

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: P530339

Luminaire Tested: **GALN-SA5C-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530339
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-SA5C-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 20590 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

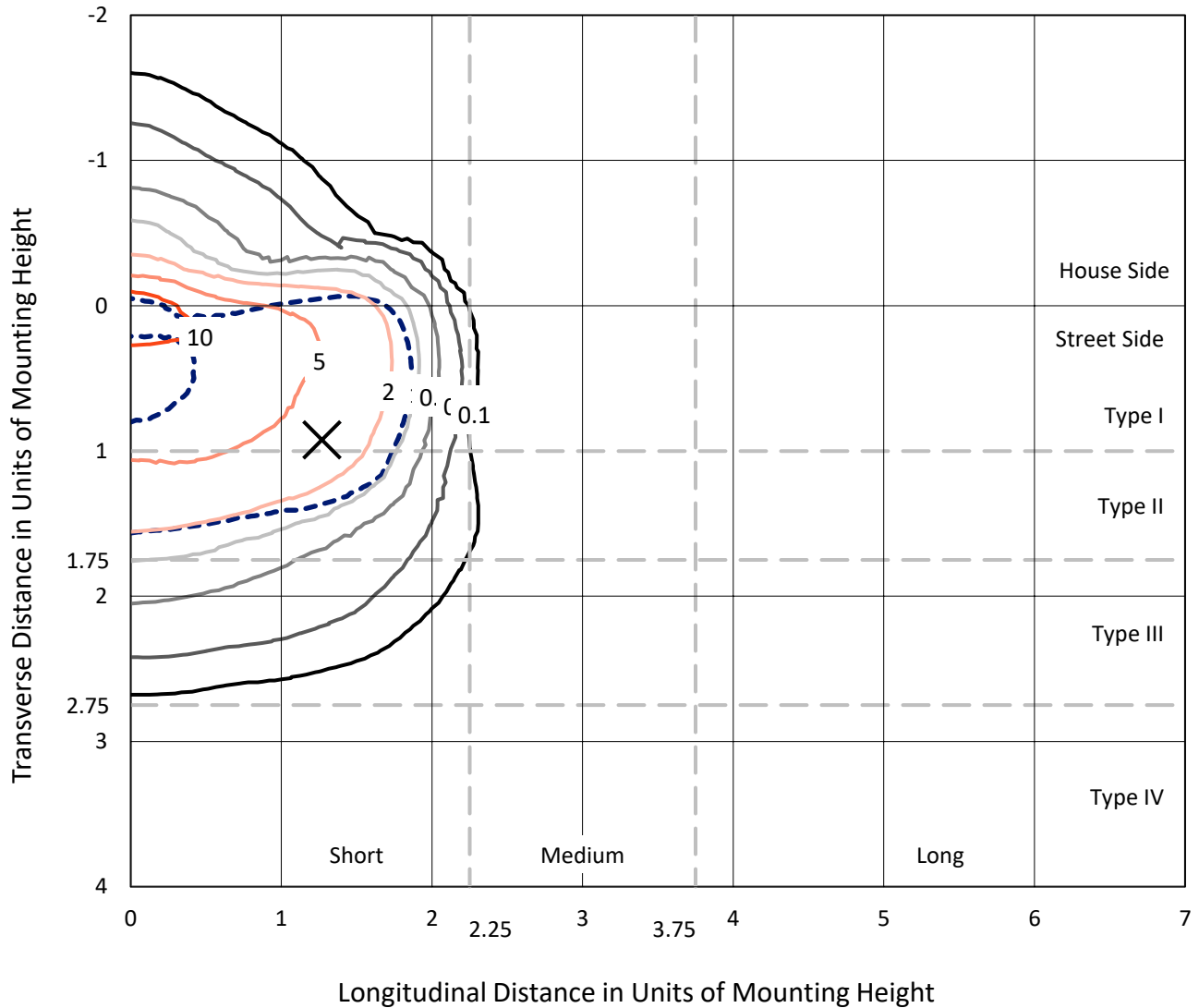
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530339
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Iso-Footcandle Lines of Horizontal Illumination

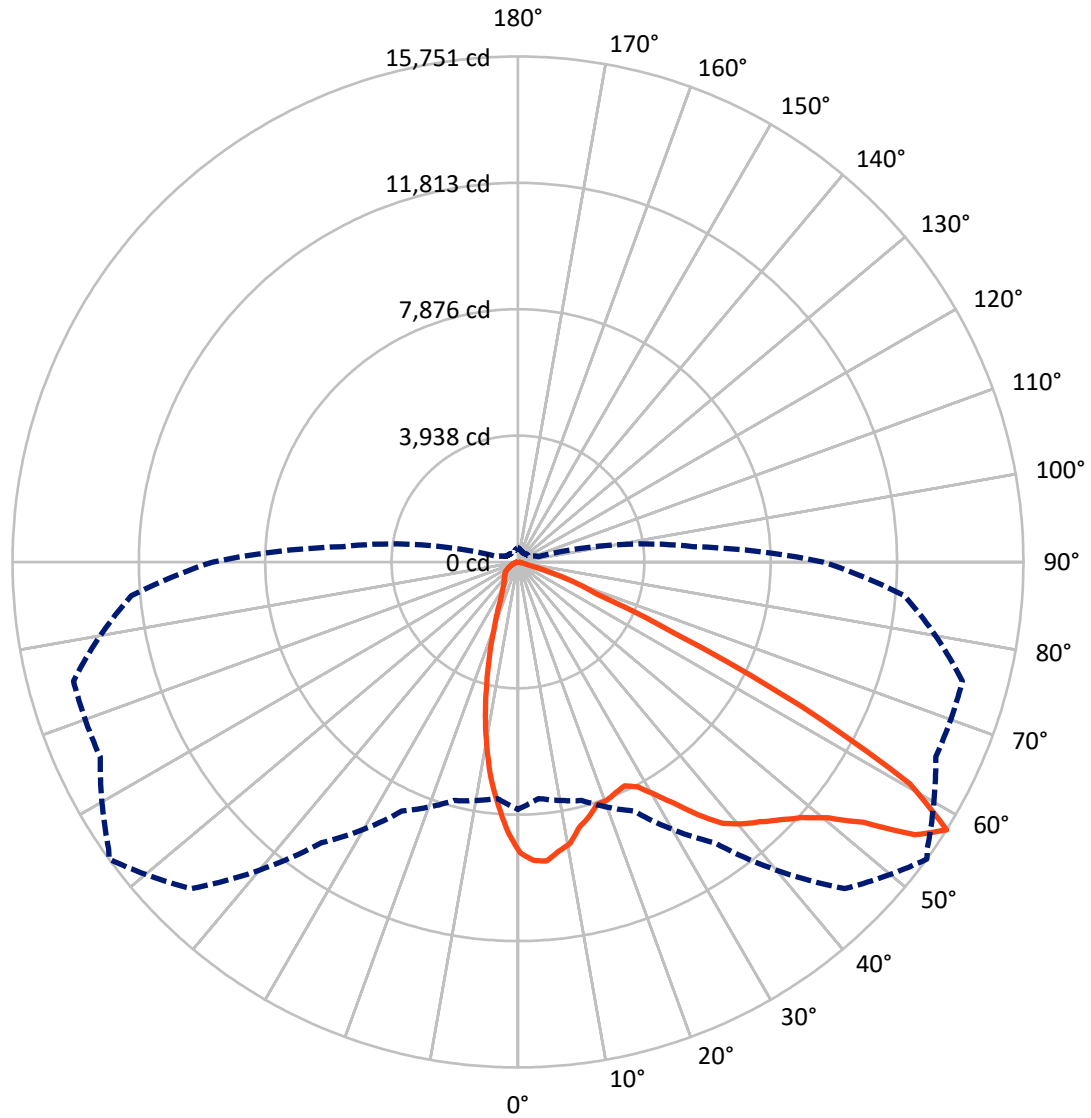
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

REPORT NUMBER: P530339
CATALOG NUMBER: GALN-SA5C-740-U-SL3-GRSBK

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	2909.7	0.0	2909.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	17680.3	0.0	17680.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	20590.0	0.0	20590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.0	3.7
10°-20°	1620.5	7.9
20°-30°	2147.4	10.4
30°-40°	3120.8	15.2
40°-50°	4627.8	22.5
50°-60°	5786.9	28.1
60°-70°	2282.6	11.1
70°-80°	227.3	1.1
80°-90°	17.7	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°	20590.0	100.0
0°-180°	20590.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530339

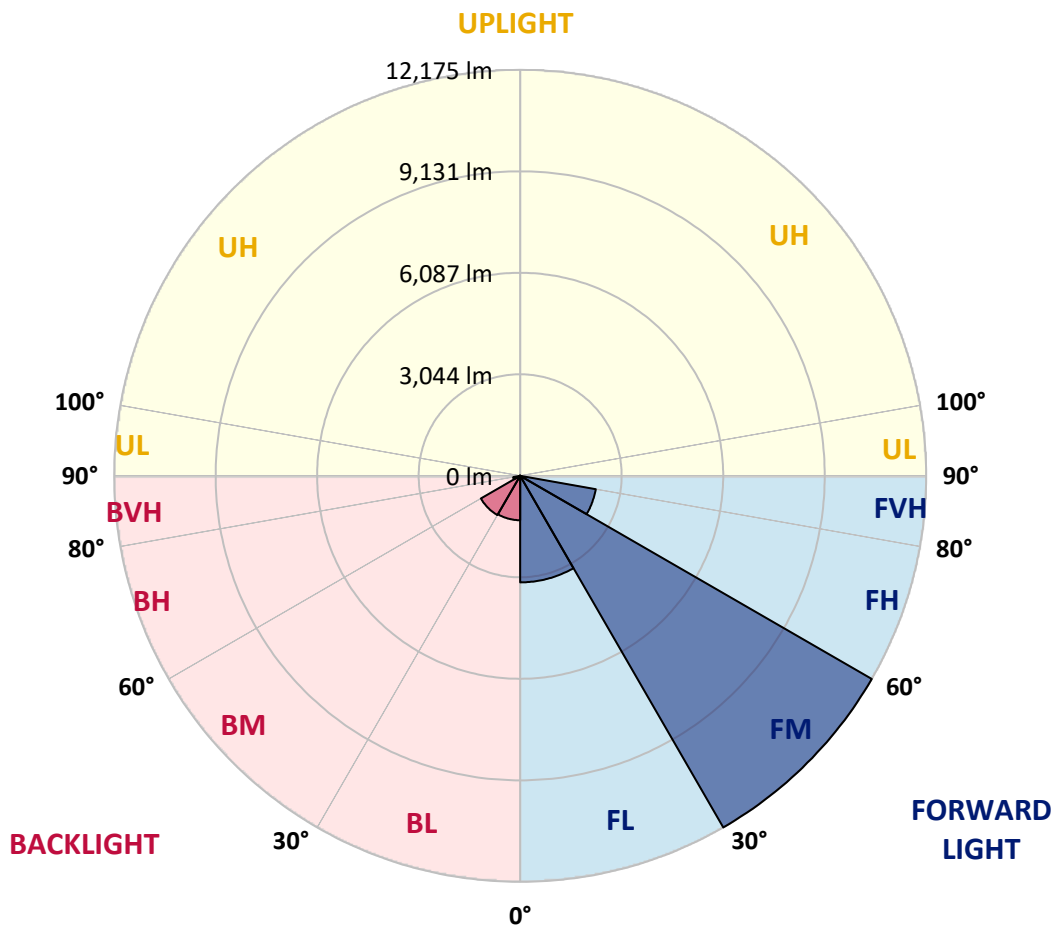
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3196.2	15.5			
FM (30°-60°)	12174.8	59.1			
FH (60°-80°)	2301.3	11.2			G2/5000
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	1330.8	6.5	B3/2500		
BM (30°-60°)	1360.7	6.6	B2/2500		
BH (60°-80°)	208.6	1.0	B1/500		G1/500
BVH (80°-90°)	9.6	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





REPORT NUMBER: P530339

CATALOG NUMBER: GALN-SA5C-740-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9070.2	9070.2	9070.2	9070.2	9070.2	9070.2	9070.2	9070.2	9070.2	9070.2	9070.2
2.5°	9598.5	9499.0	9506.6	9472.2	9426.2	9460.7	9311.4	9345.8	9342.0	9139.1	9005.1
5°	9357.3	9464.5	9353.5	9445.4	9357.3	9453.0	9361.2	9292.2	9181.2	9031.9	8783.0
7.5°	8947.7	8844.3	8874.9	8989.8	9008.9	9223.3	9108.5	9196.5	9150.6	8855.8	8515.0
10°	8124.5	8101.5	8254.7	8407.8	8595.4	8825.1	8913.2	8863.4	8829.0	8717.9	8262.3
12.5°	7492.8	7557.8	7554.0	7806.7	8124.5	8254.7	8484.4	8476.7	8668.2	8461.4	8024.9
15°	6891.6	6926.1	7086.9	7243.9	7596.1	7967.5	8250.8	8289.1	8518.8	8373.4	7841.2
17.5°	6524.1	6474.3	6600.7	6788.3	7148.2	7634.4	7948.4	8040.3	8354.2	8323.6	7630.6
20°	6160.4	6160.4	6263.7	6485.8	6815.1	7362.6	7921.6	7894.8	8354.2	8266.1	7404.7
22.5°	6037.8	6099.1	6125.9	6294.4	6684.9	7155.8	7806.7	7856.5	8419.3	8239.3	7305.1
25°	6206.3	6125.9	6133.6	6267.6	6635.1	7056.3	7722.5	7833.5	8538.0	8373.4	7224.7
27.5°	6233.1	6313.5	6336.5	6428.4	6673.4	7086.9	7933.1	8158.9	8832.8	8687.3	7247.7
30°	6466.7	6547.1	6543.2	6700.2	6868.7	7335.8	8404.0	8449.9	9441.6	9081.7	7389.4
32.5°	6750.0	6834.2	6861.0	7044.8	7178.8	7791.4	8978.3	9097.0	10027.3	9701.9	7760.8
35°	7102.2	7071.6	7194.1	7377.9	7665.0	8457.6	9678.9	9878.0	10659.1	10505.9	8143.6
37.5°	7542.5	7504.2	7622.9	7921.6	8312.1	9246.3	10326.0	10456.2	11118.5	11252.5	8851.9
40°	7852.6	7868.0	8227.9	8629.9	9043.4	9996.7	10735.7	10862.0	11440.1	11949.3	9388.0
42.5°	8369.5	8465.2	8897.9	9388.0	9820.6	10559.5	11068.7	11191.3	11589.5	12508.3	10111.6
45°	9119.9	9077.8	9556.4	10103.9	10582.5	11145.3	11463.1	11421.0	11677.5	13063.5	10567.2
47.5°	10084.8	10092.4	10410.2	10877.3	11375.0	11654.5	11903.4	11754.1	11861.3	13649.3	11176.0
50°	10743.3	10800.7	11057.3	11535.9	11784.7	12213.5	12531.3	12439.4	12405.0	14001.5	11558.8
52.5°	10911.8	11084.1	11221.9	11819.2	12401.1	13078.8	13484.7	13679.9	13067.3	14120.2	12045.1
55°	9640.6	9793.8	10280.0	11099.4	12634.7	14449.5	15008.5	15012.3	13932.6	14648.6	12385.8
57.5°	7707.2	7397.0	7695.7	8564.8	10682.1	14392.1	15751.2	15571.3	14365.3	14338.5	12091.0
60°	5329.5	5253.0	5272.1	5616.7	7393.2	11447.8	14036.0	14269.5	13228.1	12427.9	9571.7
62.5°	4223.0	4158.0	4073.7	4035.4	4590.6	7132.9	9901.0	10230.3	9250.1	8059.4	5674.1
65°	3308.0	3269.7	3281.2	3434.3	3430.5	4046.9	5413.8	5279.8	4226.9	3124.2	1784.2
67.5°	2232.1	2289.6	2335.5	2798.8	3036.2	2817.9	2615.0	2538.4	1374.5	578.1	394.4
70°	1255.8	1263.5	1313.2	1749.7	2304.9	2186.2	1803.3	1803.3	685.3	210.6	225.9
72.5°	685.3	662.4	616.4	754.3	1026.1	1041.4	804.0	700.7	202.9	137.8	126.3
75°	333.1	329.3	283.3	233.6	222.1	183.8	141.7	130.2	91.9	88.1	76.6
77.5°	68.9	65.1	34.5	34.5	38.3	42.1	53.6	53.6	65.1	65.1	53.6
80°	0.0	0.0	3.8	15.3	26.8	38.3	45.9	45.9	53.6	53.6	42.1
82.5°	0.0	0.0	3.8	11.5	23.0	34.5	42.1	45.9	53.6	57.4	45.9
85°	0.0	0.0	0.0	7.7	19.1	26.8	23.0	23.0	19.1	15.3	7.7
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: P530339

CATALOG NUMBER: GALN-SA5C-740-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9070.2	9070.2	9070.2	9070.2	9070.2	9070.2	9070.2	9070.2	9070.2	9070.2	9070.2
2.5°	8936.2	8928.5	8752.4	8652.8	8472.9	8315.9	8189.6	8097.7	8097.7	8040.3	7986.7
5°	8683.5	8618.4	8243.2	8002.0	7661.2	7408.5	7236.2	7102.2	6891.6	6949.1	6723.2
7.5°	8369.5	8204.9	7707.2	7339.6	6868.7	6508.8	6141.2	5815.8	5501.8	5360.2	5436.7
10°	8032.6	7745.4	7075.4	6493.5	5907.7	5249.1	4820.3	4299.6	3978.0	3958.9	3874.6
12.5°	7676.5	7351.1	6535.6	5731.6	4962.0	4169.4	3514.7	3028.5	2810.3	2569.1	2615.0
15°	7408.5	6926.1	5934.5	4965.8	3943.6	3143.4	2484.8	2109.6	1902.9	1845.4	1826.3
17.5°	7117.5	6600.7	5321.9	4150.3	3093.6	2262.8	1788.0	1608.1	1527.6	1527.6	1516.2
20°	6815.1	6233.1	4713.1	3392.2	2320.2	1688.5	1431.9	1374.5	1370.7	1366.8	1366.8
22.5°	6616.0	5812.0	4161.8	2695.4	1749.7	1351.5	1244.3	1221.4	1236.7	1282.6	1282.6
25°	6405.4	5406.1	3553.0	2079.0	1355.4	1160.1	1098.8	1114.1	1152.4	1194.6	1179.2
27.5°	6191.0	5141.9	2978.7	1631.0	1110.3	1014.6	991.6	1026.1	1068.2	1106.5	1095.0
30°	6141.2	4858.6	2435.0	1236.7	953.3	884.4	899.7	930.4	972.5	987.8	1003.1
32.5°	6217.8	4636.5	1994.7	1014.6	830.8	811.7	811.7	827.0	853.8	888.3	876.8
35°	6436.0	4510.2	1577.4	880.6	761.9	742.8	738.9	754.3	769.6	781.1	769.6
37.5°	6769.1	4410.7	1290.3	781.1	716.0	685.3	677.7	673.8	689.2	693.0	700.7
40°	7194.1	4464.3	1095.0	719.8	670.0	635.6	612.6	612.6	612.6	624.1	627.9
42.5°	7653.6	4537.0	945.7	685.3	627.9	585.8	562.8	555.2	562.8	578.1	574.3
45°	8136.0	4678.7	850.0	631.7	589.6	536.0	505.4	497.7	516.9	547.5	543.7
47.5°	8587.8	4881.6	777.2	597.3	551.3	501.6	463.3	455.6	490.1	532.2	536.0
50°	9039.5	5233.8	750.4	570.5	524.5	467.1	432.6	425.0	463.3	516.9	528.4
52.5°	9560.2	5612.9	731.3	536.0	493.9	440.3	402.0	394.4	436.5	505.4	509.2
55°	9901.0	5934.5	716.0	474.8	436.5	398.2	367.6	363.7	409.7	470.9	486.2
57.5°	9502.8	5486.5	662.4	413.5	371.4	352.2	325.4	325.4	363.7	421.2	432.6
60°	7205.6	3610.5	470.9	333.1	314.0	302.5	291.0	291.0	321.6	363.7	367.6
62.5°	4219.2	1945.0	302.5	268.0	268.0	256.5	237.4	237.4	268.0	291.0	294.8
65°	1252.0	624.1	245.0	229.7	225.9	206.7	187.6	183.8	206.7	218.2	214.4
67.5°	359.9	287.2	202.9	191.4	187.6	157.0	145.5	141.7	145.5	137.8	134.0
70°	214.4	195.3	157.0	160.8	141.7	114.9	103.4	99.5	91.9	80.4	72.7
72.5°	118.7	118.7	114.9	122.5	99.5	76.6	65.1	53.6	42.1	34.5	30.6
75°	72.7	76.6	80.4	84.2	65.1	49.8	42.1	26.8	15.3	7.7	7.7
77.5°	49.8	53.6	57.4	61.3	53.6	45.9	34.5	19.1	3.8	0.0	0.0
80°	38.3	42.1	49.8	53.6	57.4	61.3	45.9	19.1	3.8	0.0	0.0
82.5°	42.1	45.9	57.4	53.6	53.6	53.6	42.1	19.1	3.8	0.0	0.0
85°	7.7	11.5	19.1	19.1	26.8	34.5	26.8	7.7	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)