

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: P533821

Luminaire Tested: **GALN-SA9B-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28048 lumens
Efficiency: N/A
Efficacy: 77.1 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

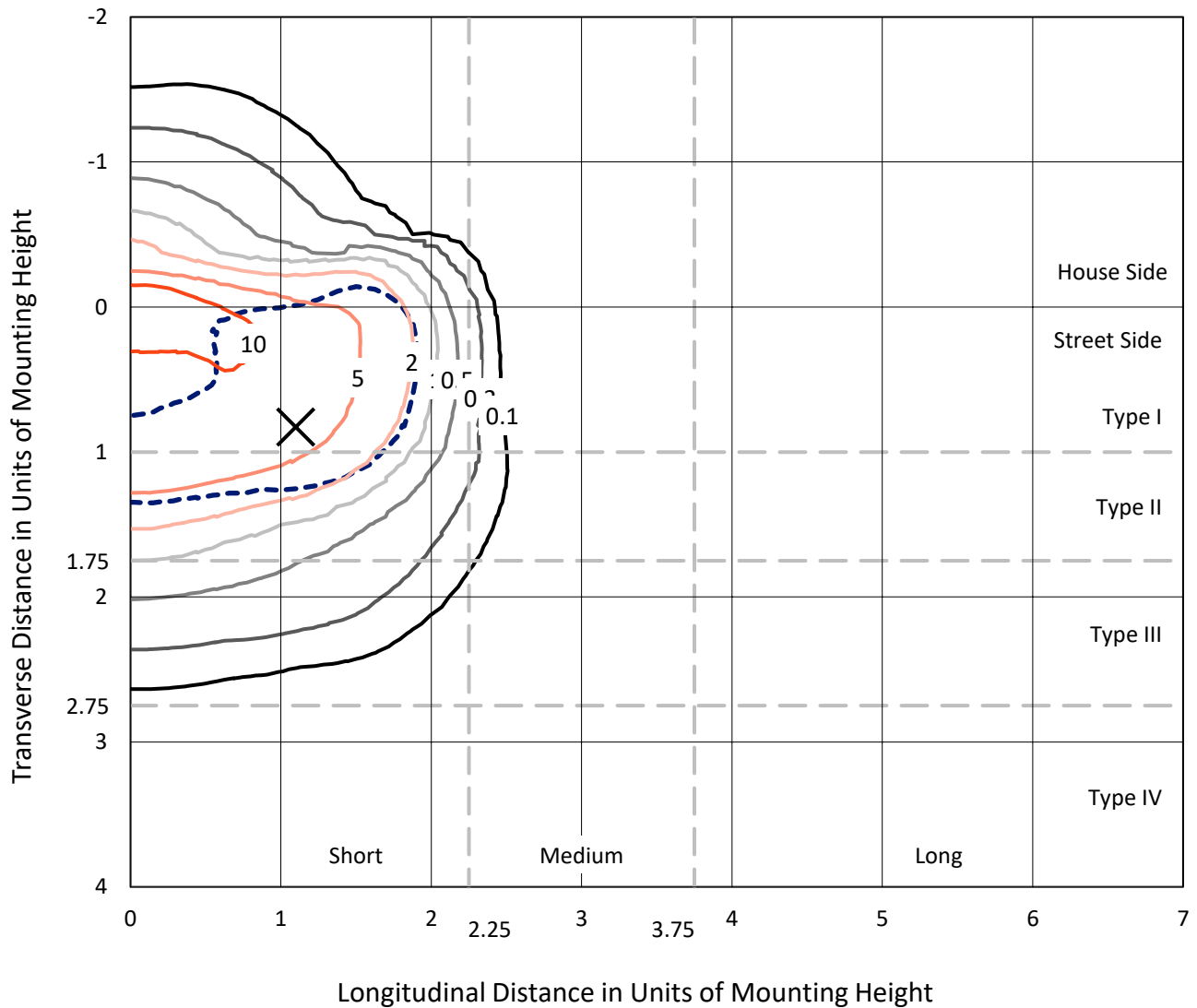
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

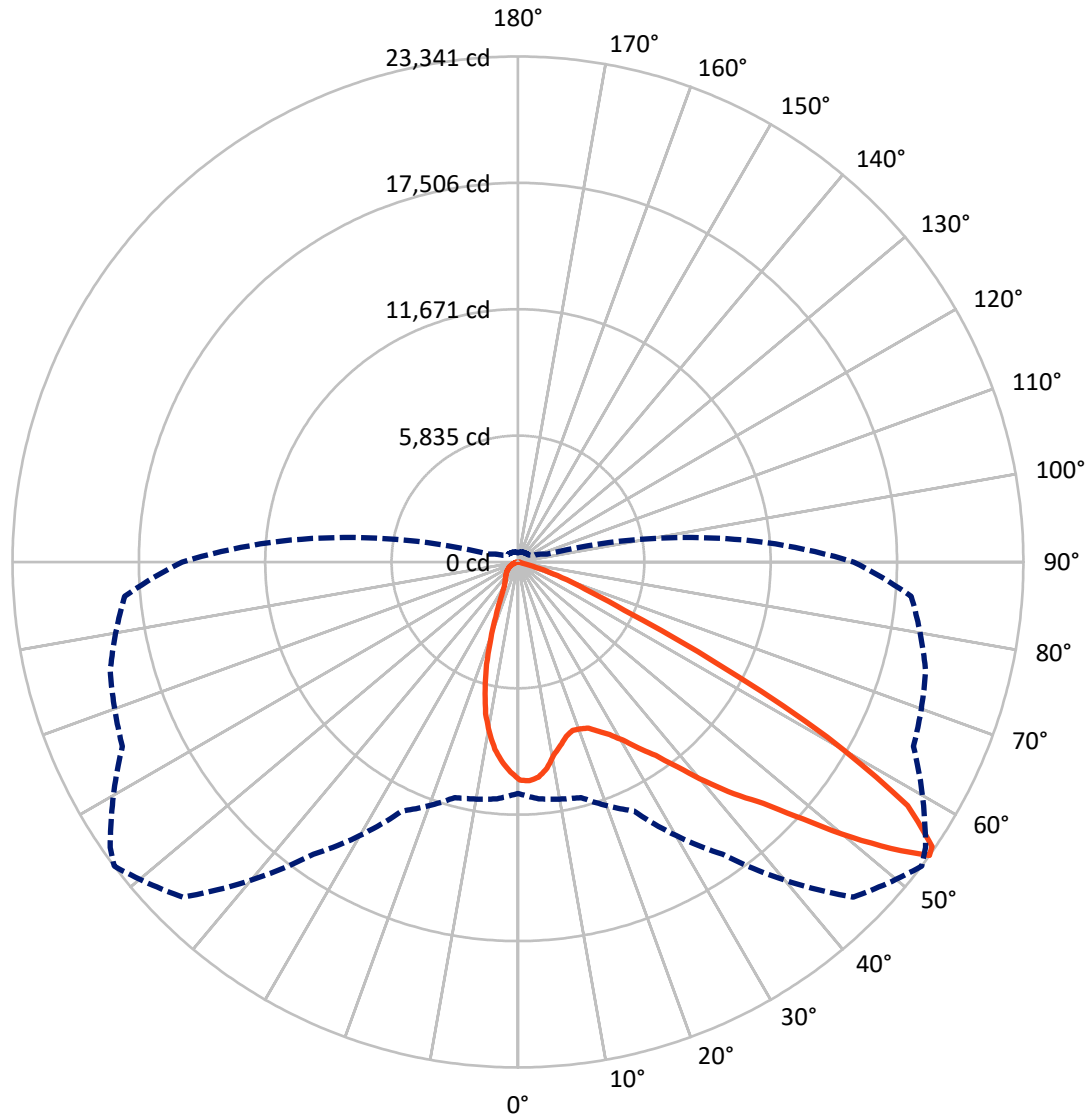
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

REPORT NUMBER: P533821
CATALOG NUMBER: GALN-SA9B-735-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4640.6	0.0	4640.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	23407.4	0.0	23407.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	28048.0	0.0	28048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	864.4	3.1
10°-20°	1981.7	7.1
20°-30°	2816.4	10.0
30°-40°	4346.5	15.5
40°-50°	6814.9	24.3
50°-60°	7916.4	28.2
60°-70°	2991.3	10.7
70°-80°	284.4	1.0
80°-90°	32.0	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°	28048.0	100.0
0°-180°	28048.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533821

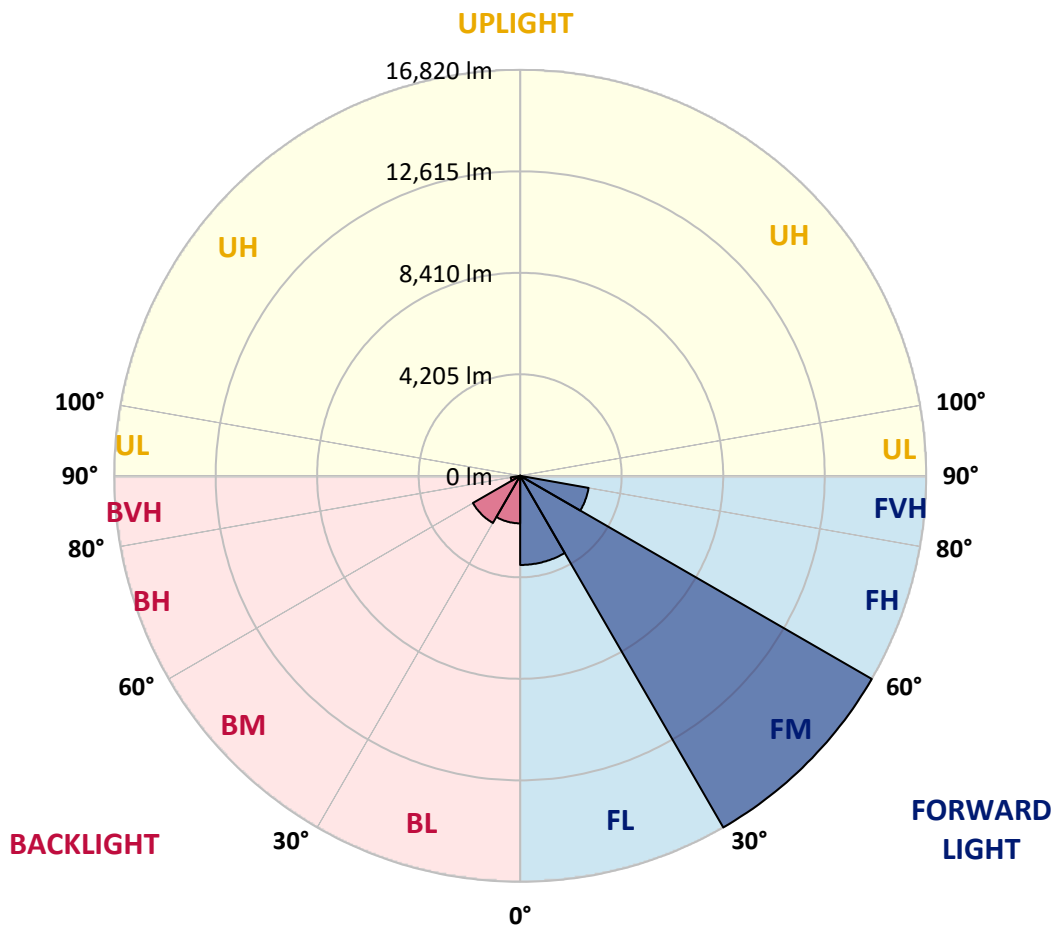
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3693.2	13.2			
FM (30°-60°)	16819.5	60.0			
FH (60°-80°)	2878.2	10.3			G2/5000
FVH (80°-90°)	16.5	0.1			G1/100
BL (0°-30°)	1969.3	7.0	B3/2500		
BM (30°-60°)	2258.3	8.1	B2/2500		
BH (60°-80°)	397.6	1.4	B1/500		G1/500
BVH (80°-90°)	15.5	0.1			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: P533821

CATALOG NUMBER: GALN-SA9B-735-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10074.4	10074.4	10074.4	10074.4	10074.4	10074.4	10074.4	10074.4	10074.4	10074.4	10074.4
2.5°	10022.1	9933.3	10022.1	10032.6	10095.3	10152.7	10116.2	10199.8	10152.7	10100.5	10084.8
5°	9212.2	9332.4	9337.6	9525.7	9483.9	9828.8	9980.3	9938.5	10194.6	10178.9	10142.3
7.5°	8485.9	8438.9	8501.6	8721.0	8998.0	9395.1	9614.5	9609.3	9975.1	10236.4	10210.2
10°	7811.8	7806.6	7937.2	8109.7	8344.8	8762.8	9065.9	9217.4	9787.0	10184.1	10241.6
12.5°	7357.2	7336.3	7477.4	7618.5	7989.5	8313.4	8700.1	8773.3	9426.4	10001.2	10095.3
15°	7059.4	7106.4	7116.9	7388.6	7623.7	8052.2	8355.2	8506.8	9259.2	9854.9	10215.5
17.5°	7007.1	7069.8	7075.0	7299.7	7550.6	7911.1	8177.6	8381.4	9118.1	9928.1	10220.7
20°	7111.6	7075.0	7106.4	7247.5	7493.1	7837.9	8224.6	8292.5	9071.1	9964.6	10278.2
22.5°	7409.5	7399.0	7320.6	7435.6	7608.0	7968.6	8334.3	8438.9	9207.0	10152.7	10325.2
25°	7738.7	7796.1	7723.0	7707.3	7827.5	8182.8	8668.8	8804.6	9661.6	10492.4	10471.5
27.5°	8355.2	8297.8	8297.8	8224.6	8193.3	8365.7	9029.3	9254.0	10168.4	10931.3	10638.7
30°	8945.7	9008.4	8961.4	8987.5	8778.5	8762.8	9541.4	9818.3	11067.2	11600.2	10994.0
32.5°	9881.0	9797.4	9875.8	9807.9	9530.9	9248.8	10236.4	10523.7	12154.0	12368.3	11527.0
35°	10659.6	10623.0	10957.4	10947.0	10497.6	10220.7	10973.1	11401.6	12911.7	13287.9	12154.0
37.5°	11767.4	11699.4	12080.9	12263.8	11861.4	11448.6	12028.6	12525.0	13617.1	14024.7	12796.7
40°	12906.5	13078.9	13591.0	13894.1	13465.6	12916.9	13319.3	13470.8	14087.4	14505.4	13235.7
42.5°	14348.7	14599.5	15122.0	15383.3	15346.7	14751.0	14630.8	14625.6	14427.0	14369.6	13559.6
45°	15733.4	15639.3	16444.0	17013.6	17473.4	17301.0	15895.3	15738.6	14965.2	14573.3	13643.2
47.5°	16339.5	16308.1	16856.8	17870.5	19438.1	19652.3	17734.7	17128.5	15874.4	15430.3	14097.8
50°	15555.7	15717.7	16261.1	17384.6	19788.2	21423.7	19992.0	19176.8	16935.2	16475.4	15174.3
52.5°	12995.3	13105.0	13622.3	15048.8	18596.8	22468.8	22155.3	21685.0	18884.2	18121.3	17050.1
54°	10685.7	10978.3	11260.5	12692.2	16475.4	21888.8	23341.4	22980.8	20154.0	19490.4	18231.1
55°	9306.3	9478.7	9682.5	11109.0	15007.0	20906.4	23205.5	23236.9	21005.7	19918.8	19025.3
57.5°	6798.1	6918.3	6709.3	7341.5	10304.3	16977.0	21225.1	22071.6	22155.3	20561.5	19511.3
60°	5193.9	5246.2	5011.1	5110.3	6406.2	11652.4	16417.9	17436.8	19986.8	17969.8	16527.6
62.5°	4028.7	4039.2	4033.9	4206.4	4415.4	6855.6	10267.7	11171.7	13779.1	12760.2	11223.9
65°	2968.0	2920.9	3004.5	3527.1	3767.4	4310.9	5408.2	6066.6	7487.8	6322.6	4519.9
67.5°	1922.9	1938.6	2022.2	2623.1	3229.2	3307.6	3328.5	3276.3	3281.5	1808.0	1133.9
70°	1154.8	1180.9	1154.8	1484.0	2309.6	2372.3	2168.5	2116.2	1651.2	428.5	423.2
72.5°	684.5	647.9	580.0	637.5	961.5	1149.6	1034.6	1029.4	647.9	250.8	250.8
75°	287.4	261.3	214.2	193.3	256.0	245.6	245.6	219.5	172.4	167.2	156.8
77.5°	57.5	57.5	41.8	47.0	62.7	73.2	88.8	88.8	104.5	104.5	99.3
80°	0.0	5.2	15.7	31.4	47.0	67.9	78.4	78.4	88.8	88.8	73.2
82.5°	0.0	5.2	15.7	31.4	41.8	62.7	78.4	78.4	88.8	94.1	78.4
85°	0.0	5.2	15.7	26.1	41.8	52.3	52.3	47.0	36.6	31.4	20.9
87.5°	0.0	0.0	5.2	10.5	5.2	10.5	10.5	10.5	10.5	10.5	10.5
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°	10074.4	10074.4	10074.4	10074.4	10074.4	10074.4	10074.4	10074.4	10074.4	10074.4	10074.4
2.5°	10121.4	10116.2	9990.8	9787.0	9739.9	9567.5	9546.6	9442.1	9499.6	9306.3	9285.3
5°	10037.8	9975.1	9823.6	9692.9	9311.5	9039.8	8825.5	8564.3	8412.7	8438.9	8339.6
7.5°	10158.0	9996.0	9729.5	9274.9	8809.8	8334.3	8078.3	7545.3	7352.0	7064.6	7022.8
10°	10032.6	9912.4	9499.6	8747.1	8104.4	7419.9	6819.0	6228.6	5779.2	5585.8	5544.0
12.5°	10022.1	9813.1	9123.4	8287.3	7357.2	6374.9	5502.2	4765.5	4321.3	4070.5	4013.0
15°	9860.1	9609.3	8700.1	7576.7	6291.3	5068.5	4117.5	3406.9	3067.2	2920.9	2962.7
17.5°	9875.8	9499.6	8276.9	6824.2	5241.0	3720.4	2811.2	2445.4	2356.6	2393.2	2393.2
20°	9860.1	9254.0	7764.8	5956.8	4013.0	2581.3	2064.0	1933.4	1990.8	2105.8	2079.7
22.5°	9776.5	9139.0	7294.5	5042.4	2952.3	1912.5	1656.4	1661.6	1750.5	1891.6	1922.9
25°	9839.2	8883.0	6698.8	4117.5	2152.8	1525.8	1437.0	1473.5	1567.6	1672.1	1693.0
27.5°	9792.2	8700.1	6077.0	3197.9	1572.8	1311.5	1306.3	1348.1	1389.9	1468.3	1468.3
30°	9844.5	8532.9	5465.7	2377.5	1295.9	1201.8	1180.9	1212.3	1254.1	1269.7	1264.5
32.5°	10037.8	8407.5	4760.2	1776.6	1144.3	1097.3	1097.3	1097.3	1092.1	1113.0	1118.2
35°	10461.0	8428.4	4138.4	1374.3	1045.1	1008.5	992.8	971.9	961.5	971.9	977.1
37.5°	10920.9	8418.0	3495.7	1170.5	971.9	940.6	904.0	872.6	867.4	877.8	862.2
40°	11124.7	8517.2	2900.0	1050.3	904.0	867.4	809.9	783.8	789.0	799.5	789.0
42.5°	11401.6	8548.6	2513.4	956.2	841.3	783.8	747.2	715.9	710.6	726.3	721.1
45°	11396.4	8370.9	2105.8	904.0	783.8	721.1	674.1	647.9	647.9	658.4	663.6
47.5°	11730.8	8344.8	1808.0	856.9	742.0	679.3	621.8	600.9	595.7	595.7	585.2
50°	12509.4	8710.6	1578.0	804.7	689.7	632.3	585.2	559.1	538.2	527.8	522.5
52.5°	14029.9	9849.7	1400.4	742.0	632.3	585.2	543.4	522.5	496.4	470.3	465.1
54°	15503.5	11025.4	1389.9	689.7	585.2	553.9	517.3	506.9	475.5	438.9	428.5
55°	16167.1	11709.9	1426.5	647.9	553.9	533.0	501.6	491.2	459.8	418.0	412.8
57.5°	16715.7	11976.4	1405.6	538.2	501.6	496.4	470.3	454.6	418.0	360.5	350.1
60°	13455.1	9055.4	1008.5	475.5	459.8	449.4	428.5	418.0	371.0	308.3	303.1
62.5°	8501.6	5209.6	642.7	418.0	402.3	386.7	360.5	350.1	308.3	245.6	229.9
65°	3621.1	2158.0	433.7	371.0	344.9	318.7	297.8	282.2	245.6	182.9	177.7
67.5°	940.6	768.1	360.5	324.0	287.4	250.8	235.1	209.0	167.2	125.4	120.2
70°	423.2	386.7	303.1	271.7	229.9	193.3	172.4	146.3	109.7	83.6	78.4
72.5°	250.8	245.6	229.9	203.8	172.4	146.3	125.4	99.3	73.2	47.0	47.0
75°	156.8	151.5	156.8	141.1	120.2	109.7	94.1	67.9	41.8	20.9	20.9
77.5°	94.1	94.1	94.1	88.8	83.6	83.6	67.9	41.8	20.9	5.2	5.2
80°	73.2	73.2	78.4	73.2	73.2	73.2	57.5	31.4	10.5	0.0	0.0
82.5°	73.2	78.4	88.8	83.6	73.2	62.7	52.3	31.4	10.5	0.0	0.0
85°	20.9	15.7	26.1	36.6	52.3	47.0	36.6	26.1	10.5	0.0	0.0
87.5°	10.5	10.5	10.5	10.5	5.2	5.2	5.2	5.2	5.2	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)