

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: P534005

Luminaire Tested: **GALN-SA9C-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534005
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-SA9C-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 31171 lumens
Efficiency: N/A
Efficacy: 64.8 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

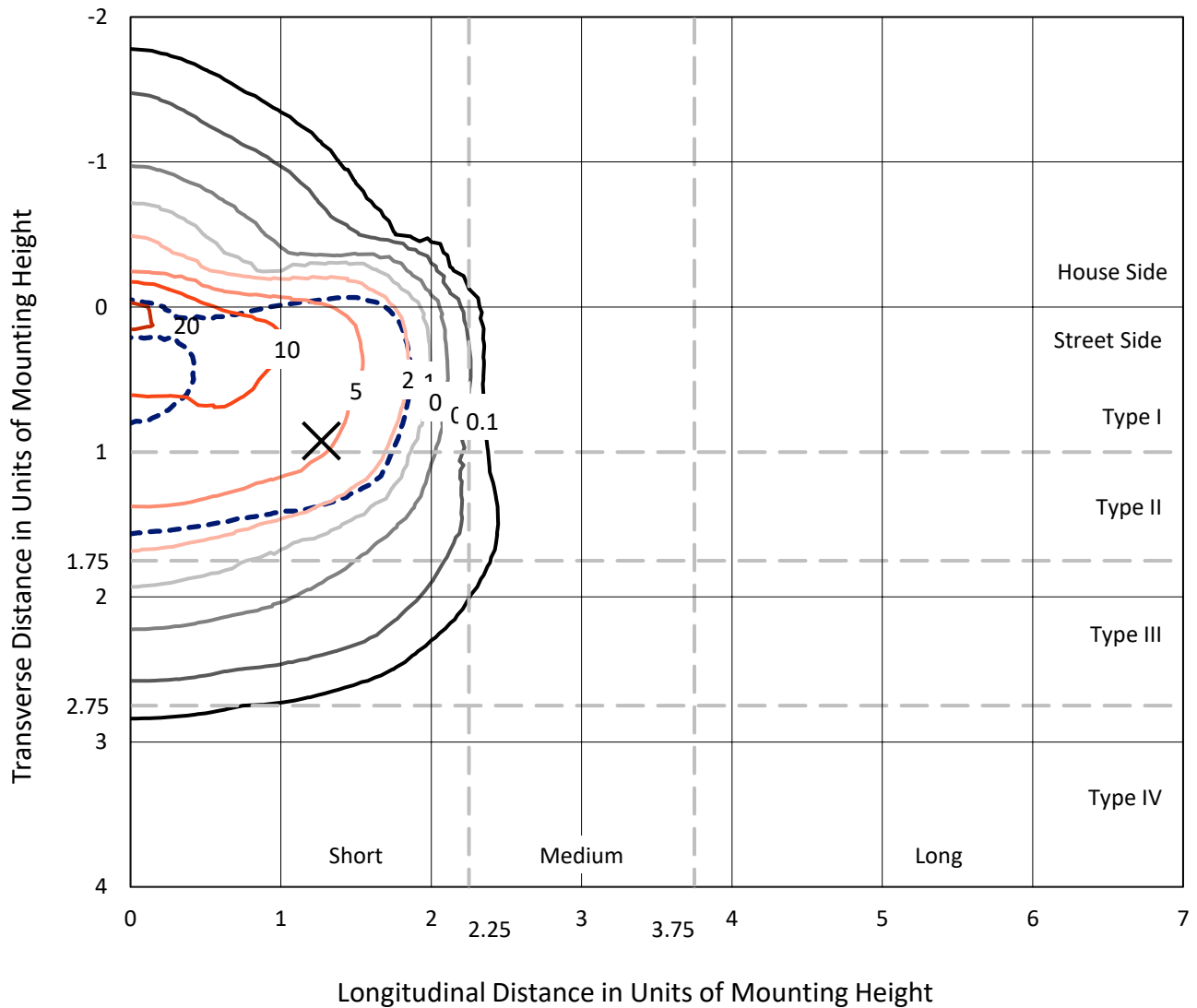
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

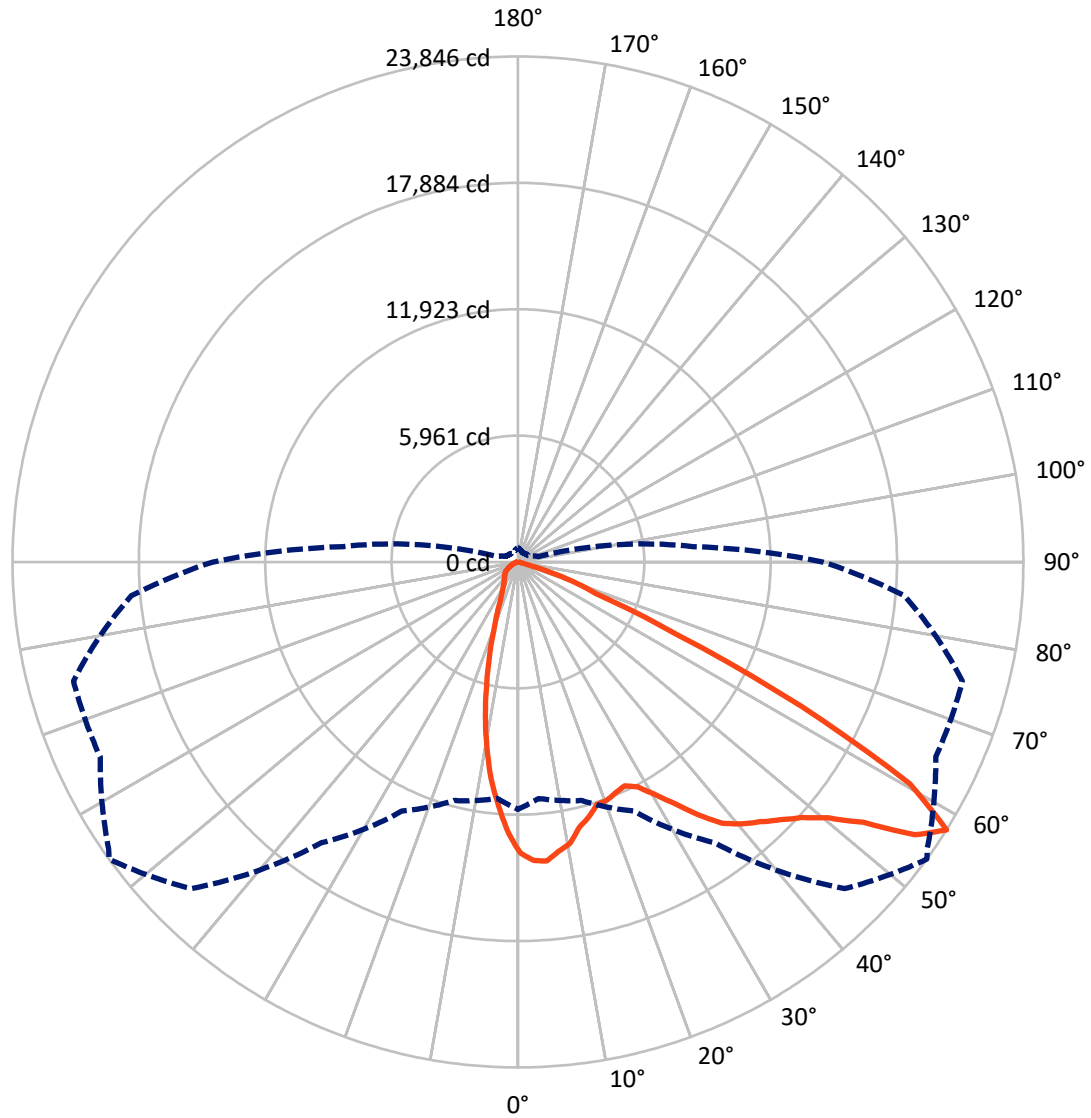
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4405.0	0.0	4405.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	26766.0	0.0	26766.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	31171.0	0.0	31171.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1149.1	3.7
10°-20°	2453.2	7.9
20°-30°	3251.0	10.4
30°-40°	4724.6	15.2
40°-50°	7006.0	22.5
50°-60°	8760.6	28.1
60°-70°	3455.7	11.1
70°-80°	344.1	1.1
80°-90°	26.8	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°	31171.0	100.0
0°-180°	31171.0	100.0

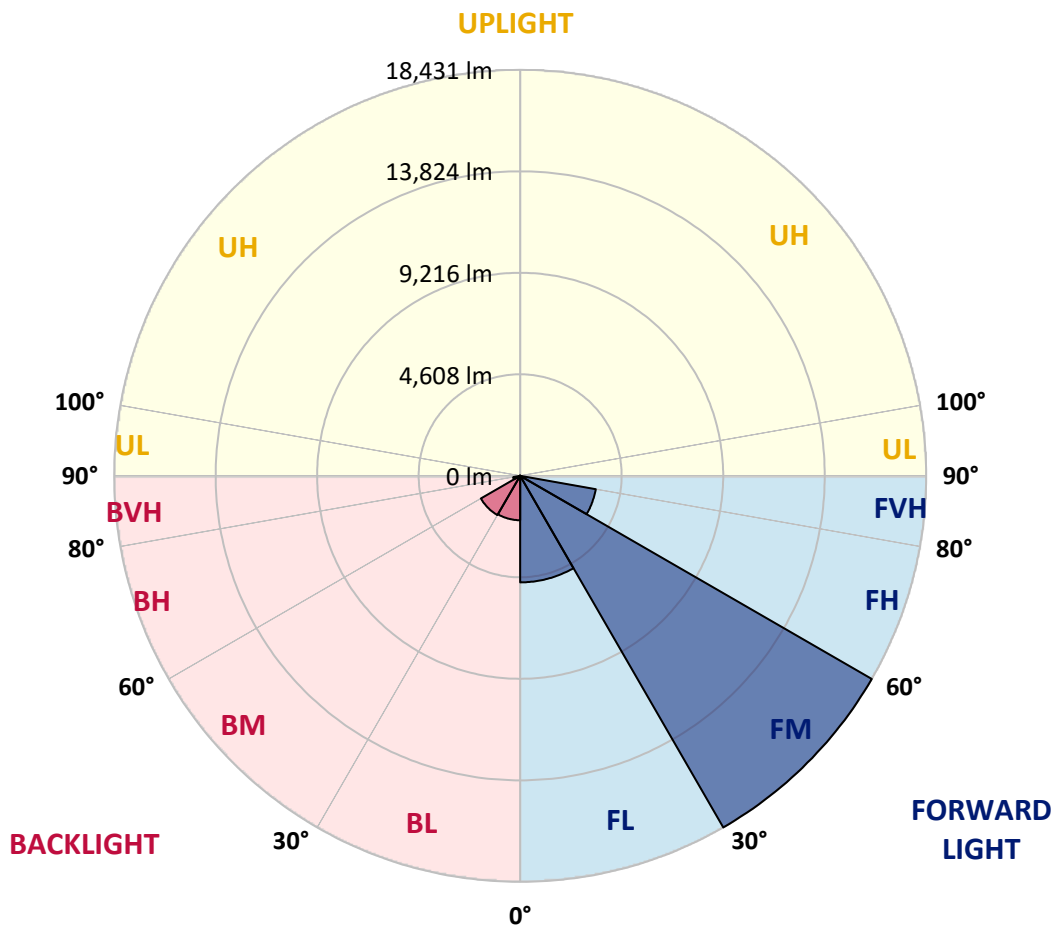


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4838.6	15.5			
FM (30°-60°)	18431.3	59.1			
FH (60°-80°)	3483.9	11.2			G2/5000
FVH (80°-90°)	12.1	0.0			G1/100
BL (0°-30°)	2014.6	6.5	B3/2500		
BM (30°-60°)	2059.9	6.6	B2/2500		
BH (60°-80°)	315.9	1.0	B1/500		G1/500
BVH (80°-90°)	14.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13731.2	13731.2	13731.2	13731.2	13731.2	13731.2	13731.2	13731.2	13731.2	13731.2	13731.2
2.5°	14531.1	14380.4	14392.0	14339.8	14270.3	14322.5	14096.4	14148.6	14142.8	13835.6	13632.7
5°	14166.0	14328.3	14160.2	14299.3	14166.0	14310.9	14171.8	14067.4	13899.3	13673.3	13296.5
7.5°	13545.8	13389.3	13435.6	13609.5	13638.5	13963.1	13789.2	13922.5	13853.0	13406.7	12890.8
10°	12299.6	12264.8	12496.7	12728.5	13012.5	13360.3	13493.6	13418.2	13366.1	13198.0	12508.2
12.5°	11343.2	11441.7	11435.9	11818.5	12299.6	12496.7	12844.4	12832.8	13122.6	12809.6	12148.9
15°	10433.2	10485.4	10728.8	10966.4	11499.7	12061.9	12490.9	12548.8	12896.6	12676.3	11870.7
17.5°	9876.8	9801.4	9992.7	10276.7	10821.5	11557.7	12033.0	12172.1	12647.4	12601.0	11551.9
20°	9326.1	9326.1	9482.6	9818.8	10317.3	11146.1	11992.4	11951.8	12647.4	12514.0	11209.9
22.5°	9140.6	9233.4	9274.0	9529.0	10120.2	10833.1	11818.5	11893.8	12745.9	12473.5	11059.2
25°	9395.7	9274.0	9285.5	9488.4	10044.8	10682.4	11691.0	11859.1	12925.6	12676.3	10937.5
27.5°	9436.2	9558.0	9592.7	9731.9	10102.8	10728.8	12009.8	12351.7	13371.9	13151.6	10972.2
30°	9789.8	9911.5	9905.7	10143.4	10398.4	11105.6	12722.7	12792.3	14293.5	13748.6	11186.7
32.5°	10218.7	10346.3	10386.8	10665.0	10867.9	11795.3	13592.1	13771.8	15180.3	14687.6	11748.9
35°	10752.0	10705.6	10891.1	11169.3	11604.0	12803.8	14652.8	14954.2	16136.7	15904.8	12328.6
37.5°	11418.6	11360.6	11540.3	11992.4	12583.6	13997.9	15632.4	15829.5	16832.2	17035.1	13400.9
40°	11888.0	11911.2	12456.1	13064.7	13690.7	15133.9	16252.6	16443.9	17319.1	18090.0	14212.3
42.5°	12670.5	12815.4	13470.4	14212.3	14867.3	15986.0	16756.9	16942.4	17545.2	18936.3	15307.8
45°	13806.6	13742.8	14467.4	15296.2	16020.8	16872.8	17353.9	17290.1	17678.5	19776.7	15997.6
47.5°	15267.2	15278.8	15759.9	16467.1	17220.6	17643.7	18020.4	17794.4	17956.7	20663.5	16919.2
50°	16264.2	16351.1	16739.5	17464.0	17840.8	18489.9	18971.0	18831.9	18779.8	21196.8	17498.8
52.5°	16519.2	16780.1	16988.7	17892.9	18774.0	19799.9	20414.3	20709.9	19782.5	21376.5	18234.9
55°	14594.9	14826.7	15562.9	16803.2	19127.5	21874.9	22721.2	22727.0	21092.4	22176.3	18750.8
57.5°	11667.8	11198.3	11650.4	12966.1	16171.5	21788.0	23845.6	23573.2	21747.4	21706.8	18304.5
60°	8068.3	7952.4	7981.4	8503.1	11192.5	17330.7	21248.9	21602.5	20025.9	18814.5	14490.5
62.5°	6393.2	6294.7	6167.2	6109.2	6949.7	10798.4	14989.0	15487.5	14003.7	12201.0	8590.0
65°	5007.9	4950.0	4967.4	5199.2	5193.4	6126.6	8195.9	7993.0	6399.0	4729.7	2701.0
67.5°	3379.2	3466.1	3535.7	4237.0	4596.4	4266.0	3958.8	3842.9	2080.8	875.2	597.0
70°	1901.2	1912.8	1988.1	2648.9	3489.3	3309.6	2730.0	2730.0	1037.5	318.8	342.0
72.5°	1037.5	1002.7	933.2	1141.9	1553.4	1576.6	1217.2	1060.7	307.2	208.7	191.3
75°	504.3	498.5	428.9	353.6	336.2	278.2	214.5	197.1	139.1	133.3	115.9
77.5°	104.3	98.5	52.2	52.2	58.0	63.8	81.1	81.1	98.5	98.5	81.1
80°	0.0	0.0	5.8	23.2	40.6	58.0	69.6	69.6	81.1	81.1	63.8
82.5°	0.0	0.0	5.8	17.4	34.8	52.2	63.8	69.6	81.1	86.9	69.6
85°	0.0	0.0	0.0	11.6	29.0	40.6	34.8	34.8	29.0	23.2	11.6
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13731.2	13731.2	13731.2	13731.2	13731.2	13731.2	13731.2	13731.2	13731.2	13731.2	13731.2
2.5°	13528.4	13516.8	13250.2	13099.5	12827.0	12589.4	12398.1	12259.0	12259.0	12172.1	12090.9
5°	13145.8	13047.3	12479.3	12114.1	11598.2	11215.7	10954.9	10752.0	10433.2	10520.1	10178.2
7.5°	12670.5	12421.3	11667.8	11111.4	10398.4	9853.6	9297.1	8804.5	8329.2	8114.7	8230.6
10°	12160.5	11725.8	10711.4	9830.4	8943.6	7946.6	7297.4	6509.2	6022.3	5993.3	5865.8
12.5°	11621.4	11128.7	9894.1	8676.9	7511.9	6312.1	5320.9	4584.8	4254.4	3889.3	3958.8
15°	11215.7	10485.4	8984.1	7517.7	5970.1	4758.7	3761.7	3193.7	2880.7	2793.8	2764.8
17.5°	10775.2	9992.7	8056.7	6283.1	4683.3	3425.6	2706.8	2434.4	2312.7	2312.7	2295.3
20°	10317.3	9436.2	7135.1	5135.5	3512.5	2556.1	2167.8	2080.8	2075.0	2069.3	2069.3
22.5°	10015.9	8798.7	6300.5	4080.5	2648.9	2046.1	1883.8	1849.0	1872.2	1941.7	1941.7
25°	9697.1	8184.3	5378.9	3147.3	2051.9	1756.3	1663.5	1686.7	1744.7	1808.4	1785.2
27.5°	9372.5	7784.3	4509.5	2469.2	1680.9	1536.0	1501.2	1553.4	1617.1	1675.1	1657.7
30°	9297.1	7355.4	3686.4	1872.2	1443.3	1338.9	1362.1	1408.5	1472.2	1495.4	1518.6
32.5°	9413.1	7019.2	3019.8	1536.0	1257.8	1228.8	1228.8	1252.0	1292.6	1344.7	1327.3
35°	9743.4	6827.9	2388.0	1333.1	1153.4	1124.5	1118.7	1141.9	1165.0	1182.4	1165.0
37.5°	10247.7	6677.2	1953.3	1182.4	1083.9	1037.5	1025.9	1020.1	1043.3	1049.1	1060.7
40°	10891.1	6758.4	1657.7	1089.7	1014.3	962.2	927.4	927.4	927.4	944.8	950.6
42.5°	11586.6	6868.5	1431.7	1037.5	950.6	886.8	852.0	840.5	852.0	875.2	869.4
45°	12317.0	7083.0	1286.8	956.4	892.6	811.5	765.1	753.5	782.5	828.9	823.1
47.5°	13000.9	7390.2	1176.6	904.2	834.7	759.3	701.3	689.8	741.9	805.7	811.5
50°	13684.9	7923.4	1136.1	863.6	794.1	707.1	655.0	643.4	701.3	782.5	799.9
52.5°	14473.2	8497.3	1107.1	811.5	747.7	666.6	608.6	597.0	660.8	765.1	770.9
55°	14989.0	8984.1	1083.9	718.7	660.8	602.8	556.4	550.6	620.2	712.9	736.1
57.5°	14386.2	8306.0	1002.7	626.0	562.2	533.3	492.7	492.7	550.6	637.6	655.0
60°	10908.5	5465.8	712.9	504.3	475.3	457.9	440.5	440.5	486.9	550.6	556.4
62.5°	6387.4	2944.5	457.9	405.7	405.7	388.3	359.4	359.4	405.7	440.5	446.3
65°	1895.4	944.8	371.0	347.8	342.0	313.0	284.0	278.2	313.0	330.4	324.6
67.5°	544.8	434.7	307.2	289.8	284.0	237.6	220.3	214.5	220.3	208.7	202.9
70°	324.6	295.6	237.6	243.4	214.5	173.9	156.5	150.7	139.1	121.7	110.1
72.5°	179.7	179.7	173.9	185.5	150.7	115.9	98.5	81.1	63.8	52.2	46.4
75°	110.1	115.9	121.7	127.5	98.5	75.4	63.8	40.6	23.2	11.6	11.6
77.5°	75.4	81.1	86.9	92.7	81.1	69.6	52.2	29.0	5.8	0.0	0.0
80°	58.0	63.8	75.4	81.1	86.9	92.7	69.6	29.0	5.8	0.0	0.0
82.5°	63.8	69.6	86.9	81.1	81.1	81.1	63.8	29.0	5.8	0.0	0.0
85°	11.6	17.4	29.0	29.0	40.6	52.2	40.6	11.6	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)