

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: P531258

Luminaire Tested: **GALN-SA6C-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34127 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

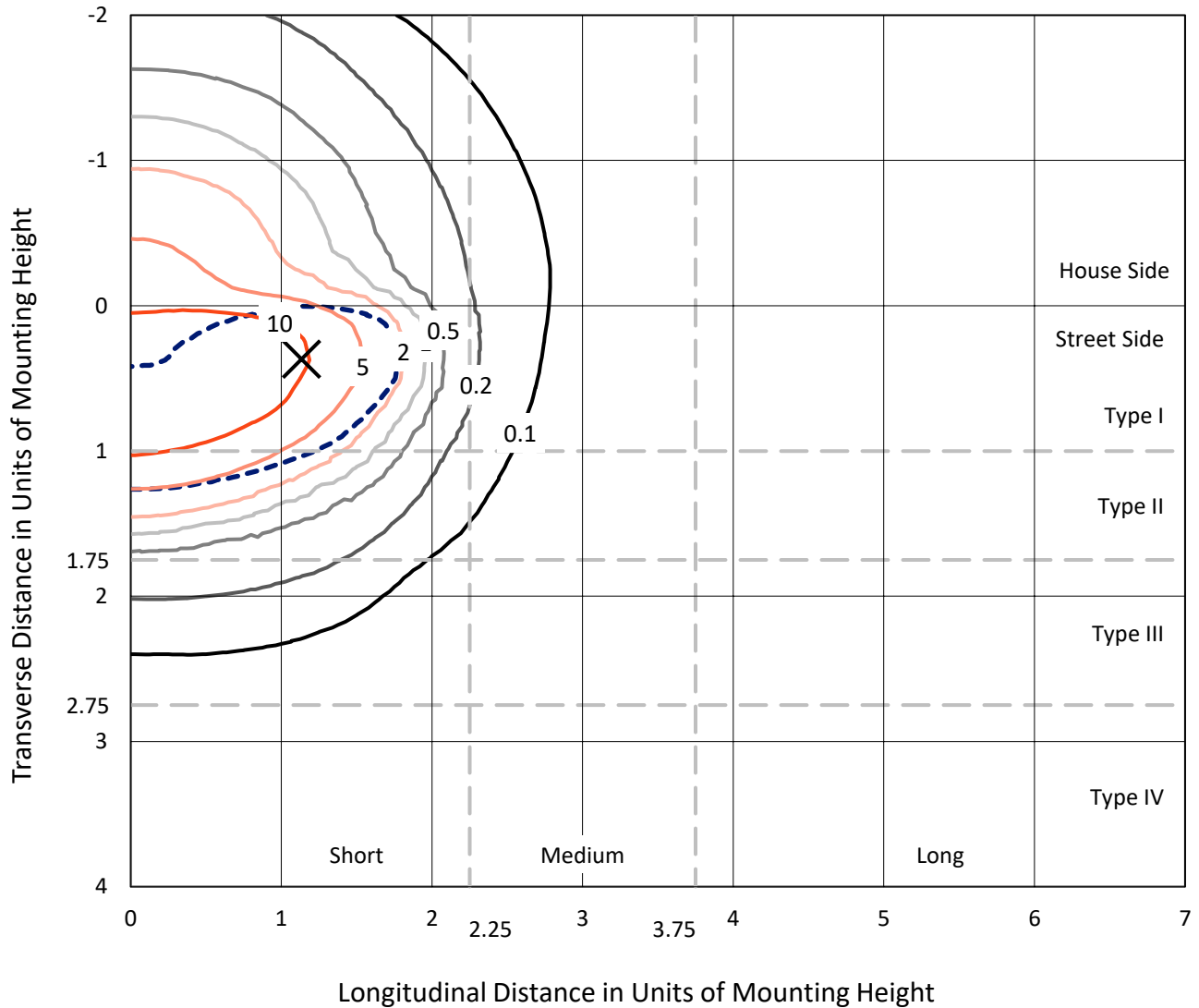
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

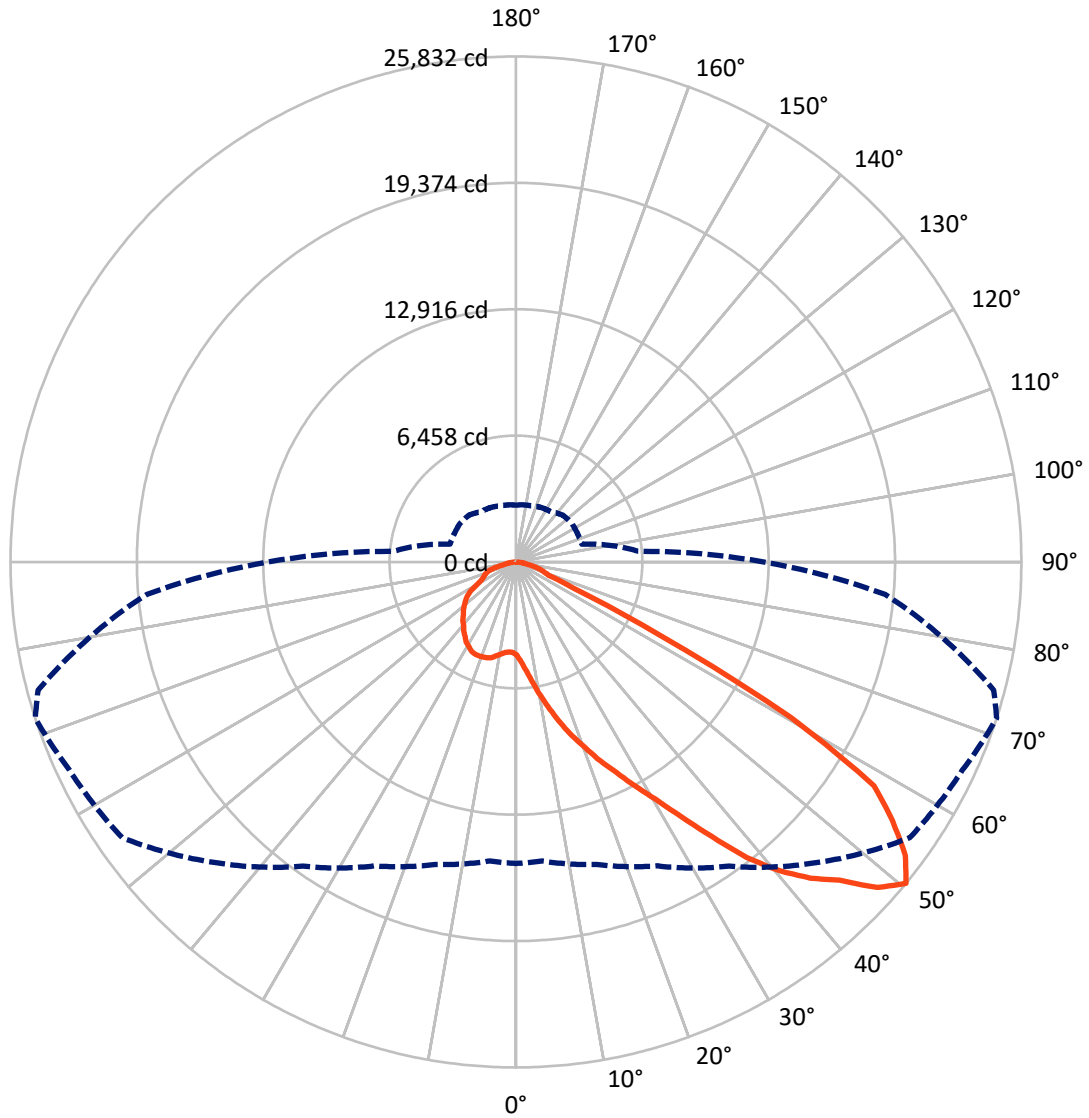
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

REPORT NUMBER: P531258
CATALOG NUMBER: GALN-SA6C-735-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7818.7	0.0	7818.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	26308.3	0.0	26308.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	34127.0	0.0	34127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.8	1.6
10°-20°	2089.0	6.1
20°-30°	4050.5	11.9
30°-40°	6710.2	19.7
40°-50°	9389.1	27.5
50°-60°	7920.9	23.2
60°-70°	2414.3	7.1
70°-80°	847.0	2.5
80°-90°	147.3	0.4
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°	34127.0	100.0
0°-180°	34127.0	100.0

Coefficient of Utilization



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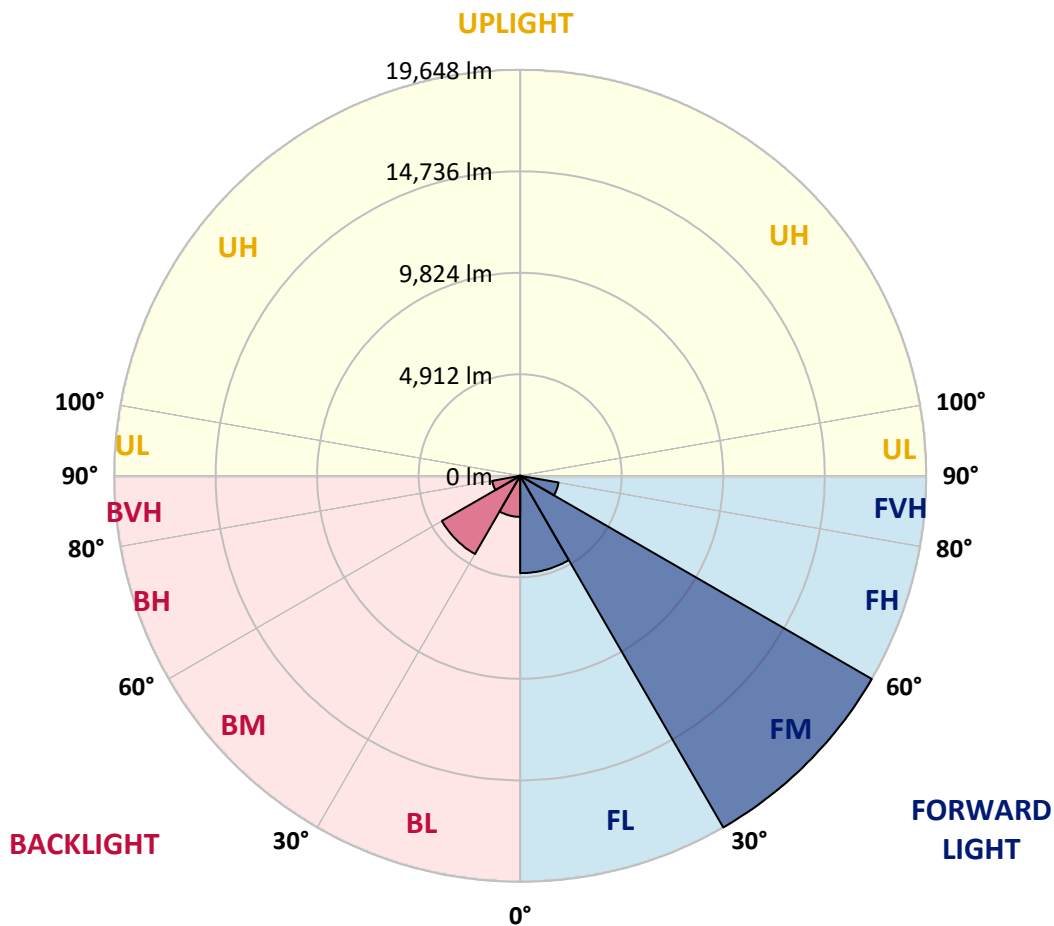
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4710.8	13.8			
FM (30°-60°)	19647.8	57.6			
FH (60°-80°)	1883.8	5.5			G2/5000
FVH (80°-90°)	66.0	0.2			G1/100
BL (0°-30°)	1987.5	5.8	B3/2500		
BM (30°-60°)	4372.3	12.8	B3/5000		
BH (60°-80°)	1377.5	4.0	B3/2500		G3/2500
BVH (80°-90°)	81.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P531258

CATALOG NUMBER: GALN-SA6C-735-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8
2.5°	6110.5	6072.5	5958.5	5920.5	5785.4	5540.5	5456.0	5206.8	5101.3	5004.1	4890.1
5°	7727.9	7550.6	7537.9	7322.5	7010.0	6828.4	6287.9	5924.7	5591.1	5422.2	5109.7
7.5°	8758.3	8762.5	8762.5	8585.2	8336.0	7875.7	7390.1	6735.5	6233.0	5983.9	5451.8
10°	9738.0	9653.6	9607.1	9590.2	9421.3	8973.7	8454.3	7643.5	6955.1	6663.7	5709.4
12.5°	10430.6	10358.8	10464.4	10409.5	10287.0	9995.6	9505.8	8580.9	7719.5	7326.7	6123.2
15°	10760.0	10810.6	10895.1	11047.1	10992.2	10882.4	10341.9	9543.8	8542.9	8099.5	6490.6
17.5°	11266.7	11127.4	11228.7	11418.7	11570.8	11520.1	11211.8	10240.5	9358.0	8813.2	6984.7
20°	11621.4	11541.2	11591.9	11811.5	11925.5	12212.6	12052.2	11152.7	10139.2	9564.9	7567.4
22.5°	12634.9	12516.7	12352.0	12385.8	12428.0	12630.7	12668.7	12153.5	11047.1	10439.0	8120.6
25°	13884.9	13775.1	13580.9	13382.4	13259.9	13221.9	13352.8	12939.0	11917.0	11287.8	8716.1
27.5°	15261.6	15075.8	14953.3	14543.7	14214.3	14163.6	14100.3	13876.5	12947.4	12267.5	9387.5
30°	16600.2	16452.4	16287.7	15633.2	15291.1	15236.2	14923.8	14987.1	14066.5	13310.6	10147.6
32.5°	17613.7	17626.4	17250.6	16756.5	16435.6	16144.2	16030.2	16211.7	15502.3	14894.2	10996.4
35°	18433.0	18471.0	18112.0	17664.4	17318.1	17520.8	17470.2	17554.6	17216.8	16473.6	11984.6
37.5°	19231.1	19041.1	18656.8	18441.4	18259.8	18593.5	19024.2	19096.0	19159.3	18285.2	13133.2
40°	19362.0	19378.9	19155.1	19307.1	19079.1	19581.6	20582.4	20489.5	20747.1	19982.8	14379.0
42.5°	19176.2	19214.2	19302.9	19518.3	20067.3	20671.1	22157.6	21777.5	22090.0	21410.1	15591.0
45°	18872.2	18715.9	18825.7	19645.0	20595.1	21938.0	23597.6	23302.0	23200.6	22630.6	17035.2
47.5°	17419.5	17580.0	17922.0	18931.3	20358.6	22157.6	24619.5	24552.0	24856.0	24454.8	18348.5
50°	15405.2	15341.8	16000.6	17136.6	18977.7	21726.9	24564.6	25177.0	25831.5	25274.1	18935.5
52.5°	11537.0	11874.8	12440.7	13851.1	16477.8	19378.9	23365.3	24387.3	24919.4	24801.1	18462.5
55°	7293.0	7394.3	7736.4	9412.9	11777.7	15553.0	20029.2	22398.3	23348.4	23791.9	18027.6
57.5°	3543.0	3353.0	3771.1	5118.2	6803.1	10460.1	15447.4	19509.8	21574.8	22377.2	17081.7
60°	1849.6	1921.4	2086.1	2567.5	3517.7	5430.7	9628.2	13002.3	16156.8	17389.9	12947.4
62.5°	1532.9	1558.3	1668.0	1908.8	2339.5	3125.0	4915.5	6338.6	8238.9	9349.5	7364.7
65°	1300.7	1313.3	1431.6	1592.0	1866.5	2200.1	2529.5	2647.8	3205.2	3289.6	2618.2
67.5°	1085.3	1098.0	1224.6	1376.7	1554.0	1642.7	1727.2	1718.7	1782.1	1756.7	1752.5
70°	836.1	848.8	979.7	1140.2	1228.9	1178.2	1440.0	1499.1	1524.5	1545.6	1579.4
72.5°	603.9	629.2	730.6	844.6	798.1	916.4	1186.6	1275.3	1309.1	1321.8	1364.0
75°	439.2	447.6	473.0	439.2	506.7	637.7	836.1	945.9	988.2	1000.8	1064.2
77.5°	194.3	198.5	202.7	253.4	325.2	397.0	498.3	587.0	646.1	663.0	679.9
80°	101.3	105.6	130.9	173.1	232.3	291.4	363.2	413.8	451.9	456.1	473.0
82.5°	63.3	67.6	92.9	122.5	164.7	215.4	266.0	308.3	337.8	342.1	346.3
85°	29.6	38.0	54.9	76.0	109.8	139.4	143.6	122.5	130.9	135.1	126.7
87.5°	8.4	12.7	16.9	12.7	16.9	16.9	21.1	25.3	25.3	25.3	29.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P531258

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8	4750.8
2.5°	4826.8	4788.8	4641.0	4586.1	4442.5	4467.8	4391.8	4387.6	4370.7	4366.5	4362.3
5°	4945.0	4826.8	4649.4	4514.3	4434.1	4425.6	4370.7	4370.7	4387.6	4400.3	4370.7
7.5°	5139.3	5004.1	4704.3	4577.6	4505.8	4493.2	4455.2	4425.6	4463.6	4450.9	4417.2
10°	5363.1	5126.6	4809.9	4700.1	4581.9	4552.3	4552.3	4565.0	4501.6	4522.7	4488.9
12.5°	5612.2	5295.5	4945.0	4818.3	4679.0	4662.1	4653.6	4560.7	4594.5	4577.6	4493.2
15°	5929.0	5489.8	5118.2	4902.8	4784.6	4708.5	4598.7	4581.9	4560.7	4518.5	4480.5
17.5°	6271.0	5700.9	5198.4	4928.1	4750.8	4695.9	4611.4	4522.7	4459.4	4467.8	4438.3
20°	6562.4	5895.2	5228.0	4953.5	4725.4	4619.9	4488.9	4434.1	4366.5	4362.3	4358.0
22.5°	6908.7	6157.0	5270.2	4885.9	4649.4	4539.6	4450.9	4353.8	4307.4	4248.2	4277.8
25°	7322.5	6258.3	5278.6	4847.9	4594.5	4400.3	4353.8	4248.2	4231.4	4146.9	4163.8
27.5°	7622.3	6313.2	5211.1	4729.7	4467.8	4320.0	4235.6	4159.6	4130.0	4066.7	4049.8
30°	8023.5	6397.7	5067.5	4581.9	4341.1	4176.5	4125.8	4108.9	4024.4	3956.9	3948.4
32.5°	8479.6	6452.6	4974.6	4429.8	4210.2	4083.6	4108.9	4028.7	3923.1	3864.0	3847.1
35°	8842.8	6473.7	4742.3	4256.7	4121.6	4041.3	4011.8	3994.9	3842.8	3787.9	3745.7
37.5°	9396.0	6427.3	4548.1	4134.2	4024.4	3994.9	3969.5	3855.5	3682.4	3602.1	3543.0
40°	10042.1	6414.6	4298.9	3961.1	3931.5	3965.3	3889.3	3711.9	3471.2	3382.5	3340.3
42.5°	10662.8	6503.3	4142.7	3868.2	3830.2	3842.8	3737.3	3471.2	3353.0	3302.3	3234.7
45°	11701.7	6689.1	3885.1	3724.6	3707.7	3699.3	3572.6	3293.9	3226.3	3163.0	3150.3
47.5°	12639.2	6566.6	3720.4	3576.8	3593.7	3547.2	3277.0	3188.3	3112.3	3048.9	3027.8
50°	12694.1	6275.2	3488.1	3462.8	3467.0	3386.8	3129.2	3070.1	2972.9	2930.7	2901.1
52.5°	12406.9	5798.1	3272.8	3281.2	3293.9	3163.0	2947.6	2905.4	2825.1	2766.0	2749.1
55°	11600.3	5054.8	3061.6	3095.4	3129.2	2880.0	2812.5	2706.9	2643.5	2559.1	2563.3
57.5°	10219.4	4070.9	2766.0	2820.9	2892.7	2618.2	2567.5	2436.6	2343.7	2276.1	2267.7
60°	6849.6	2896.9	2322.6	2343.7	2504.2	2394.4	2390.2	2259.3	2132.6	2073.4	2039.7
62.5°	4041.3	2212.8	2005.9	1984.8	1980.5	2043.9	2149.5	2103.0	1938.3	1824.3	1858.1
65°	2115.7	1913.0	1866.5	1794.7	1752.5	1735.6	1815.8	1837.0	1727.2	1604.7	1596.3
67.5°	1777.8	1777.8	1739.8	1714.5	1655.4	1583.6	1532.9	1465.3	1448.5	1414.7	1372.4
70°	1617.4	1659.6	1646.9	1587.8	1537.1	1456.9	1326.0	1216.2	1110.6	1072.6	1098.0
72.5°	1410.5	1452.7	1452.7	1423.1	1355.6	1233.1	1106.4	979.7	891.0	823.5	815.0
75°	1085.3	1106.4	1157.1	1123.3	1034.6	958.6	827.7	696.8	612.3	549.0	536.3
77.5°	692.6	726.3	726.3	722.1	658.8	587.0	502.5	409.6	346.3	299.8	287.2
80°	460.3	481.4	498.3	481.4	439.2	384.3	320.9	257.6	211.1	173.1	164.7
82.5°	337.8	363.2	375.8	358.9	316.7	274.5	228.0	181.6	135.1	105.6	97.1
85°	130.9	135.1	152.0	181.6	177.4	173.1	139.4	101.3	76.0	54.9	50.7
87.5°	33.8	29.6	33.8	33.8	29.6	25.3	25.3	25.3	25.3	12.7	16.9
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)