

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: P530099

Luminaire Tested: **GALN-SA5B-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21257 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

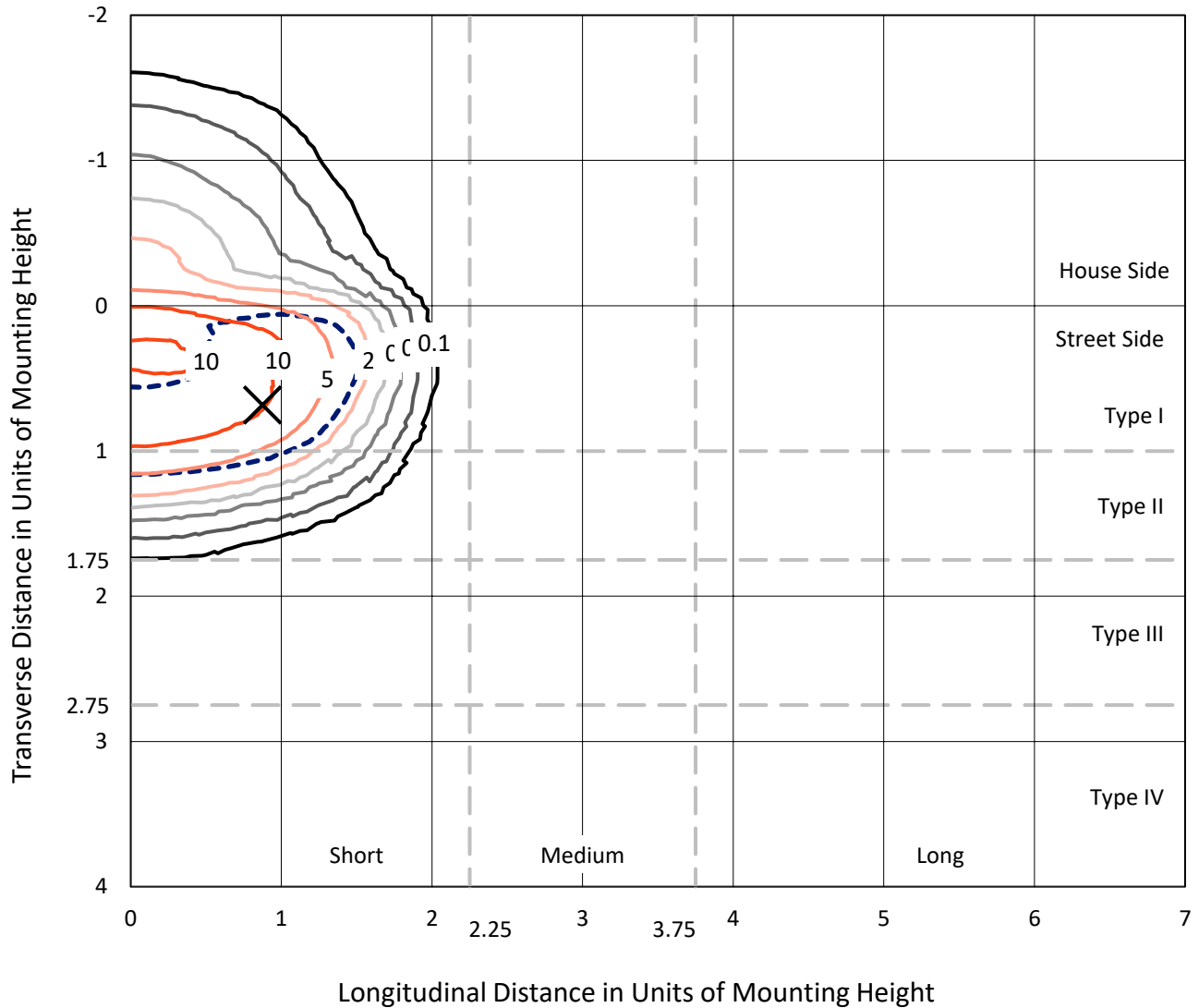
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

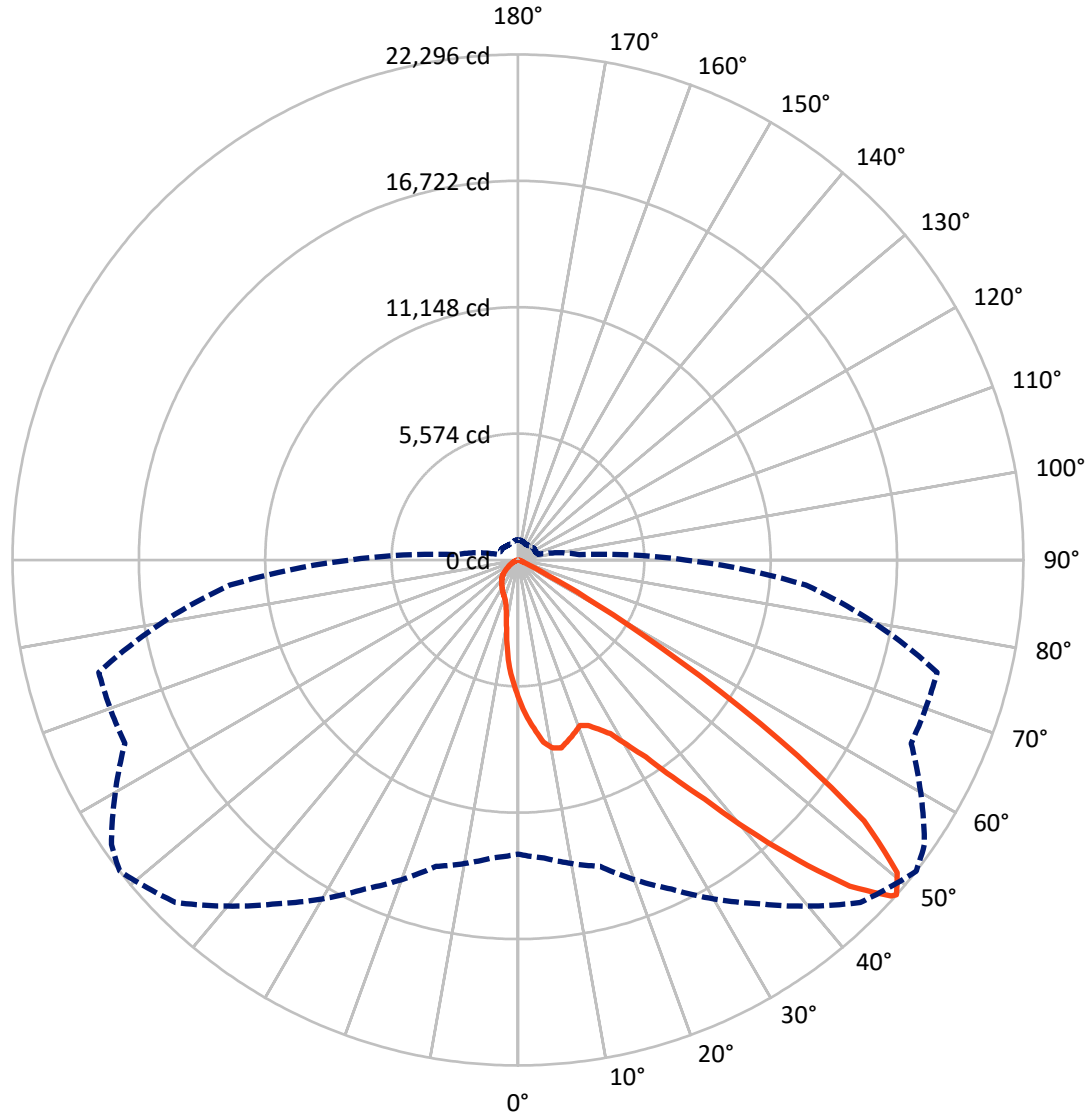
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2588.2	0.0	2588.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	18668.8	0.0	18668.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	21257.0	0.0	21257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.9	2.6
10°-20°	1468.4	6.9
20°-30°	2507.1	11.8
30°-40°	4616.8	21.7
40°-50°	7169.9	33.7
50°-60°	4315.0	20.3
60°-70°	499.1	2.3
70°-80°	96.6	0.5
80°-90°	22.4	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°	21257.0	100.0
0°-180°	21257.0	100.0

Coefficient of Utilization

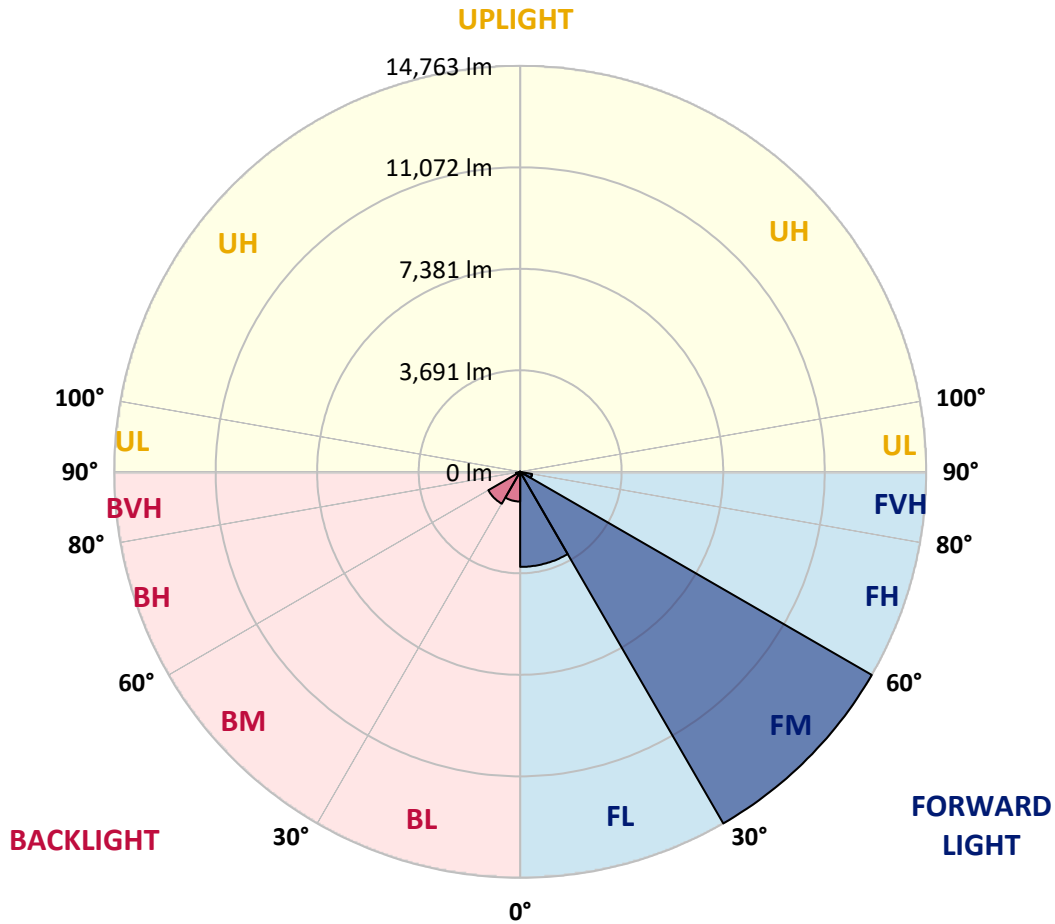


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3456.1	16.3			
FM (30°-60°)	14762.6	69.4			
FH (60°-80°)	439.5	2.1			G0/660
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	1081.2	5.1	B3/2500		
BM (30°-60°)	1339.1	6.3	B2/2500		
BH (60°-80°)	156.2	0.7	B1/500		G1/500
BVH (80°-90°)	11.7	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6138.7	6138.7	6138.7	6138.7	6138.7	6138.7	6138.7	6138.7	6138.7	6138.7	6138.7
2.5°	7440.2	7269.7	7285.2	7173.7	7108.6	7003.2	6860.7	6832.8	6677.9	6467.1	6253.3
5°	8109.5	8069.2	8121.9	7960.7	7966.9	7793.4	7458.7	7464.9	7108.6	6764.6	6433.1
7.5°	8152.9	8059.9	8112.6	8255.1	8338.8	8307.8	8118.8	7954.5	7616.8	7111.7	6628.3
10°	7300.7	7477.3	7533.1	7768.6	8103.3	8456.6	8434.9	8444.2	8162.2	7502.1	6795.6
12.5°	6789.4	6671.7	6860.7	7003.2	7508.3	8193.2	8506.1	8574.3	8596.0	7880.2	6962.9
15°	6557.0	6557.0	6588.0	6628.3	6993.9	7626.1	8264.4	8462.7	8930.7	8376.0	7226.3
17.5°	6702.6	6696.4	6739.8	6656.2	6792.5	7279.0	8041.3	8267.5	9305.6	8862.5	7434.0
20°	7145.8	7167.5	7139.6	6897.9	6907.2	7272.8	7793.4	8149.8	9559.7	9283.9	7709.7
22.5°	7762.4	7774.8	7616.8	7353.4	7275.9	7455.6	7936.0	8208.6	9764.2	9789.0	7793.4
25°	8475.1	8425.6	8394.6	8022.7	7787.2	7942.2	8258.2	8416.3	9891.3	10222.9	8032.0
27.5°	9463.7	9364.5	9175.5	8843.9	8670.4	8450.4	8676.6	8936.9	10253.8	10830.2	8292.3
30°	10923.2	10836.4	10467.7	10040.0	9584.5	9367.6	9438.9	9581.4	10907.7	11533.6	8636.3
32.5°	13120.2	12937.4	12404.4	11589.4	10969.7	10371.6	10353.0	10504.8	11493.3	12506.6	9045.3
35°	15540.3	15484.6	14700.6	13860.8	12661.6	11738.2	11753.6	11834.2	12615.1	13783.3	9581.4
37.5°	17148.6	17455.4	16956.5	16054.7	15047.6	13727.6	13392.9	13420.8	14155.2	15295.5	10548.2
40°	18391.2	18130.9	18189.8	17979.1	17291.2	16392.5	15651.9	15506.3	15937.0	16968.9	11508.8
42.5°	17848.9	17861.3	18223.9	18722.8	18893.2	18828.1	18072.0	17796.3	17461.6	18338.5	12423.0
45°	16318.1	16637.3	17108.3	18428.4	19587.3	20675.0	20526.3	20067.7	18515.2	19423.1	12949.8
47.5°	13876.3	13863.9	14635.5	16352.2	18927.3	21474.5	22150.0	21827.8	19262.0	19302.3	12841.3
48°	12974.6	13197.7	13994.1	16014.5	18509.0	21356.7	22295.7	21889.7	19134.9	19141.1	12748.4
50°	9590.7	9550.4	10542.0	13021.0	16532.0	20067.7	21682.1	21998.2	19131.8	18326.1	12097.6
52.5°	5066.5	5240.0	5962.0	8187.0	11688.6	16423.5	19125.6	19618.3	18456.3	16993.7	11161.8
55°	2153.6	1946.0	2500.7	3696.8	6575.6	10972.8	14031.2	15128.2	15605.4	15038.3	9764.2
57.5°	768.5	839.8	966.8	1391.3	2764.1	6005.4	8366.7	9218.8	10811.6	11034.7	6653.1
60°	492.7	502.0	542.3	638.3	1038.1	2314.8	3969.5	4648.2	5370.2	5543.7	3105.0
62.5°	381.1	384.2	402.8	418.3	492.7	898.6	1490.5	1766.3	1834.5	1577.3	815.0
65°	319.2	322.3	328.5	328.5	350.2	421.4	520.6	573.3	557.8	551.6	461.7
67.5°	244.8	251.0	263.4	263.4	275.8	257.2	288.2	306.8	347.1	421.4	393.5
70°	192.1	195.2	204.5	210.7	210.7	185.9	207.6	226.2	254.1	313.0	309.9
72.5°	148.7	154.9	161.1	161.1	151.8	127.0	148.7	164.2	182.8	216.9	210.7
75°	114.7	114.7	117.8	96.1	74.4	65.1	89.9	108.5	136.3	142.5	117.8
77.5°	31.0	34.1	31.0	27.9	31.0	46.5	58.9	68.2	86.8	86.8	77.5
80°	0.0	3.1	9.3	18.6	31.0	43.4	52.7	58.9	68.2	74.4	71.3
82.5°	0.0	3.1	9.3	18.6	27.9	34.1	46.5	49.6	55.8	65.1	65.1
85°	0.0	3.1	6.2	12.4	18.6	21.7	21.7	18.6	18.6	15.5	12.4
87.5°	0.0	0.0	3.1	6.2	6.2	9.3	9.3	9.3	9.3	9.3	9.3
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°	6138.7	6138.7	6138.7	6138.7	6138.7	6138.7	6138.7	6138.7	6138.7	6138.7	6138.7
2.5°	6169.7	6073.6	5928.0	5698.6	5478.6	5336.1	5199.7	5047.9	4964.2	4958.0	4911.6
5°	6244.0	6027.1	5680.1	5286.5	4865.1	4502.5	4136.9	3898.3	3684.4	3566.7	3545.0
7.5°	6284.3	6002.3	5441.4	4781.4	4062.5	3470.6	3061.6	2761.0	2643.3	2556.5	2553.4
10°	6368.0	5958.9	5085.1	4112.1	3222.7	2624.7	2342.7	2206.3	2141.3	2116.5	2079.3
12.5°	6430.0	5878.4	4719.4	3424.1	2547.2	2175.3	2051.4	2020.4	2023.5	2035.9	2020.4
15°	6516.7	5807.1	4226.7	2810.6	2138.2	1958.4	1958.4	1964.6	2008.0	2014.2	2011.1
17.5°	6510.5	5667.7	3718.5	2314.8	1890.3	1865.5	1874.8	1933.6	1961.5	1970.8	1949.1
20°	6584.9	5537.5	3194.8	1977.0	1750.8	1788.0	1850.0	1865.5	1899.5	1905.7	1881.0
22.5°	6563.2	5212.1	2708.3	1710.5	1645.4	1716.7	1778.7	1797.3	1788.0	1769.4	1766.3
25°	6522.9	4933.2	2262.1	1533.9	1568.0	1645.4	1704.3	1670.2	1651.6	1654.7	1657.8
27.5°	6451.6	4580.0	1893.4	1409.9	1462.6	1577.3	1574.2	1561.8	1580.4	1564.9	1580.4
30°	6439.2	4226.7	1589.7	1298.4	1385.2	1468.8	1475.0	1496.7	1518.4	1490.5	1518.4
32.5°	6457.8	3839.4	1372.8	1230.2	1338.7	1341.8	1409.9	1431.6	1416.1	1354.2	1360.4
35°	6600.4	3541.9	1214.7	1193.0	1264.3	1267.4	1332.5	1304.6	1236.4	1199.2	1220.9
37.5°	6901.0	3294.0	1140.3	1158.9	1165.1	1205.4	1208.5	1152.7	1158.9	1155.8	1168.2
40°	7285.2	3105.0	1087.7	1128.0	1121.8	1149.6	1038.1	1069.1	1097.0	1106.3	1112.5
42.5°	7548.6	2968.6	1053.6	1078.4	1066.0	1016.4	954.4	985.4	1007.1	1041.2	1047.4
45°	7666.4	2860.2	1013.3	991.6	991.6	901.7	877.0	883.2	932.7	969.9	963.7
47.5°	7474.2	2754.8	942.0	877.0	898.6	824.3	796.4	796.4	849.1	895.5	886.2
48°	7399.9	2711.4	945.1	852.2	867.7	811.9	784.0	777.8	836.7	880.1	880.1
50°	7031.1	2550.3	864.6	784.0	753.0	746.8	728.2	734.4	771.6	811.9	811.9
52.5°	6312.2	2203.2	731.3	672.4	616.7	653.8	663.1	650.7	669.3	706.5	703.4
55°	5267.9	1691.9	585.7	557.8	514.4	554.7	573.3	557.8	539.2	567.1	567.1
57.5°	3374.6	911.0	467.9	474.1	430.7	471.0	486.5	449.3	415.2	436.9	433.8
60°	1521.5	545.4	384.2	375.0	347.1	393.5	418.3	375.0	328.5	344.0	359.5
62.5°	570.2	387.3	291.3	285.1	278.9	322.3	334.7	300.6	254.1	263.4	266.5
65°	418.3	340.9	232.4	210.7	223.1	254.1	247.9	213.8	182.8	182.8	189.0
67.5°	356.4	297.5	189.0	164.2	164.2	167.3	154.9	136.3	127.0	133.2	139.4
70°	278.9	235.5	148.7	127.0	114.7	102.3	89.9	86.8	77.5	86.8	83.7
72.5°	179.7	158.0	114.7	96.1	86.8	71.3	58.9	55.8	46.5	43.4	43.4
75°	96.1	96.1	89.9	77.5	68.2	55.8	46.5	37.2	24.8	18.6	18.6
77.5°	68.2	74.4	80.6	74.4	62.0	46.5	37.2	24.8	12.4	6.2	6.2
80°	65.1	74.4	80.6	71.3	62.0	46.5	34.1	18.6	9.3	3.1	3.1
82.5°	58.9	68.2	74.4	65.1	55.8	40.3	31.0	18.6	9.3	3.1	3.1
85°	12.4	15.5	18.6	18.6	21.7	27.9	21.7	15.5	6.2	3.1	3.1
87.5°	9.3	9.3	9.3	9.3	9.3	9.3	6.2	6.2	3.1	3.1	3.1
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)