

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: P533134

Luminaire Tested: **GALN-SA8C-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46166 lumens
Efficiency: N/A
Efficacy: 107.6 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

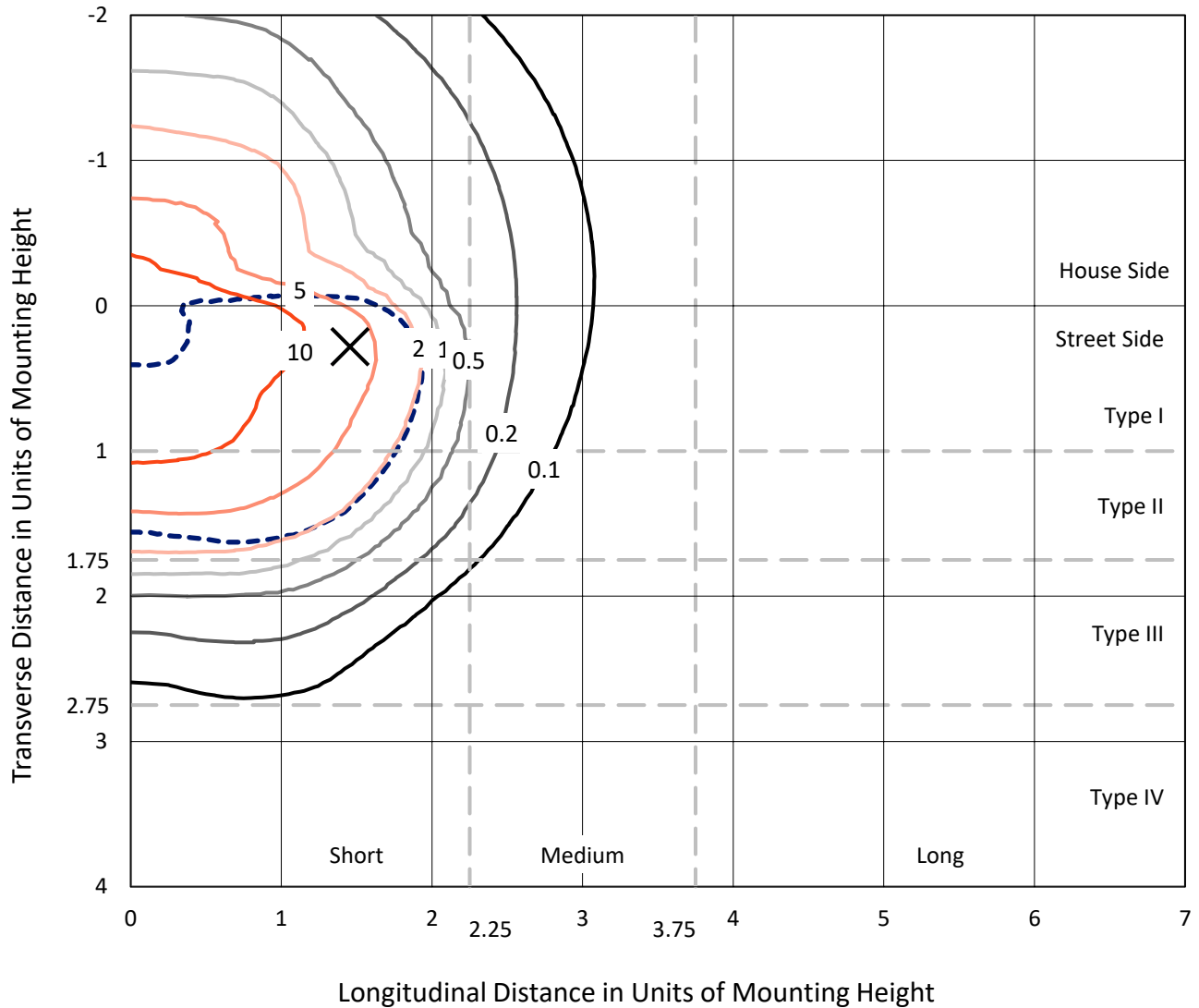
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533134
 CATALOG NUMBER: GALN-SA8C-735-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

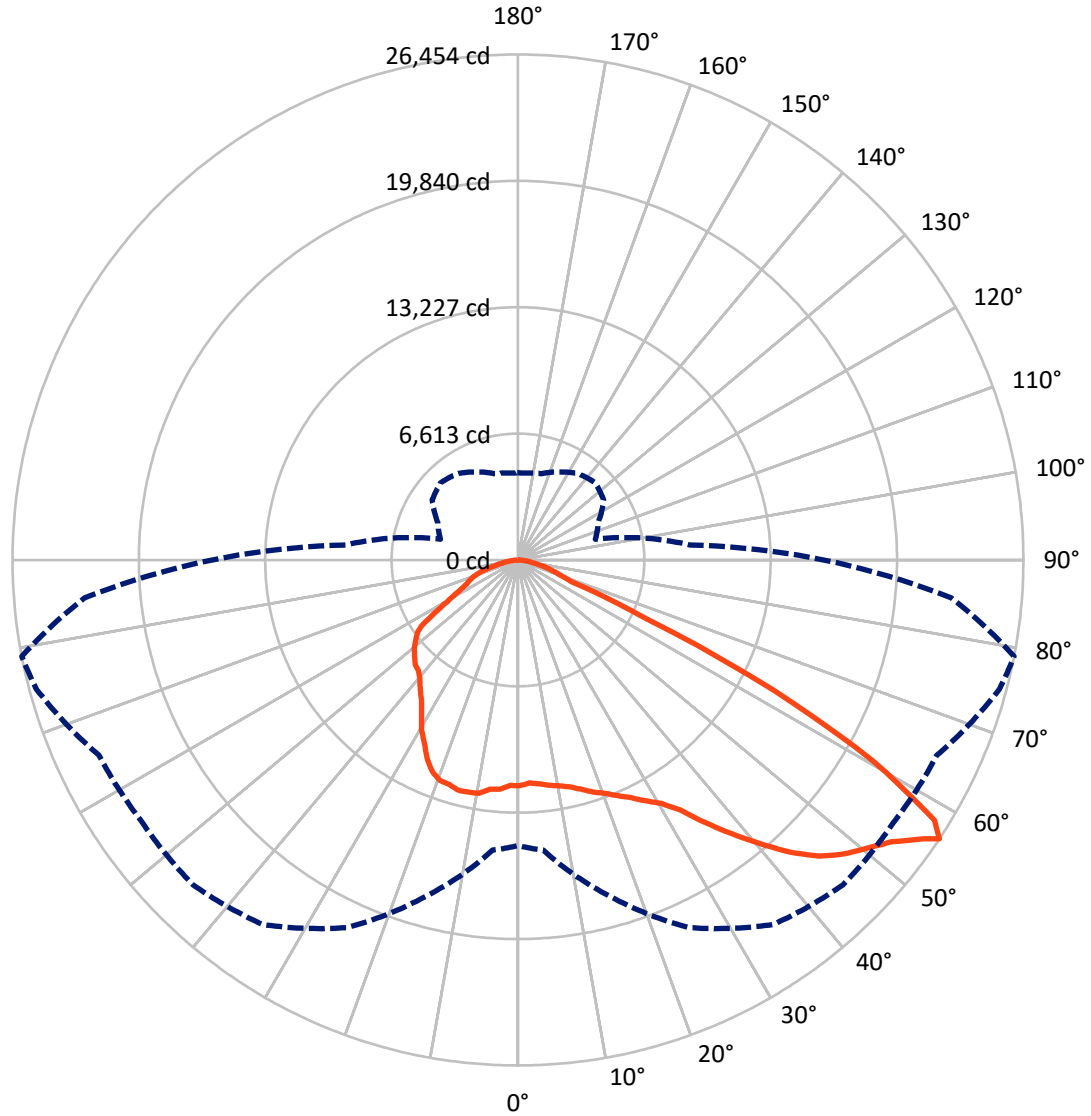
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - N/A

REPORT NUMBER: P533134
CATALOG NUMBER: GALN-SA8C-735-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P533134
 CATALOG NUMBER: GALN-SA8C-735-U-T3R-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13633.8	0.0	13633.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	32532.2	0.0	32532.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	46166.0	0.0	46166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1073.9	2.3
10°-20°	2939.1	6.4
20°-30°	5028.2	10.9
30°-40°	7706.3	16.7
40°-50°	10415.1	22.6
50°-60°	11962.1	25.9
60°-70°	5452.7	11.8
70°-80°	1344.4	2.9
80°-90°	244.3	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°	46166.0	100.0
0°-180°	46166.0	100.0

Coefficient of Utilization



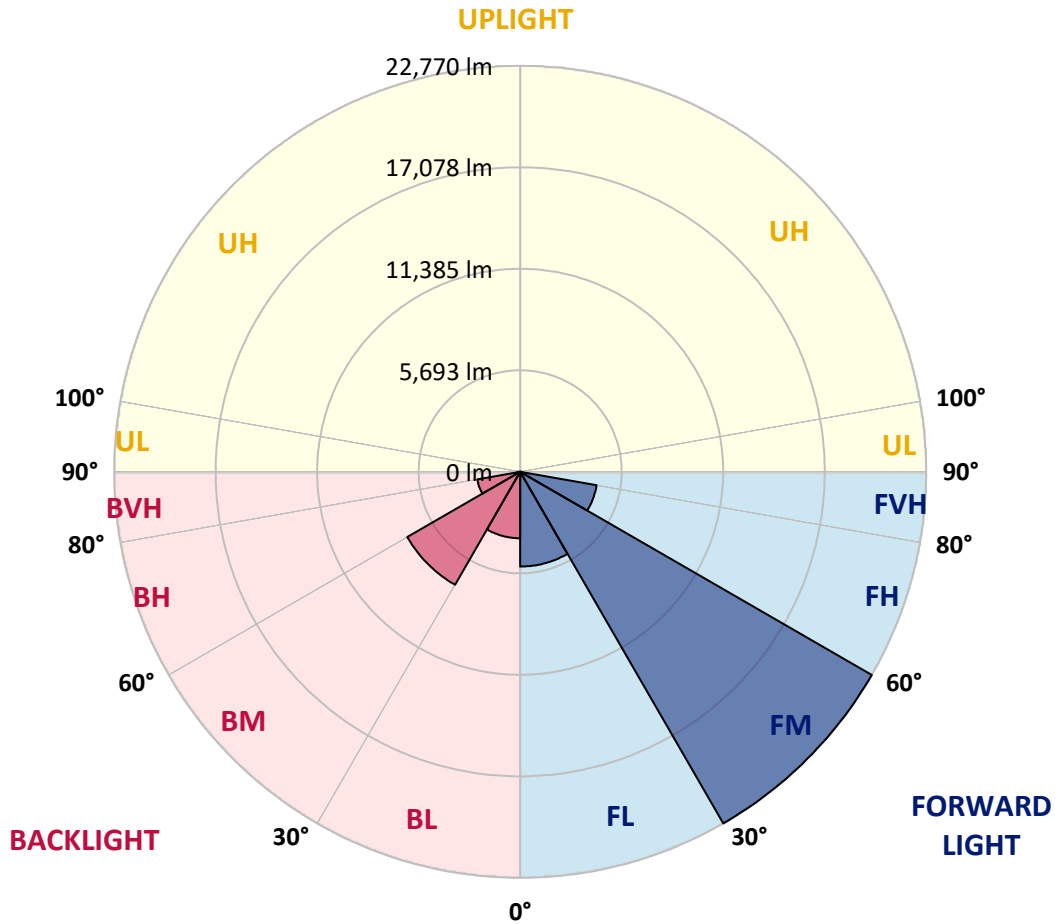
REPORT NUMBER: P533134
 CATALOG NUMBER: GALN-SA8C-735-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5311.8	11.5			
FM (30°-60°)	22770.4	49.3			
FH (60°-80°)	4352.4	9.4			G2/5000
FVH (80°-90°)	97.6	0.2			G1/100
BL (0°-30°)	3729.4	8.1	B4/5000		
BM (30°-60°)	7313.0	15.8	B4/8500		
BH (60°-80°)	2444.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	146.8	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





REPORT NUMBER: P533134

CATALOG NUMBER: GALN-SA8C-735-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	11812.1	11812.1	11812.1	11812.1	11812.1	11812.1	11812.1	11812.1	11812.1	11812.1	11812.1
2.5°	11237.0	11208.2	11277.2	11329.0	11392.2	11472.8	11513.0	11536.0	11737.3	11685.5	11840.8
5°	10995.4	10920.7	10972.4	11012.7	11122.0	11219.7	11329.0	11501.5	11685.5	11766.0	11955.8
7.5°	10782.7	10742.4	10730.9	10759.7	10909.2	11035.7	11225.5	11478.5	11777.5	11909.8	12019.1
10°	10431.9	10374.4	10460.6	10650.4	10690.7	10955.2	11173.7	11536.0	11794.8	12024.8	12346.9
12.5°	10276.6	10219.1	10236.3	10345.6	10627.4	10880.4	11139.2	11547.5	12093.8	12185.9	12617.2
15°	10523.9	10466.4	10483.6	10454.9	10725.2	10857.4	11265.7	11777.5	12300.9	12456.1	12916.2
17.5°	11087.5	11093.2	11018.4	10955.2	10891.9	11173.7	11455.5	11915.6	12381.4	12772.4	13117.5
20°	12162.8	11973.1	11823.6	11467.0	11369.2	11490.0	11846.6	12289.4	12709.2	13031.2	13422.3
22.5°	12991.0	13008.2	12795.4	12208.9	11996.1	12047.8	12352.6	12714.9	13175.0	13405.0	13853.6
25°	14192.9	14072.1	13842.1	13376.3	12898.9	12939.2	13163.5	13491.3	13617.8	13778.8	14267.6
27.5°	15291.3	15325.8	14871.5	14434.4	13842.1	13727.1	14129.6	14187.1	13974.3	14279.1	14445.9
30°	16406.9	16378.2	16079.1	15567.3	14986.5	15009.5	15187.7	14906.0	14612.7	14779.4	14894.5
32.5°	17562.8	17235.0	17223.5	16763.5	16320.6	16107.9	15889.3	16027.4	15573.0	15607.5	15498.3
35°	18488.7	18534.7	18270.1	17942.4	17723.8	17350.0	16752.0	16999.2	16913.0	16872.7	16401.2
37.5°	19161.5	18983.2	19115.5	19006.2	18799.2	18333.4	17712.3	17948.1	17988.4	18183.9	17637.6
40°	19713.6	19638.8	19989.6	20047.1	19903.4	18897.0	17781.3	18482.9	19086.8	19512.3	18862.5
42.5°	19978.1	20139.1	20507.2	20950.0	20628.0	19552.6	18137.9	18891.2	20236.9	20909.7	20024.1
45°	20334.7	20127.6	20674.0	21484.8	21490.6	20104.6	18482.9	19443.3	21134.0	22111.7	20817.7
47.5°	19972.4	20075.9	20639.5	21668.8	21933.4	20685.5	19414.5	20225.4	22123.2	22991.5	21553.8
50°	19161.5	19368.5	20397.9	21467.6	22266.9	21300.8	20484.2	21070.8	23037.5	23698.9	21674.6
52.5°	18316.2	18431.2	20041.4	21622.8	22416.4	22094.4	21916.1	22238.2	24153.2	24498.2	21824.1
55°	16015.9	16562.2	18862.5	21553.8	23146.8	23526.3	23388.3	23859.9	25418.3	25763.4	22640.7
56°	14952.0	15239.5	18155.1	21231.8	23290.6	24049.7	23980.6	24193.4	26091.2	26453.5	22767.2
57.5°	12985.2	13008.2	15481.0	19805.6	22750.0	24204.9	24135.9	24302.7	25958.9	25711.6	21657.3
60°	8125.8	8482.4	10535.4	15233.8	19345.5	22456.7	22847.8	21507.8	21887.4	21364.1	16849.7
62.5°	4209.6	4157.8	5520.7	8907.9	12841.4	16079.1	16441.4	16378.2	15791.6	15026.7	11006.9
65°	2099.0	2110.5	2886.9	4410.8	6578.9	8419.1	9431.2	9540.5	7982.0	7343.7	5221.7
67.5°	1524.0	1581.5	2076.0	2697.1	3099.7	3467.7	4249.8	4169.3	3157.2	3001.9	2783.4
70°	1184.7	1236.4	1685.0	2058.8	1869.0	1869.0	2035.8	2104.8	2248.5	2311.8	2386.6
72.5°	862.6	902.9	1288.2	1420.4	1224.9	1316.9	1524.0	1685.0	1834.5	1857.5	1943.8
75°	592.3	626.8	845.4	782.1	736.1	908.6	1115.6	1265.2	1374.4	1431.9	1483.7
77.5°	385.3	396.8	483.1	408.3	471.6	586.6	724.6	851.1	960.4	1006.4	1017.9
80°	172.5	189.8	207.0	258.8	327.8	419.8	517.6	621.1	690.1	707.3	741.8
82.5°	97.8	97.8	126.5	184.0	241.5	304.8	373.8	448.6	529.1	546.3	540.6
85°	51.8	51.8	74.8	109.3	149.5	178.3	172.5	178.3	189.8	218.5	212.8
87.5°	17.3	17.3	23.0	23.0	28.8	34.5	28.8	40.3	51.8	51.8	51.8
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: P533134

CATALOG NUMBER: GALN-SA8C-735-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11812.1	11812.1	11812.1	11812.1	11812.1	11812.1	11812.1	11812.1	11812.1	11812.1	11812.1
2.5°	11794.8	11846.6	11777.5	11927.1	11927.1	11898.3	11754.5	11800.5	11835.1	11835.1	11863.8
5°	12019.1	12001.8	12047.8	11869.6	11760.3	11720.0	11484.3	11369.2	11271.5	11265.7	11179.5
7.5°	12145.6	12099.6	12082.3	11950.1	11467.0	11173.7	10667.7	10374.4	10311.1	10086.8	10173.1
10°	12346.9	12433.1	12346.9	11628.0	10955.2	10282.4	9787.8	9333.5	9155.2	9011.4	8925.2
12.5°	12760.9	12720.7	12220.4	11248.5	10305.4	9506.0	8769.9	8292.6	8114.3	7987.8	7976.3
15°	13111.7	12910.4	12145.6	10650.4	9293.2	8442.1	7838.3	7499.0	7418.5	7430.0	7481.7
17.5°	13232.5	13094.5	11754.5	10029.3	8539.9	7539.2	7257.5	7205.7	7280.5	7366.7	7389.7
20°	13422.3	13203.7	11593.5	9184.0	7608.2	6975.7	6958.4	7142.4	7280.5	7407.0	7424.2
22.5°	13819.1	13267.0	11070.2	8384.6	6969.9	6808.9	6975.7	7130.9	7343.7	7447.2	7355.2
25°	13934.1	13129.0	10334.1	7424.2	6567.4	6705.4	6883.7	7096.4	7246.0	7303.5	7343.7
27.5°	14031.8	12916.2	9339.2	6785.9	6440.8	6699.6	6883.7	7061.9	7142.4	7194.2	7240.2
30°	14307.9	12852.9	8476.6	6360.3	6360.3	6584.6	6820.4	6866.4	6975.7	7038.9	7119.4
32.5°	14445.9	12415.9	7591.0	6090.0	6279.8	6642.1	6659.4	6745.6	6751.4	6803.1	6716.9
35°	14808.2	12105.3	6768.6	5894.5	6314.3	6584.6	6670.9	6619.1	6337.3	6199.3	6228.1
37.5°	15072.7	11950.1	6176.3	5871.5	6320.1	6647.9	6693.9	6302.8	6009.5	5779.5	5837.0
40°	15785.8	11564.8	5727.8	5831.3	6371.8	6716.9	6590.4	6164.8	5635.7	5400.0	5359.7
42.5°	16332.1	11288.7	5446.0	5785.3	6412.1	6814.6	6538.6	5888.8	5348.2	5129.7	5187.2
45°	16964.7	11225.5	5296.4	5796.8	6481.1	6866.4	6475.4	5676.0	5100.9	5014.7	4997.4
47.5°	17189.0	10771.2	5135.4	5699.0	6463.8	6849.1	6262.6	5515.0	5008.9	5020.4	5066.4
50°	16815.2	10305.4	5014.7	5497.7	6348.8	6693.9	5929.0	5302.2	4957.2	5100.9	5181.4
52.5°	16337.9	9828.0	4767.4	5227.4	6113.1	6452.3	5773.8	5290.7	4905.4	4859.4	4876.6
55°	16481.7	9437.0	4422.3	4859.4	5733.5	6003.8	5601.2	5181.4	4778.9	4606.4	4663.9
56°	16015.9	9034.4	4198.1	4629.4	5474.7	5716.3	5515.0	5083.7	4675.4	4560.3	4560.3
57.5°	14698.9	7683.0	3904.8	4261.3	4928.4	5215.9	5348.2	5026.2	4560.3	4359.1	4364.8
60°	10840.2	5463.2	3502.2	3755.2	4083.0	4313.1	4928.4	4865.1	4272.8	4134.8	4083.0
62.5°	6682.4	3991.0	3214.7	3312.4	3479.2	3669.0	4301.6	4405.1	3968.0	3818.5	3784.0
65°	3743.7	3053.7	2996.1	3036.4	3116.9	3214.7	3571.2	3801.2	3502.2	3272.2	3260.7
67.5°	2737.4	2731.6	2777.6	2812.1	2846.6	2846.6	2932.9	3024.9	2984.6	2800.6	2783.4
70°	2432.6	2449.8	2484.3	2490.1	2501.6	2461.3	2392.3	2363.6	2409.6	2294.6	2271.5
72.5°	2007.0	2064.5	2104.8	2110.5	2047.3	1995.5	1903.5	1805.7	1771.2	1748.2	1742.5
75°	1541.2	1581.5	1598.7	1593.0	1570.0	1495.2	1385.9	1288.2	1224.9	1155.9	1190.4
77.5°	1040.9	1098.4	1127.1	1127.1	1092.6	977.6	925.9	851.1	787.9	713.1	724.6
80°	730.3	770.6	816.6	810.9	753.3	695.8	621.1	552.1	500.3	442.8	437.1
82.5°	546.3	569.3	592.3	580.8	540.6	483.1	431.3	368.0	310.5	270.3	270.3
85°	195.5	212.8	258.8	270.3	293.3	293.3	247.3	207.0	166.8	138.0	138.0
87.5°	57.5	57.5	63.3	63.3	57.5	63.3	51.8	57.5	63.3	40.3	40.3
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)