

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: P533121

Luminaire Tested: **GALN-SA8C-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
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-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30927 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

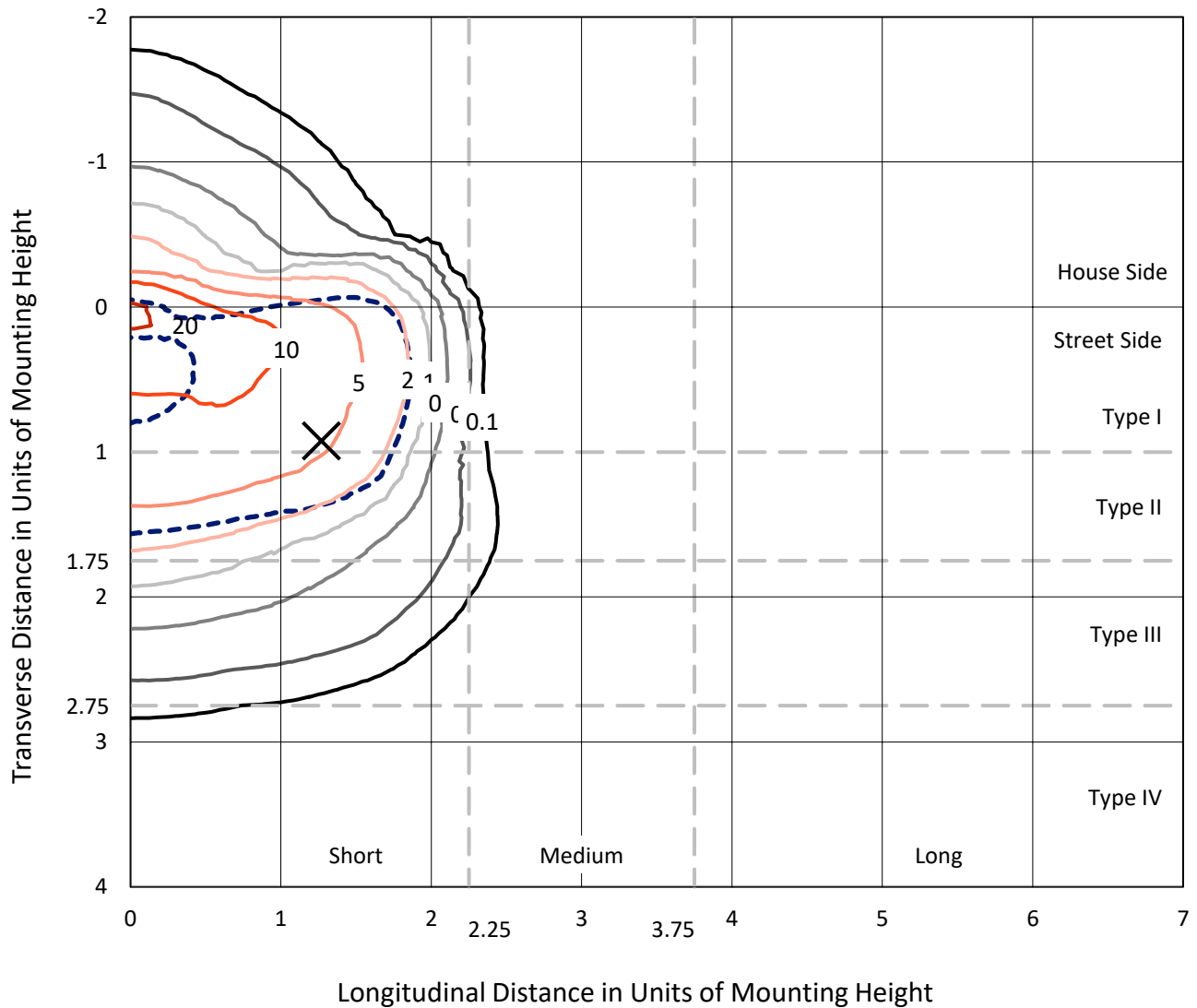
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533121
 CATALOG NUMBER: GALN-SA8C-735-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

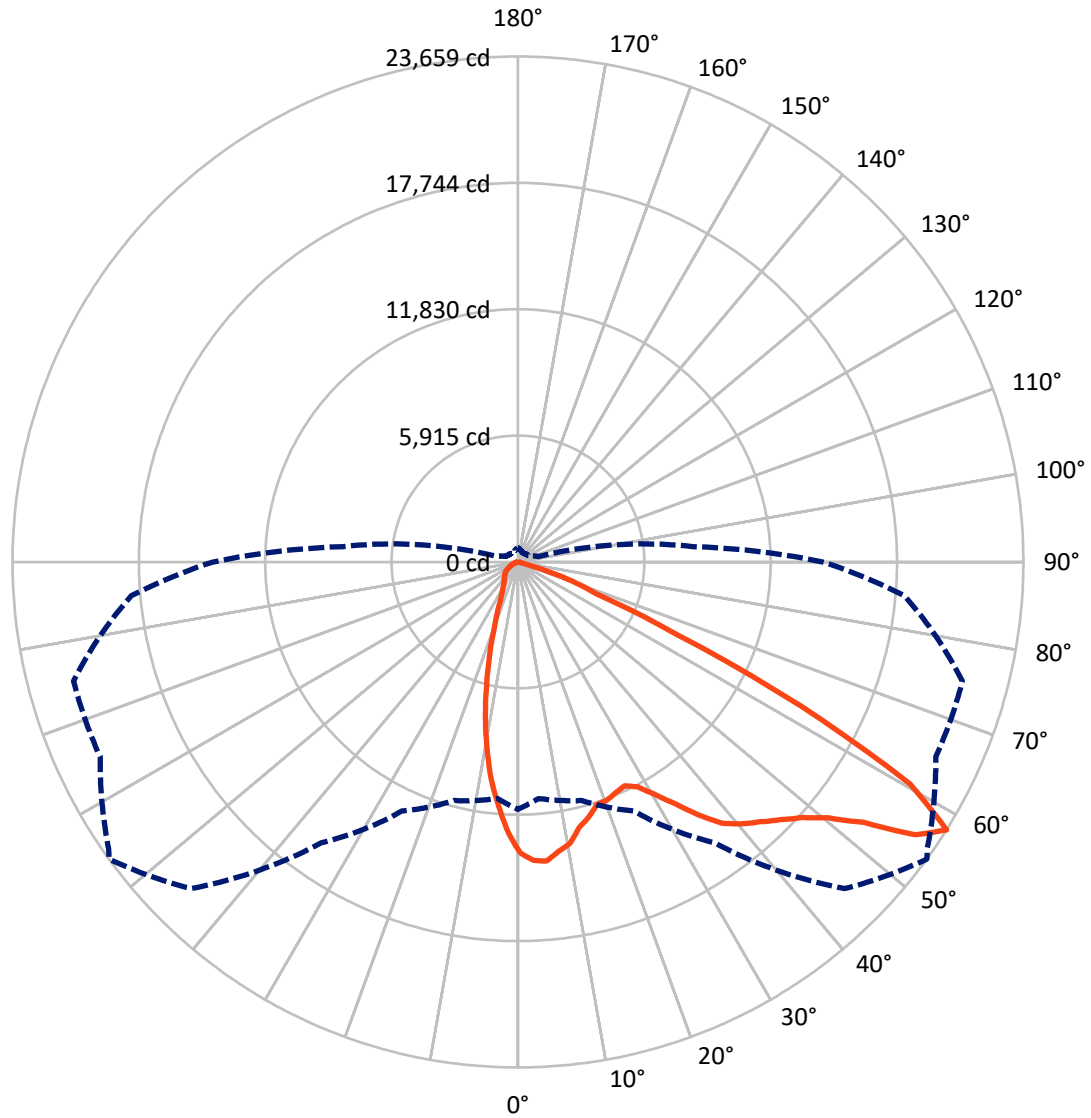
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type II - Short - N/A

REPORT NUMBER: P533121
CATALOG NUMBER: GALN-SA8C-735-U-SL3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P533121
 CATALOG NUMBER: GALN-SA8C-735-U-SL3-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4370.5	0.0	4370.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	26556.5	0.0	26556.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	30927.0	0.0	30927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1140.1	3.7
10°-20°	2434.0	7.9
20°-30°	3225.6	10.4
30°-40°	4687.6	15.2
40°-50°	6951.1	22.5
50°-60°	8692.1	28.1
60°-70°	3428.6	11.1
70°-80°	341.4	1.1
80°-90°	26.6	0.1
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°	30927.0	100.0
0°-180°	30927.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533121

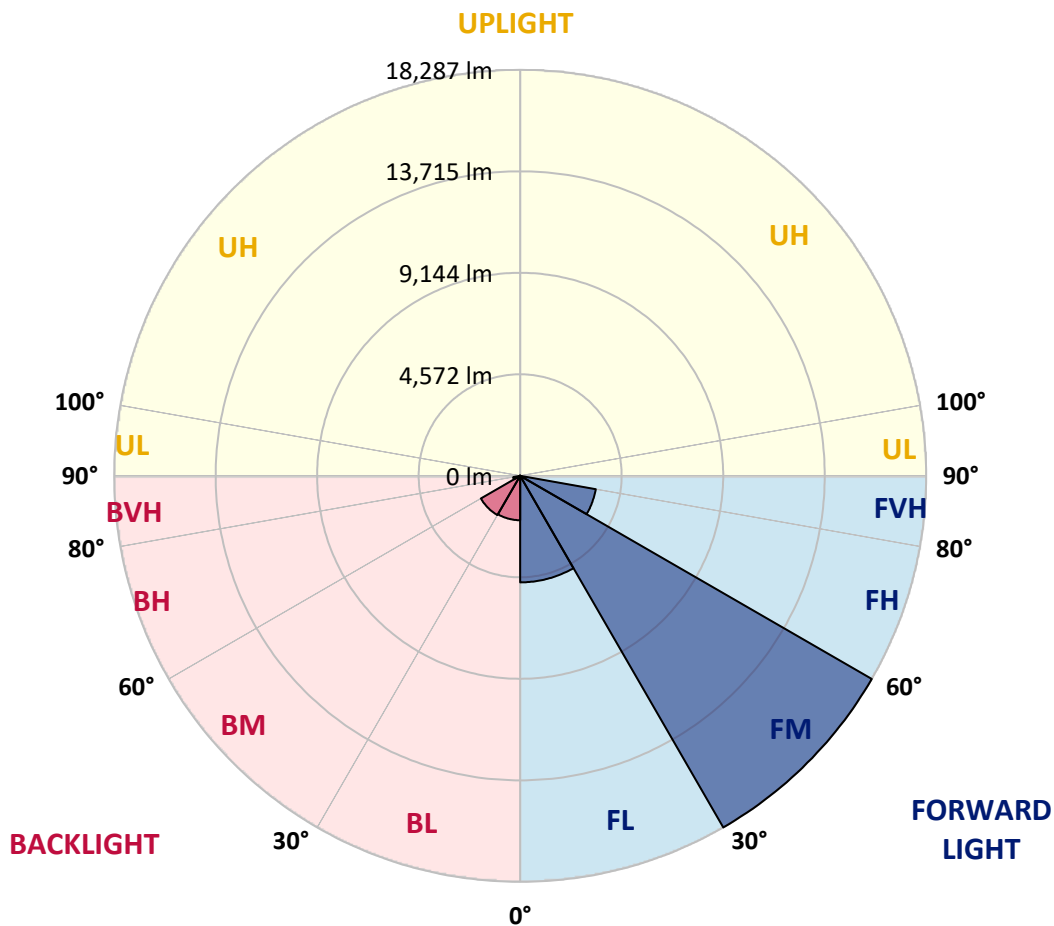
CATALOG NUMBER: GALN-SA8C-735-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4800.8	15.5			
FM (30°-60°)	18287.1	59.1			
FH (60°-80°)	3456.6	11.2			G2/5000
FVH (80°-90°)	12.1	0.0			G1/100
BL (0°-30°)	1998.9	6.5	B3/2500		
BM (30°-60°)	2043.8	6.6	B2/2500		
BH (60°-80°)	313.4	1.0	B1/500		G1/500
BVH (80°-90°)	14.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P533121

CATALOG NUMBER: GALN-SA8C-735-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13623.8	13623.8	13623.8	13623.8	13623.8	13623.8	13623.8	13623.8	13623.8	13623.8	13623.8
2.5°	14417.4	14267.9	14279.4	14227.6	14158.6	14210.3	13986.1	14037.8	14032.1	13727.3	13526.0
5°	14055.1	14216.1	14049.3	14187.3	14055.1	14198.8	14060.8	13957.3	13790.5	13566.3	13192.4
7.5°	13439.7	13284.5	13330.5	13503.0	13531.7	13853.8	13681.3	13813.5	13744.5	13301.7	12789.9
10°	12203.3	12168.8	12398.8	12628.9	12910.7	13255.7	13388.0	13313.2	13261.5	13094.7	12410.3
12.5°	11254.4	11352.2	11346.4	11726.0	12203.3	12398.8	12743.9	12732.4	13019.9	12709.4	12053.8
15°	10351.5	10403.3	10644.8	10880.6	11409.7	11967.5	12393.1	12450.6	12795.6	12577.1	11777.7
17.5°	9799.4	9724.7	9914.5	10196.3	10736.8	11467.2	11938.8	12076.8	12548.4	12502.3	11461.4
20°	9253.1	9253.1	9408.4	9741.9	10236.5	11058.9	11898.5	11858.2	12548.4	12416.1	11122.1
22.5°	9069.1	9161.1	9201.4	9454.4	10041.0	10748.3	11726.0	11800.7	12646.1	12375.8	10972.6
25°	9322.1	9201.4	9212.9	9414.1	9966.2	10598.8	11599.5	11766.2	12824.4	12577.1	10851.9
27.5°	9362.4	9483.1	9517.7	9655.7	10023.7	10644.8	11915.8	12255.1	13267.2	13048.7	10886.4
30°	9713.2	9834.0	9828.2	10064.0	10317.0	11018.6	12623.1	12692.1	14181.6	13641.0	11099.1
32.5°	10138.7	10265.3	10305.5	10581.6	10782.8	11703.0	13485.7	13664.0	15061.5	14572.6	11657.0
35°	10667.8	10621.8	10805.8	11081.9	11513.2	12703.6	14538.1	14837.2	16010.4	15780.3	12232.1
37.5°	11329.2	11271.7	11449.9	11898.5	12485.1	13888.3	15510.0	15705.6	16700.5	16901.7	13296.0
40°	11795.0	11818.0	12358.6	12962.4	13583.5	15015.5	16125.4	16315.2	17183.5	17948.4	14101.1
42.5°	12571.4	12715.1	13365.0	14101.1	14750.9	15860.8	16625.7	16809.7	17407.8	18788.0	15188.0
45°	13698.5	13635.3	14354.1	15176.5	15895.3	16740.7	17218.0	17154.8	17540.1	19621.9	15872.3
47.5°	15147.7	15159.2	15636.6	16338.2	17085.8	17505.6	17879.4	17655.1	17816.1	20501.8	16786.7
50°	16136.9	16223.1	16608.5	17327.3	17701.1	18345.2	18822.5	18684.5	18632.7	21030.9	17361.8
52.5°	16389.9	16648.7	16855.7	17752.9	18627.0	19644.9	20254.5	20547.8	19627.6	21209.1	18092.2
55°	14480.6	14710.7	15441.0	16671.7	18977.8	21703.7	22543.3	22549.1	20927.3	22002.7	18604.0
57.5°	11576.5	11110.6	11559.2	12864.6	16044.9	21617.4	23659.0	23388.7	21577.2	21536.9	18161.2
60°	8005.2	7890.2	7918.9	8436.5	11104.9	17195.0	21082.6	21433.4	19869.2	18667.3	14377.1
62.5°	6343.2	6245.4	6118.9	6061.4	6895.3	10713.8	14871.7	15366.3	13894.0	12105.5	8522.8
65°	4968.7	4911.2	4928.5	5158.5	5152.8	6078.6	8131.7	7930.4	6348.9	4692.7	2679.9
67.5°	3352.7	3439.0	3508.0	4203.9	4560.4	4232.6	3927.8	3812.8	2064.6	868.4	592.3
70°	1886.3	1897.8	1972.5	2628.1	3462.0	3283.7	2708.6	2708.6	1029.4	316.3	339.3
72.5°	1029.4	994.9	925.9	1132.9	1541.2	1564.2	1207.7	1052.4	304.8	207.0	189.8
75°	500.3	494.6	425.6	350.8	333.5	276.0	212.8	195.5	138.0	132.3	115.0
77.5°	103.5	97.8	51.8	51.8	57.5	63.3	80.5	80.5	97.8	97.8	80.5
80°	0.0	0.0	5.8	23.0	40.3	57.5	69.0	69.0	80.5	80.5	63.3
82.5°	0.0	0.0	5.8	17.3	34.5	51.8	63.3	69.0	80.5	86.3	69.0
85°	0.0	0.0	0.0	11.5	28.8	40.3	34.5	34.5	28.8	23.0	11.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P533121

CATALOG NUMBER: GALN-SA8C-735-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13623.8	13623.8	13623.8	13623.8	13623.8	13623.8	13623.8	13623.8	13623.8	13623.8	13623.8
2.5°	13422.5	13411.0	13146.4	12996.9	12726.6	12490.8	12301.1	12163.0	12163.0	12076.8	11996.3
5°	13042.9	12945.2	12381.6	12019.3	11507.4	11127.9	10869.1	10667.8	10351.5	10437.8	10098.5
7.5°	12571.4	12324.1	11576.5	11024.4	10317.0	9776.4	9224.4	8735.5	8264.0	8051.2	8166.2
10°	12065.3	11634.0	10627.6	9753.4	8873.6	7884.4	7240.3	6458.2	5975.1	5946.4	5819.9
12.5°	11530.5	11041.6	9816.7	8609.0	7453.1	6262.7	5279.3	4548.9	4221.1	3858.8	3927.8
15°	11127.9	10403.3	8913.8	7458.9	5923.4	4721.4	3732.3	3168.7	2858.2	2771.9	2743.2
17.5°	10690.8	9914.5	7993.7	6233.9	4646.7	3398.8	2685.6	2415.4	2294.6	2294.6	2277.3
20°	10236.5	9362.4	7079.3	5095.3	3485.0	2536.1	2150.8	2064.6	2058.8	2053.1	2053.1
22.5°	9937.5	8729.8	6251.2	4048.6	2628.1	2030.0	1869.0	1834.5	1857.5	1926.5	1926.5
25°	9621.2	8120.2	5336.8	3122.7	2035.8	1742.5	1650.5	1673.5	1731.0	1794.3	1771.3
27.5°	9299.1	7723.4	4474.2	2449.9	1667.7	1524.0	1489.5	1541.2	1604.5	1662.0	1644.7
30°	9224.4	7297.8	3657.5	1857.5	1432.0	1328.4	1351.4	1397.5	1460.7	1483.7	1506.7
32.5°	9339.4	6964.3	2996.2	1524.0	1247.9	1219.2	1219.2	1242.2	1282.4	1334.2	1316.9
35°	9667.2	6774.5	2369.3	1322.7	1144.4	1115.7	1109.9	1132.9	1155.9	1173.2	1155.9
37.5°	10167.5	6625.0	1938.0	1173.2	1075.4	1029.4	1017.9	1012.1	1035.2	1040.9	1052.4
40°	10805.8	6705.5	1644.7	1081.2	1006.4	954.6	920.1	920.1	920.1	937.4	943.1
42.5°	11495.9	6814.8	1420.5	1029.4	943.1	879.9	845.4	833.9	845.4	868.4	862.6
45°	12220.6	7027.5	1276.7	948.9	885.6	805.1	759.1	747.6	776.4	822.4	816.6
47.5°	12899.2	7332.3	1167.4	897.1	828.1	753.4	695.9	684.4	736.1	799.4	805.1
50°	13577.8	7861.4	1127.2	856.9	787.9	701.6	649.8	638.3	695.9	776.4	793.6
52.5°	14359.9	8430.7	1098.4	805.1	741.9	661.3	603.8	592.3	655.6	759.1	764.9
55°	14871.7	8913.8	1075.4	713.1	655.6	598.1	552.1	546.3	615.3	707.4	730.4
57.5°	14273.6	8241.0	994.9	621.1	557.8	529.1	488.8	488.8	546.3	632.6	649.8
60°	10823.1	5423.1	707.4	500.3	471.6	454.3	437.1	437.1	483.1	546.3	552.1
62.5°	6337.4	2921.4	454.3	402.6	402.6	385.3	356.6	356.6	402.6	437.1	442.8
65°	1880.5	937.4	368.1	345.1	339.3	310.5	281.8	276.0	310.5	327.8	322.0
67.5°	540.6	431.3	304.8	287.5	281.8	235.8	218.5	212.8	218.5	207.0	201.3
70°	322.0	293.3	235.8	241.5	212.8	172.5	155.3	149.5	138.0	120.8	109.3
72.5°	178.3	178.3	172.5	184.0	149.5	115.0	97.8	80.5	63.3	51.8	46.0
75°	109.3	115.0	120.8	126.5	97.8	74.8	63.3	40.3	23.0	11.5	11.5
77.5°	74.8	80.5	86.3	92.0	80.5	69.0	51.8	28.8	5.8	0.0	0.0
80°	57.5	63.3	74.8	80.5	86.3	92.0	69.0	28.8	5.8	0.0	0.0
82.5°	63.3	69.0	86.3	80.5	80.5	80.5	63.3	28.8	5.8	0.0	0.0
85°	11.5	17.3	28.8	28.8	40.3	51.8	40.3	11.5	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)