

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: P530495

Luminaire Tested: **GALN-SA5D-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530495
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-SA5D-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA 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: 18947 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

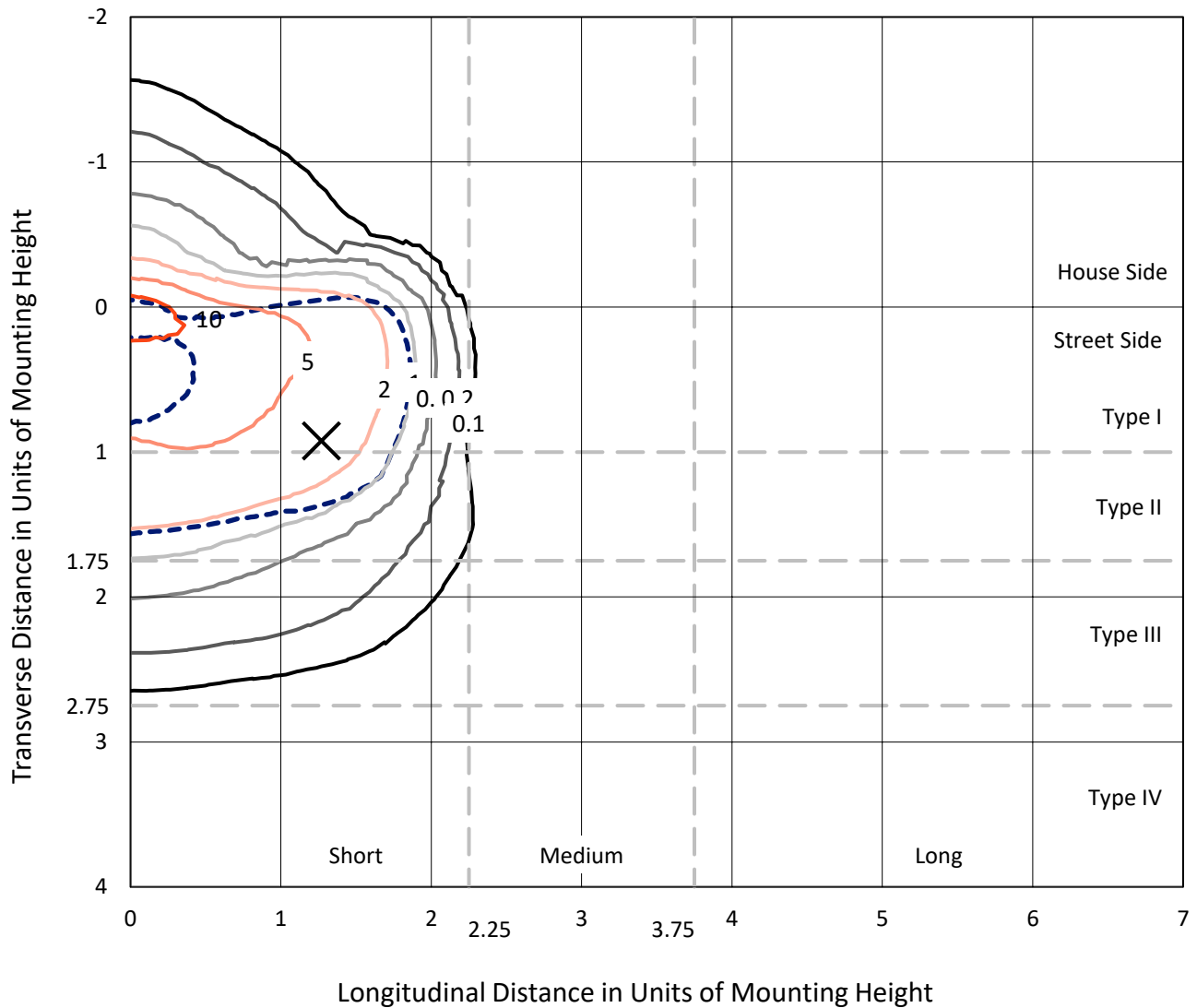
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

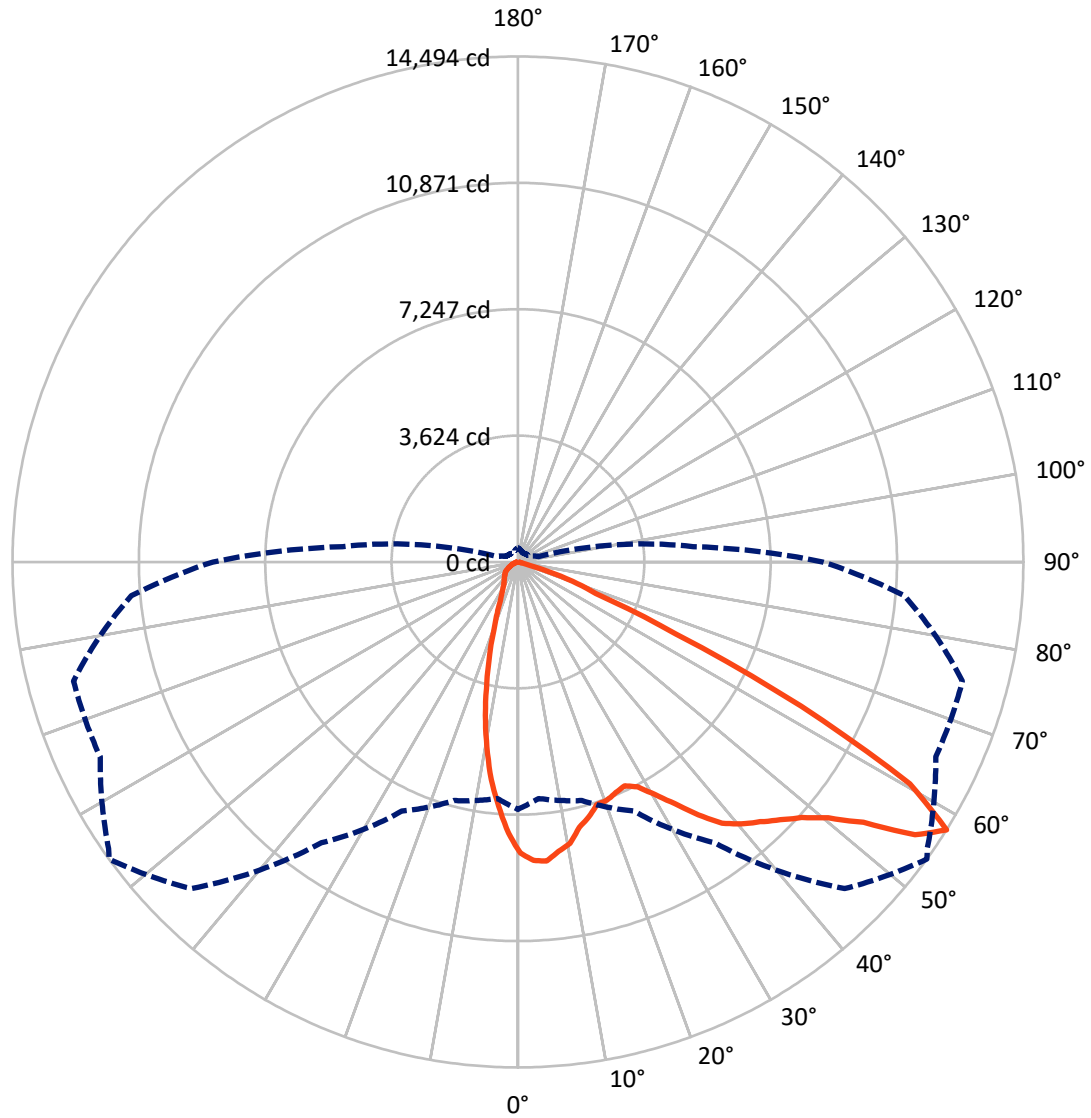
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	2677.5	0.0	2677.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16269.5	0.0	16269.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	18947.0	0.0	18947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.4	3.7
10°-20°	1491.2	7.9
20°-30°	1976.1	10.4
30°-40°	2871.8	15.2
40°-50°	4258.5	22.5
50°-60°	5325.1	28.1
60°-70°	2100.5	11.1
70°-80°	209.1	1.1
80°-90°	16.3	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°	18947.0	100.0
0°-180°	18947.0	100.0

Coefficient of Utilization



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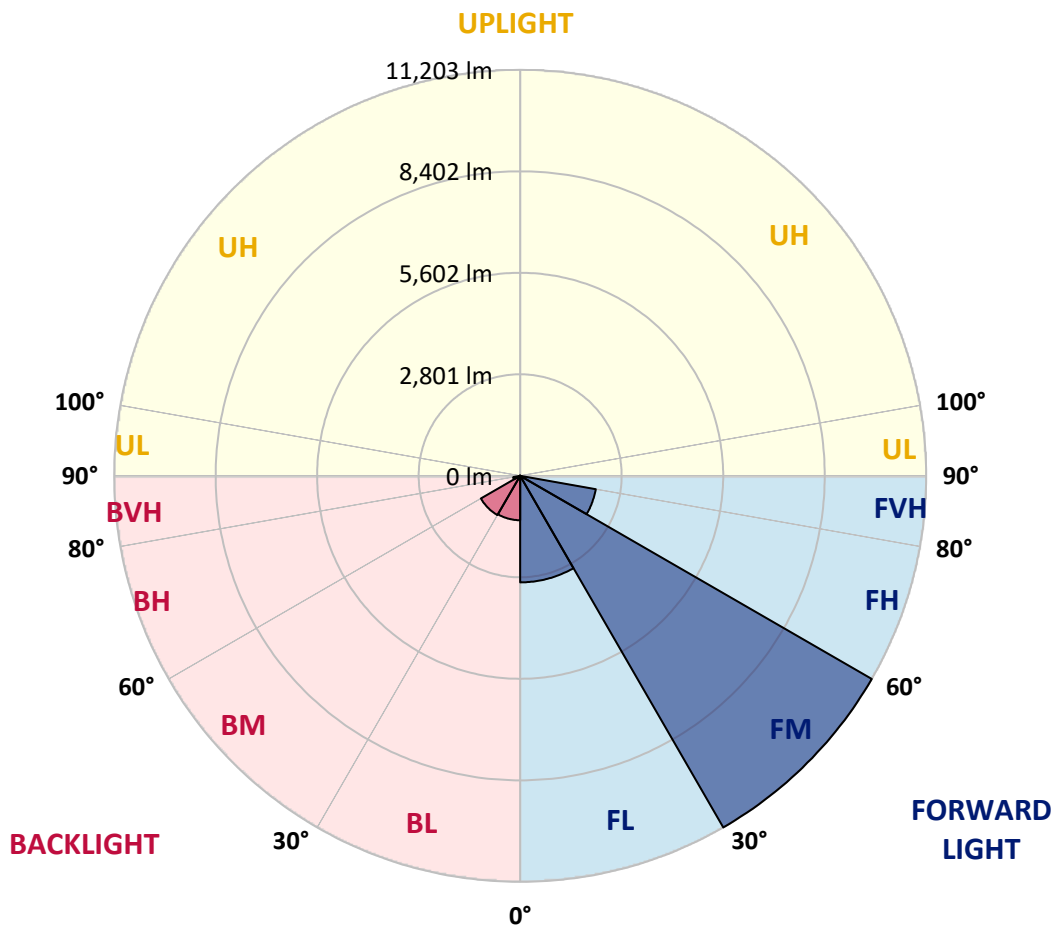
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2941.1	15.5			
FM (30°-60°)	11203.3	59.1			
FH (60°-80°)	2117.6	11.2			G2/5000
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	1224.6	6.5	B3/2500		
BM (30°-60°)	1252.1	6.6	B2/2500		
BH (60°-80°)	192.0	1.0	B1/500		G1/500
BVH (80°-90°)	8.9	0.0			G0/10
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°	8346.4	8346.4	8346.4	8346.4	8346.4	8346.4	8346.4	8346.4	8346.4	8346.4	8346.4
2.5°	8832.6	8741.0	8748.1	8716.3	8674.1	8705.8	8568.4	8600.1	8596.6	8409.8	8286.5
5°	8610.6	8709.3	8607.1	8691.7	8610.6	8698.7	8614.2	8550.8	8448.6	8311.2	8082.2
7.5°	8233.7	8138.5	8166.7	8272.4	8290.0	8487.3	8381.6	8462.7	8420.4	8149.1	7835.5
10°	7476.2	7455.0	7596.0	7736.9	7909.5	8120.9	8202.0	8156.2	8124.4	8022.3	7603.0
12.5°	6894.9	6954.8	6951.2	7183.8	7476.2	7596.0	7807.4	7800.3	7976.5	7786.2	7384.6
15°	6341.7	6373.4	6521.4	6665.9	6990.0	7331.7	7592.4	7627.7	7839.1	7705.2	7215.5
17.5°	6003.5	5957.7	6074.0	6246.6	6577.8	7025.2	7314.1	7398.7	7687.6	7659.4	7021.7
20°	5668.8	5668.8	5763.9	5968.3	6271.3	6775.1	7289.5	7264.8	7687.6	7606.5	6813.8
22.5°	5556.1	5612.4	5637.1	5792.1	6151.5	6584.8	7183.8	7229.6	7747.5	7581.9	6722.2
25°	5711.1	5637.1	5644.1	5767.4	6105.7	6493.2	7106.2	7208.4	7856.7	7705.2	6648.2
27.5°	5735.7	5809.7	5830.9	5915.4	6140.9	6521.4	7300.0	7507.9	8128.0	7994.1	6669.4
30°	5950.6	6024.6	6021.1	6165.6	6320.6	6750.4	7733.4	7775.7	8688.2	8357.0	6799.7
32.5°	6211.4	6288.9	6313.5	6482.6	6606.0	7169.7	8261.9	8371.1	9227.2	8927.7	7141.5
35°	6535.5	6507.3	6620.1	6789.2	7053.4	7782.7	8906.6	9089.8	9808.5	9667.6	7493.8
37.5°	6940.7	6905.4	7014.6	7289.5	7648.8	8508.5	9502.0	9621.8	10231.3	10354.6	8145.6
40°	7226.0	7240.1	7571.3	7941.2	8321.7	9199.0	9879.0	9995.3	10527.3	10995.8	8638.8
42.5°	7701.7	7789.7	8187.9	8638.8	9037.0	9716.9	10185.5	10298.2	10664.7	11510.2	9304.7
45°	8392.2	8353.5	8793.9	9297.7	9738.1	10256.0	10548.4	10509.6	10745.7	12021.1	9724.0
47.5°	9280.1	9287.1	9579.5	10009.3	10467.4	10724.6	10953.6	10816.2	10914.8	12560.1	10284.2
50°	9886.0	9938.9	10174.9	10615.3	10844.3	11238.9	11531.4	11446.8	11415.1	12884.3	10636.5
52.5°	10041.1	10199.6	10326.4	10876.1	11411.6	12035.2	12408.6	12588.3	12024.6	12993.5	11083.9
55°	8871.4	9012.3	9459.7	10213.7	11626.5	13296.5	13810.9	13814.4	12820.8	13479.7	11397.5
57.5°	7092.2	6806.8	7081.6	7881.3	9829.7	13243.6	14494.4	14328.8	13219.0	13194.3	11126.2
60°	4904.3	4833.8	4851.4	5168.5	6803.3	10534.3	12916.0	13130.9	12172.6	11436.2	8807.9
62.5°	3886.1	3826.2	3748.7	3713.4	4224.3	6563.7	9110.9	9413.9	8512.0	7416.3	5221.3
65°	3044.0	3008.8	3019.4	3160.3	3156.8	3724.0	4981.8	4858.5	3889.6	2874.9	1641.8
67.5°	2054.0	2106.9	2149.1	2575.4	2793.9	2593.1	2406.3	2335.9	1264.8	532.0	362.9
70°	1155.6	1162.6	1208.5	1610.1	2121.0	2011.7	1659.4	1659.4	630.6	193.8	207.9
72.5°	630.6	609.5	567.2	694.1	944.2	958.3	739.9	644.7	186.7	126.8	116.3
75°	306.5	303.0	260.7	214.9	204.3	169.1	130.4	119.8	84.6	81.0	70.5
77.5°	63.4	59.9	31.7	31.7	35.2	38.8	49.3	49.3	59.9	59.9	49.3
80°	0.0	0.0	3.5	14.1	24.7	35.2	42.3	42.3	49.3	49.3	38.8
82.5°	0.0	0.0	3.5	10.6	21.1	31.7	38.8	42.3	49.3	52.8	42.3
85°	0.0	0.0	0.0	7.0	17.6	24.7	21.1	21.1	17.6	14.1	7.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8346.4	8346.4	8346.4	8346.4	8346.4	8346.4	8346.4	8346.4	8346.4	8346.4	8346.4
2.5°	8223.1	8216.1	8054.0	7962.4	7796.8	7652.3	7536.1	7451.5	7451.5	7398.7	7349.3
5°	7990.6	7930.7	7585.4	7363.4	7049.9	6817.3	6658.8	6535.5	6341.7	6394.6	6186.7
7.5°	7701.7	7550.2	7092.2	6753.9	6320.6	5989.4	5651.2	5351.7	5062.8	4932.4	5002.9
10°	7391.6	7127.4	6510.8	5975.3	5436.3	4830.3	4435.7	3956.5	3660.6	3643.0	3565.5
12.5°	7064.0	6764.5	6014.1	5274.2	4566.0	3836.7	3234.3	2786.8	2586.0	2364.1	2406.3
15°	6817.3	6373.4	5460.9	4569.6	3628.9	2892.5	2286.5	1941.3	1751.0	1698.2	1680.6
17.5°	6549.6	6074.0	4897.2	3819.1	2846.7	2082.2	1645.3	1479.7	1405.7	1405.7	1395.2
20°	6271.3	5735.7	4337.0	3121.5	2135.0	1553.7	1317.7	1264.8	1261.3	1257.8	1257.8
22.5°	6088.1	5348.2	3829.7	2480.3	1610.1	1243.7	1145.0	1123.9	1138.0	1180.3	1180.3
25°	5894.3	4974.7	3269.5	1913.1	1247.2	1067.5	1011.2	1025.2	1060.5	1099.2	1085.1
27.5°	5697.0	4731.6	2741.0	1500.9	1021.7	933.6	912.5	944.2	983.0	1018.2	1007.6
30°	5651.2	4470.9	2240.7	1138.0	877.3	813.9	827.9	856.1	894.9	909.0	923.1
32.5°	5721.6	4266.6	1835.6	933.6	764.5	746.9	746.9	761.0	785.7	817.4	806.8
35°	5922.5	4150.3	1451.5	810.3	701.1	683.5	680.0	694.1	708.2	718.7	708.2
37.5°	6229.0	4058.7	1187.3	718.7	658.8	630.6	623.6	620.1	634.2	637.7	644.7
40°	6620.1	4108.0	1007.6	662.4	616.6	584.8	563.7	563.7	563.7	574.3	577.8
42.5°	7042.8	4175.0	870.2	630.6	577.8	539.0	517.9	510.9	517.9	532.0	528.5
45°	7486.8	4305.3	782.1	581.3	542.6	493.2	465.1	458.0	475.6	503.8	500.3
47.5°	7902.5	4492.1	715.2	549.6	507.3	461.5	426.3	419.3	451.0	489.7	493.2
50°	8318.2	4816.2	690.5	525.0	482.7	429.8	398.1	391.1	426.3	475.6	486.2
52.5°	8797.4	5165.0	672.9	493.2	454.5	405.2	369.9	362.9	401.6	465.1	468.6
55°	9110.9	5460.9	658.8	436.9	401.6	366.4	338.2	334.7	377.0	433.4	447.4
57.5°	8744.5	5048.7	609.5	380.5	341.7	324.1	299.5	299.5	334.7	387.5	398.1
60°	6630.6	3322.4	433.4	306.5	288.9	278.3	267.8	267.8	295.9	334.7	338.2
62.5°	3882.5	1789.8	278.3	246.6	246.6	236.1	218.4	218.4	246.6	267.8	271.3
65°	1152.1	574.3	225.5	211.4	207.9	190.3	172.6	169.1	190.3	200.8	197.3
67.5°	331.2	264.2	186.7	176.2	172.6	144.5	133.9	130.4	133.9	126.8	123.3
70°	197.3	179.7	144.5	148.0	130.4	105.7	95.1	91.6	84.6	74.0	66.9
72.5°	109.2	109.2	105.7	112.7	91.6	70.5	59.9	49.3	38.8	31.7	28.2
75°	66.9	70.5	74.0	77.5	59.9	45.8	38.8	24.7	14.1	7.0	7.0
77.5°	45.8	49.3	52.8	56.4	49.3	42.3	31.7	17.6	3.5	0.0	0.0
80°	35.2	38.8	45.8	49.3	52.8	56.4	42.3	17.6	3.5	0.0	0.0
82.5°	38.8	42.3	52.8	49.3	49.3	49.3	38.8	17.6	3.5	0.0	0.0
85°	7.0	10.6	17.6	17.6	24.7	31.7	24.7	7.0	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)