

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: P534250

Luminaire Tested: **GALN-SA9D-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534250
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-SA9D-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA 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: 50005 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G4

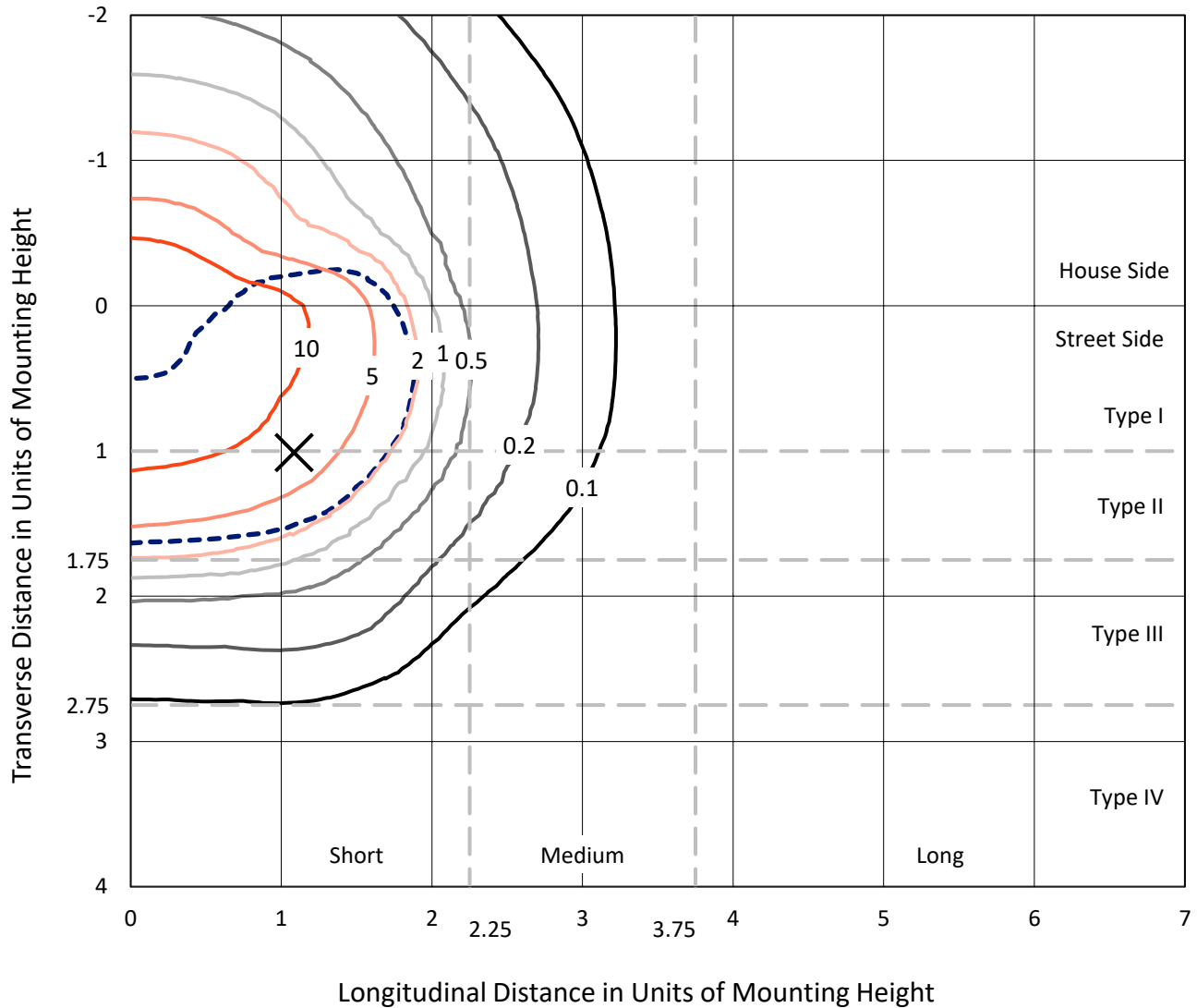
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

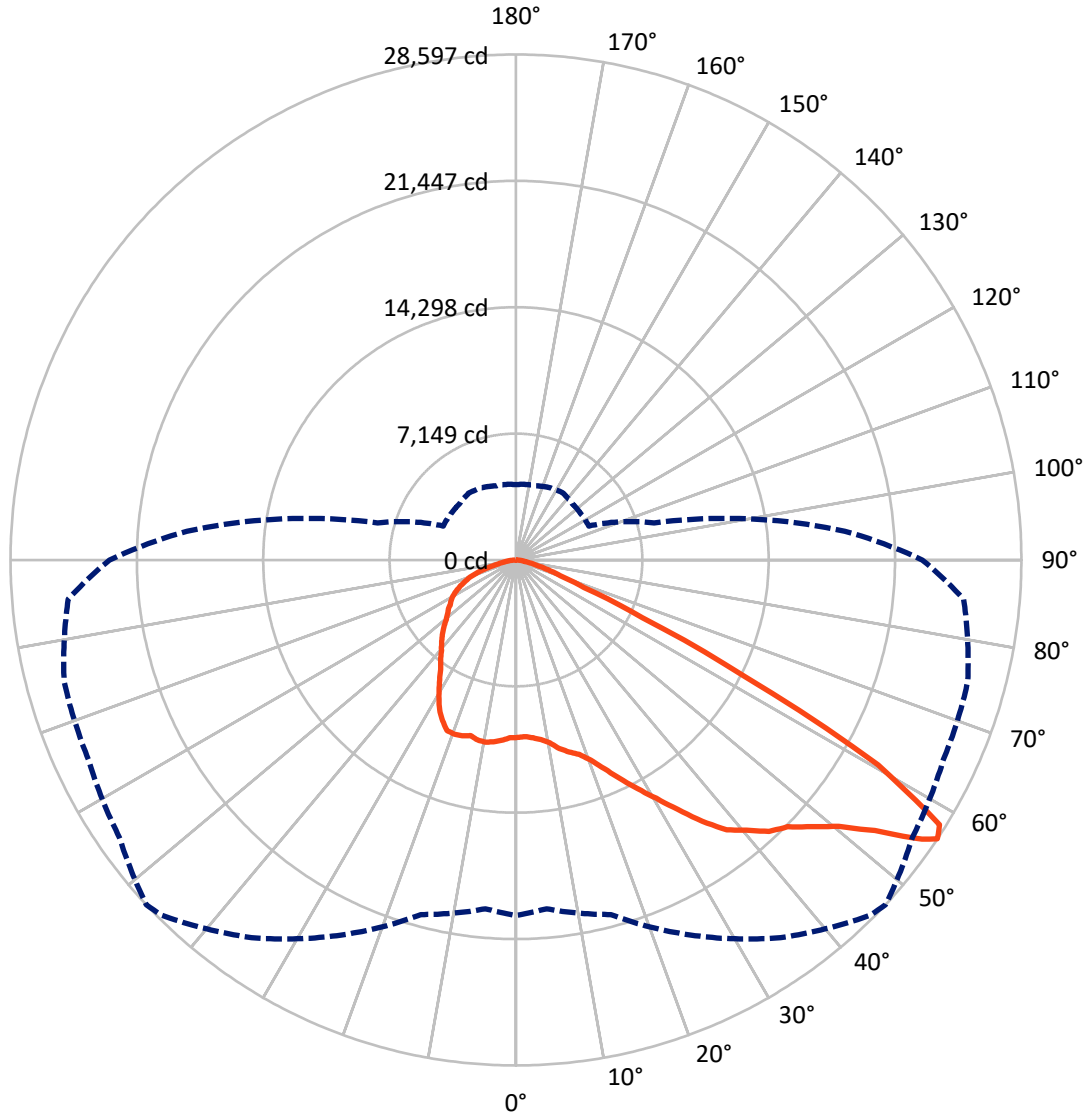
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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	15846.0	0.0	15846.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	34159.0	0.0	34159.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	50005.0	0.0	50005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	978.7	2.0
10°-20°	3087.3	6.2
20°-30°	5457.6	10.9
30°-40°	8197.1	16.4
40°-50°	11249.8	22.5
50°-60°	13402.6	26.8
60°-70°	5735.5	11.5
70°-80°	1623.1	3.2
80°-90°	273.1	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°	50005.0	100.0
0°-180°	50005.0	100.0

Coefficient of Utilization

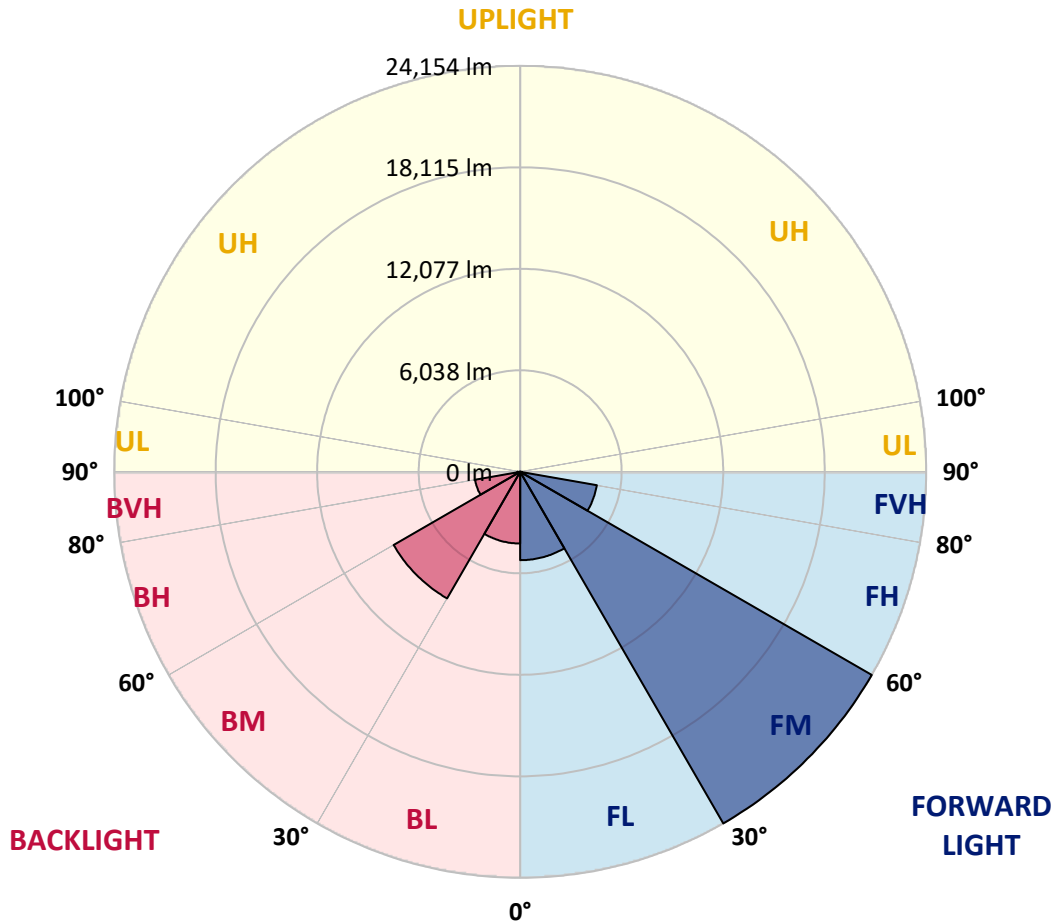


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5257.2	10.5			
FM (30°-60°)	24153.6	48.3			
FH (60°-80°)	4632.3	9.3			G2/5000
FVH (80°-90°)	115.9	0.2			G2/225
BL (0°-30°)	4266.4	8.5	B4/5000		
BM (30°-60°)	8696.0	17.4	B5		
BH (60°-80°)	2726.4	5.5	B4/5000		G4/5000
BVH (80°-90°)	157.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	10044.5	10044.5	10044.5	10044.5	10044.5	10044.5	10044.5	10044.5	10044.5	10044.5	10044.5
2.5°	10006.2	9987.1	9974.3	10076.4	10038.1	10044.5	10006.2	10044.5	10070.0	10012.6	10095.5
5°	9987.1	10044.5	9993.5	10025.4	10108.3	10082.7	10108.3	10184.8	10165.7	10146.5	10121.0
7.5°	10165.7	10172.0	10210.3	10223.1	10248.6	10223.1	10261.3	10331.5	10312.3	10203.9	10216.7
10°	10420.8	10433.5	10439.9	10510.0	10554.7	10561.1	10516.4	10452.6	10446.3	10592.9	10490.9
12.5°	10714.1	10682.2	10758.8	10784.3	10835.3	10892.7	10950.1	10816.2	10899.1	10905.4	10784.3
15°	11141.4	11173.3	11084.0	11084.0	11103.1	11109.5	11269.0	11205.2	11192.4	11122.3	11173.3
17.5°	11779.2	11562.3	11555.9	11466.7	11453.9	11504.9	11562.3	11613.3	11785.5	11645.2	11371.0
20°	12244.7	12295.7	12110.8	12002.4	12021.5	12136.3	12078.9	12308.5	12429.7	12200.1	11932.2
22.5°	13067.4	12895.2	12939.8	12697.5	12716.6	12837.8	12831.4	13067.4	13137.5	12774.0	12385.0
25°	13622.2	13577.6	13615.9	13424.5	13450.0	13545.7	13698.8	14087.8	13973.0	13571.2	12672.0
27.5°	14432.2	14342.9	14311.0	14240.8	14215.3	14470.4	14649.0	15063.5	14980.6	14393.9	13182.2
30°	15261.2	15203.8	15235.7	14948.7	15050.8	15592.9	15643.9	16211.5	16173.2	15140.1	13749.8
32.5°	15835.2	15867.1	15924.5	15765.1	16217.9	16651.5	16823.7	17467.8	17499.7	16421.9	14846.7
35°	16759.9	16651.5	16683.4	16868.4	17078.8	17869.6	18150.2	18577.5	18845.4	17767.6	15899.0
37.5°	17340.3	17455.1	17321.2	17614.5	18163.0	19113.2	19368.3	19808.4	20089.0	19094.1	17333.9
40°	18245.9	18060.9	18156.6	18367.1	18928.3	20165.5	20095.3	20548.1	20637.4	20222.9	18673.2
42.5°	19221.6	19132.4	18998.4	19476.7	19948.7	20847.9	20988.2	20777.7	21230.5	21326.2	20586.4
45°	20388.7	20497.1	20516.3	20529.0	20943.5	21728.0	21536.7	21351.7	21874.7	22569.8	21772.6
47.5°	21472.9	21128.5	21377.2	21721.6	22308.3	22314.7	22537.9	22097.9	22652.7	23271.3	22844.0
50°	21836.4	21670.6	22002.2	22652.7	23558.3	23654.0	23679.5	23054.5	23341.5	23832.5	23213.9
52.5°	21696.1	21638.7	22486.9	23494.5	24821.0	25305.7	25433.3	24661.6	24821.0	24597.8	24030.2
55°	21026.5	21198.6	22053.2	24106.8	26141.2	27639.9	27882.2	26906.5	25892.5	26064.6	25439.7
56°	20108.1	19808.4	20765.0	23411.6	26083.8	28398.8	28596.5	27378.4	26689.6	26466.4	25426.9
57.5°	17059.7	16670.7	17927.0	21064.7	24636.1	28111.8	28258.5	27576.1	26555.7	26102.9	23571.1
60°	9987.1	10178.4	11772.8	14527.8	19004.8	23048.1	23539.2	24036.6	23354.2	21326.2	17544.4
62.5°	4821.4	4700.2	5841.7	8329.0	11581.5	14712.8	14566.1	15962.8	16728.1	15152.8	11077.6
65°	2525.5	2512.7	3188.7	4547.1	6364.7	7729.5	7863.4	8615.9	9668.2	7806.0	5624.9
67.5°	1855.8	1906.9	2244.9	3195.1	4094.3	4177.2	4158.1	4534.4	4636.4	3922.1	3456.6
70°	1454.1	1479.6	1728.3	2429.8	3048.4	2729.5	2672.2	2716.8	3016.5	3144.1	2991.0
72.5°	1052.3	1077.8	1288.2	1639.0	1906.9	1862.2	1900.5	2149.2	2519.1	2653.0	2493.6
75°	701.5	720.7	835.4	1001.3	1128.8	1218.1	1288.2	1575.2	1919.6	1996.1	1919.6
77.5°	484.7	503.8	580.3	707.9	720.7	778.0	803.6	937.5	1147.9	1243.6	1192.6
80°	274.2	274.2	312.5	363.5	446.4	523.0	535.7	644.1	739.8	803.6	816.3
82.5°	127.5	133.9	165.8	223.2	293.4	363.5	376.3	446.4	516.6	580.3	599.5
85°	63.8	70.2	95.7	133.9	178.6	216.8	210.5	216.8	229.6	216.8	223.2
87.5°	19.1	19.1	25.5	31.9	25.5	31.9	31.9	38.3	44.6	51.0	57.4
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°	10044.5	10044.5	10044.5	10044.5	10044.5	10044.5	10044.5	10044.5	10044.5	10044.5	10044.5
2.5°	10101.9	10121.0	9993.5	10114.6	10070.0	10063.6	10152.9	10140.1	10172.0	10159.3	10082.7
5°	10108.3	10063.6	10197.5	10076.4	10133.8	10254.9	10172.0	10363.4	10267.7	10331.5	10191.2
7.5°	10306.0	10318.7	10293.2	10344.2	10318.7	10376.1	10331.5	10376.1	10299.6	10306.0	10433.5
10°	10478.2	10439.9	10484.5	10420.8	10465.4	10446.3	10344.2	10312.3	10337.8	10306.0	10388.9
12.5°	10797.0	10726.9	10695.0	10618.5	10567.4	10376.1	10216.7	10127.4	10248.6	10267.7	10229.4
15°	11122.3	11128.7	10982.0	10809.8	10490.9	10203.9	10242.2	10274.1	10274.1	10325.1	10229.4
17.5°	11326.4	11326.4	11192.4	10848.0	10522.8	10357.0	10318.7	10216.7	10127.4	10114.6	10108.3
20°	11683.5	11575.1	11269.0	10841.7	10510.0	10433.5	10146.5	9904.2	9719.2	9655.5	9649.1
22.5°	12091.6	11817.4	11390.1	10854.4	10490.9	10382.5	9846.8	9483.3	9151.6	9011.3	9030.5
25°	12467.9	12027.9	11460.3	10797.0	10420.8	9897.8	9298.3	8794.5	8450.1	8335.3	8277.9
27.5°	12729.4	12251.1	11460.3	10848.0	10159.3	9355.7	8743.5	8099.4	7799.6	7723.1	7735.8
30°	13080.2	12531.7	11658.0	10739.6	9636.3	8654.2	7920.8	7499.9	7321.3	7257.5	7302.2
32.5°	13902.8	13265.1	11932.2	10478.2	9017.7	7952.7	7359.6	7123.6	6862.1	6734.6	6689.9
35°	14795.7	13960.2	12200.1	10038.1	8322.6	7314.9	6945.0	6728.2	6415.7	6275.4	6300.9
37.5°	16058.4	14853.1	12219.2	9311.1	7570.0	6957.8	6619.8	6281.8	6026.7	5809.9	5746.1
40°	17761.2	16071.2	12174.6	8545.8	6964.2	6536.9	6288.2	5867.3	5580.3	5427.2	5459.1
42.5°	19259.9	17499.7	11989.6	7678.5	6415.7	6249.9	5969.3	5554.8	5274.2	5114.7	5102.0
45°	20522.6	18552.0	11638.8	6938.7	5956.5	5931.0	5605.8	5286.9	5063.7	4917.0	4980.8
47.5°	21689.7	19400.2	11109.5	6198.9	5535.6	5586.6	5274.2	5076.5	4936.1	4802.2	4795.8
50°	22110.6	19387.5	10644.0	5586.6	5197.6	5172.1	5159.4	4948.9	4802.2	4687.4	4738.4
52.5°	22812.1	19604.3	10140.1	5165.7	4891.5	4897.9	4942.5	4789.5	4623.7	4553.5	4617.3
55°	23819.8	19636.2	9030.5	4674.7	4636.4	4681.0	4681.0	4579.0	4438.7	4381.3	4349.4
56°	22997.1	18685.9	8099.4	4547.1	4508.9	4508.9	4630.0	4515.2	4343.0	4298.4	4260.1
57.5°	21211.4	16370.9	6779.2	4394.1	4336.7	4426.0	4489.7	4368.6	4209.1	4145.3	4183.6
60°	14629.9	11077.6	5095.6	4062.4	4062.4	4209.1	4260.1	4081.6	4011.4	4005.0	3954.0
62.5°	8539.4	6454.0	3985.9	3762.7	3775.5	3896.6	3934.9	3832.8	3743.6	3852.0	3903.0
65°	4528.0	3852.0	3418.3	3443.8	3450.2	3545.9	3711.7	3705.3	3698.9	3730.8	3737.2
67.5°	3278.0	3201.5	3105.8	3080.3	3093.1	3163.2	3329.0	3456.6	3450.2	3373.7	3316.3
70°	2920.9	2812.5	2755.1	2761.4	2710.4	2793.3	2927.2	3010.2	2863.5	2774.2	2735.9
72.5°	2429.8	2397.9	2359.7	2366.0	2264.0	2244.9	2091.8	2091.8	2053.5	2028.0	2072.7
75°	1855.8	1843.1	1862.2	1830.3	1721.9	1607.1	1517.8	1434.9	1307.4	1256.4	1230.8
77.5°	1173.5	1211.7	1256.4	1186.2	1141.6	1058.7	969.4	886.5	784.4	727.0	727.0
80°	797.2	829.1	861.0	848.2	797.2	720.7	650.5	561.2	491.1	446.4	440.0
82.5°	605.9	631.4	676.0	625.0	574.0	510.2	452.8	389.0	325.2	274.2	274.2
85°	216.8	248.7	274.2	299.7	318.9	325.2	280.6	229.6	184.9	146.7	140.3
87.5°	57.4	63.8	70.2	63.8	63.8	63.8	70.2	63.8	57.4	44.6	44.6
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)