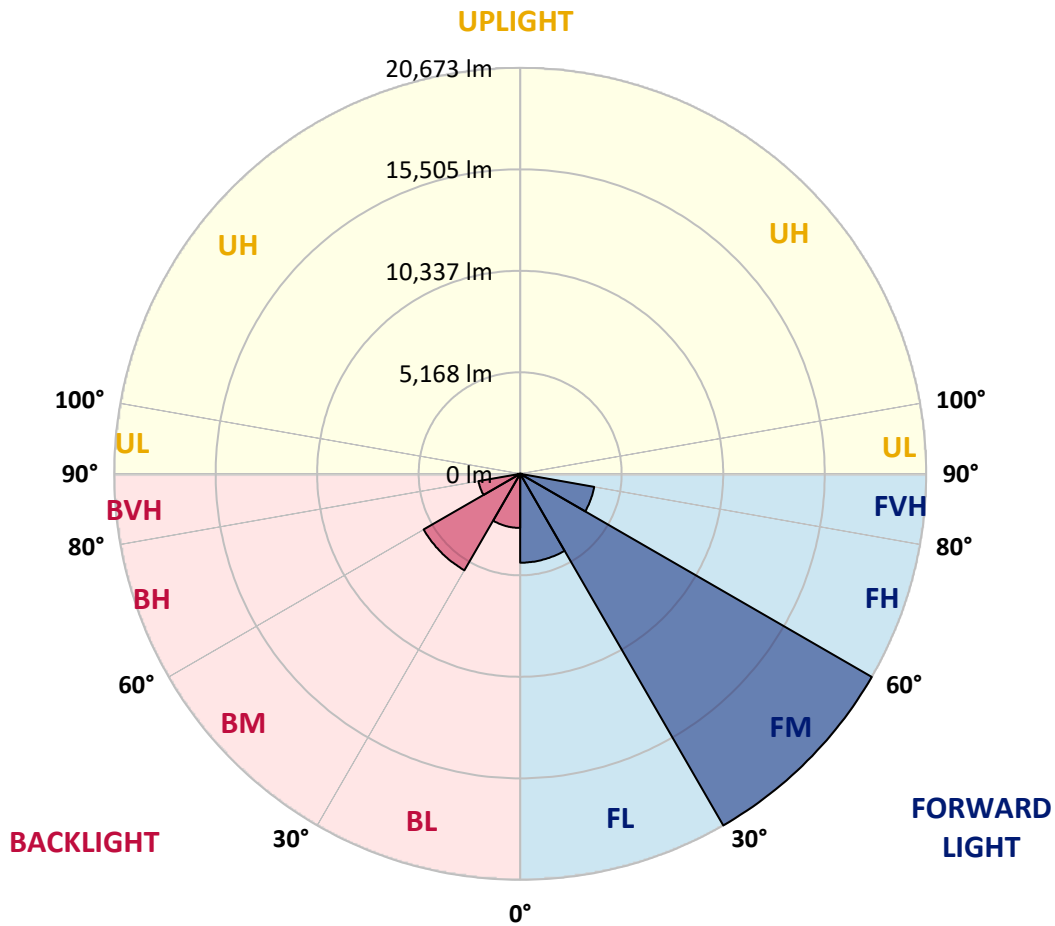
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4525.6	11.4			
FM (30°-60°)	20673.4	51.9			
FH (60°-80°)	3824.0	9.6			G2/5000
FVH (80°-90°)	93.5	0.2			G1/100
BL (0°-30°)	2755.2	6.9	B4/5000		
BM (30°-60°)	5674.1	14.2	B4/8500		
BH (60°-80°)	2154.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	123.8	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°	55°	65°	75°	76°	85°
0°	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8
2.5°	8394.2	8260.0	8249.6	8213.5	8234.1	8141.2	8043.1	7914.1	7779.8	7862.4	7666.3
5°	8982.7	8802.0	8874.3	8750.4	8765.9	8642.0	8440.6	8290.9	8125.7	8027.6	7888.3
7.5°	9189.2	9204.7	9256.3	9235.7	9132.4	9132.4	8998.2	8734.9	8445.8	8389.0	8156.7
10°	9468.0	9473.1	9416.4	9431.8	9576.4	9509.3	9390.5	9277.0	8905.3	8838.2	8425.2
12.5°	9566.1	9473.1	9566.1	9648.7	9819.0	9911.9	9886.1	9803.5	9406.0	9359.6	8755.6
15°	9581.6	9524.8	9602.2	9788.0	9937.8	10330.1	10526.3	10469.5	9942.9	9948.1	9127.3
17.5°	9509.3	9586.7	9617.7	9777.7	10123.6	10490.1	11058.0	11135.5	10701.8	10634.7	9597.0
20°	9607.4	9550.6	9591.9	9736.4	10195.9	10768.9	11512.3	12023.4	11414.2	11367.8	10082.3
22.5°	9984.2	9906.8	9896.5	9989.4	10319.8	10913.5	11992.4	12911.3	12281.5	12307.3	10686.3
25°	10278.5	10319.8	10283.6	10278.5	10485.0	11130.3	12627.4	13969.7	13458.6	13308.9	11398.7
27.5°	10784.4	10882.5	10810.2	10908.3	10861.8	11455.5	13081.7	15141.5	14728.5	14527.2	12044.1
30°	11486.5	11538.1	11471.0	11471.0	11331.6	11909.8	13494.7	16365.0	16194.7	15921.1	12802.9
32.5°	12410.6	12488.0	12353.8	12276.4	12255.7	12586.1	14238.1	17573.1	17862.2	17629.8	13809.6
35°	13634.1	13587.6	13427.6	13355.3	13076.5	13623.8	15342.9	18961.8	19720.6	19307.7	15028.0
37.5°	14713.0	14640.8	14630.5	14227.8	14294.9	14744.0	16282.4	20014.9	21522.4	21403.6	16313.4
40°	15719.7	15786.8	15895.3	15668.1	15564.9	16060.5	17376.9	20820.3	22921.4	22874.9	17304.6
42.5°	16798.7	16736.7	16927.8	16736.7	16581.9	17284.0	18564.3	21377.8	24150.1	23768.0	18342.3
45°	18362.9	18166.7	18233.9	18249.3	18135.8	18393.9	19054.7	21780.5	25012.2	24970.9	19101.2
47.5°	19669.0	19674.2	19560.6	19472.9	19127.0	19385.1	19601.9	22033.4	26003.4	25936.3	19395.4
50°	20154.3	20087.2	20417.6	20608.6	20629.2	20102.7	20030.4	22172.8	26524.8	26230.5	19689.7
52.5°	18409.4	18471.3	18992.7	20128.5	20784.1	20840.9	20531.2	22461.9	26736.5	26674.5	19927.1
55°	14816.3	15115.7	15972.7	17284.0	18837.9	20546.6	21073.2	22761.3	26850.0	26798.4	20980.3
56°	13024.9	13257.2	14372.3	15399.7	17351.1	19478.0	20732.5	23081.4	26937.8	27180.4	21228.1
57.5°	10485.0	10753.4	11553.6	12720.3	15022.8	17444.0	19792.9	22689.1	26597.1	26690.0	21408.8
60°	6556.3	6582.2	7542.4	8311.6	9932.6	12297.0	15105.4	19741.3	24614.7	24480.4	19230.2
62.5°	4300.3	4305.5	5178.0	5807.8	6546.0	7088.1	8889.8	13092.0	18161.6	17924.1	13690.9
65°	3020.0	3087.2	3763.4	4604.9	4904.3	4620.4	4563.6	6902.2	10144.3	9803.5	7356.5
67.5°	2209.5	2214.7	2813.5	3717.0	4150.6	3515.6	2854.8	3371.1	4016.4	4006.1	3407.2
70°	1461.0	1522.9	1982.4	2777.4	3273.0	2823.9	2333.4	2410.9	2555.4	2555.4	2534.8
72.5°	851.8	908.6	1213.2	1760.4	1837.8	1765.6	1848.2	2065.0	2157.9	2152.8	2126.9
75°	485.3	511.1	578.2	733.1	913.8	1079.0	1357.7	1564.2	1657.2	1713.9	1646.8
77.5°	283.9	299.4	340.7	418.2	474.9	583.4	738.2	882.8	1006.7	991.2	1001.5
80°	149.7	149.7	191.0	247.8	330.4	413.0	490.4	573.0	640.1	655.6	671.1
82.5°	87.8	92.9	123.9	180.7	237.5	294.3	376.9	433.6	495.6	500.8	511.1
85°	46.5	51.6	77.4	118.7	160.0	180.7	185.8	175.5	191.0	180.7	206.5
87.5°	15.5	15.5	25.8	20.6	20.6	25.8	31.0	31.0	41.3	41.3	41.3
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°	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8	7619.8
2.5°	7661.1	7661.1	7573.3	7408.1	7382.3	7315.2	7253.3	7248.1	7201.7	7160.4	7139.7
5°	7805.7	7645.6	7516.6	7366.8	7191.3	7108.7	7015.8	6912.6	6871.3	6912.6	6907.4
7.5°	7970.9	7836.6	7449.4	7170.7	6969.3	6886.7	6783.5	6675.1	6685.4	6685.4	6613.1
10°	8130.9	7950.2	7330.7	6974.5	6680.2	6618.3	6561.5	6602.8	6654.4	6664.8	6618.3
12.5°	8399.3	7991.5	7273.9	6778.3	6592.5	6458.3	6494.4	6608.0	6716.4	6685.4	6721.5
15°	8600.7	8027.6	7015.8	6577.0	6344.7	6406.6	6535.7	6613.1	6793.8	6773.2	6809.3
17.5°	8796.9	8048.3	6762.8	6308.5	6210.5	6380.8	6478.9	6700.9	6757.7	6881.6	6928.0
20°	9199.5	8089.6	6504.7	6143.3	6112.4	6308.5	6478.9	6582.2	6706.1	6814.5	6814.5
22.5°	9406.0	8068.9	6334.4	5926.5	6024.6	6148.5	6303.4	6478.9	6478.9	6582.2	6587.3
25°	9664.2	7986.3	6065.9	5823.3	5895.5	6014.3	6189.8	6127.9	6195.0	6195.0	6277.6
27.5°	9958.4	7810.8	5833.6	5637.4	5782.0	5911.0	5936.8	5895.5	5818.1	5807.8	5776.8
30°	10195.9	7594.0	5663.2	5575.5	5694.2	5766.5	5683.9	5596.1	5461.9	5451.6	5379.3
32.5°	10521.1	7325.6	5451.6	5420.6	5554.8	5560.0	5534.2	5399.9	5203.8	5121.2	5038.6
35°	11068.3	7170.7	5291.5	5338.0	5379.3	5363.8	5317.3	5172.8	4976.6	4940.5	4909.5
37.5°	11471.0	7057.1	5126.3	5183.1	5219.3	5239.9	5100.5	4940.5	4945.6	4873.4	4852.7
40°	11925.3	6984.8	4992.1	5017.9	5023.1	5090.2	4919.8	4842.4	4878.5	4832.1	4863.1
42.5°	12508.7	7005.5	4852.7	4832.1	4930.2	4904.3	4821.8	4718.5	4739.2	4599.8	4620.4
45°	12818.4	7144.9	4770.1	4677.2	4785.6	4780.5	4672.0	4574.0	4450.1	4181.6	4191.9
47.5°	13024.9	7181.0	4574.0	4512.0	4625.6	4692.7	4568.8	4341.6	4166.1	3975.1	3928.6
50°	13236.6	7248.1	4481.0	4352.0	4398.4	4558.5	4403.6	4186.8	4016.4	3846.0	3871.9
52.5°	13422.4	7377.2	4300.3	4109.3	4191.9	4367.5	4284.9	4021.6	3835.7	3696.3	3655.0
55°	14248.4	7666.3	3995.8	3748.0	3944.1	4166.1	4119.7	3799.6	3598.2	3526.0	3515.6
56°	14377.5	7676.6	3835.7	3624.1	3804.7	4099.0	4042.2	3701.5	3520.8	3407.2	3412.4
57.5°	14398.1	7552.7	3608.6	3510.5	3665.4	4000.9	3928.6	3624.1	3376.3	3273.0	3242.0
60°	12668.7	5895.5	3324.6	3262.7	3443.4	3701.5	3675.7	3412.4	3133.6	3014.9	3071.7
62.5°	8636.8	4321.0	3102.6	3092.3	3185.2	3438.2	3371.1	3133.6	2901.3	2823.9	2787.7
65°	5028.2	3278.2	2885.8	2844.5	2922.0	3056.2	3102.6	2854.8	2612.2	2560.6	2545.1
67.5°	2968.4	2710.3	2607.0	2539.9	2514.1	2596.7	2632.9	2488.3	2245.7	2173.4	2235.4
70°	2483.1	2410.9	2416.0	2302.5	2240.5	2183.7	2152.8	2023.7	1822.4	1729.4	1703.6
72.5°	2142.4	2111.5	2090.8	1987.6	1930.8	1801.7	1667.5	1538.4	1388.7	1311.3	1316.4
75°	1636.5	1626.2	1636.5	1584.9	1486.8	1383.5	1259.6	1094.4	980.9	882.8	903.4
77.5°	975.7	1006.7	1022.2	1001.5	960.2	867.3	789.9	681.4	573.0	495.6	485.3
80°	671.1	696.9	722.7	696.9	655.6	588.5	505.9	423.3	345.9	304.6	294.3
82.5°	511.1	536.9	552.4	526.6	474.9	402.7	345.9	289.1	227.1	185.8	175.5
85°	185.8	211.7	206.5	247.8	268.4	258.1	222.0	170.4	129.1	92.9	87.8
87.5°	51.6	46.5	51.6	51.6	51.6	46.5	41.3	41.3	41.3	25.8	20.6
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)