

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: P450512

Luminaire Tested: **GALN-SA1B-750-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4717 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

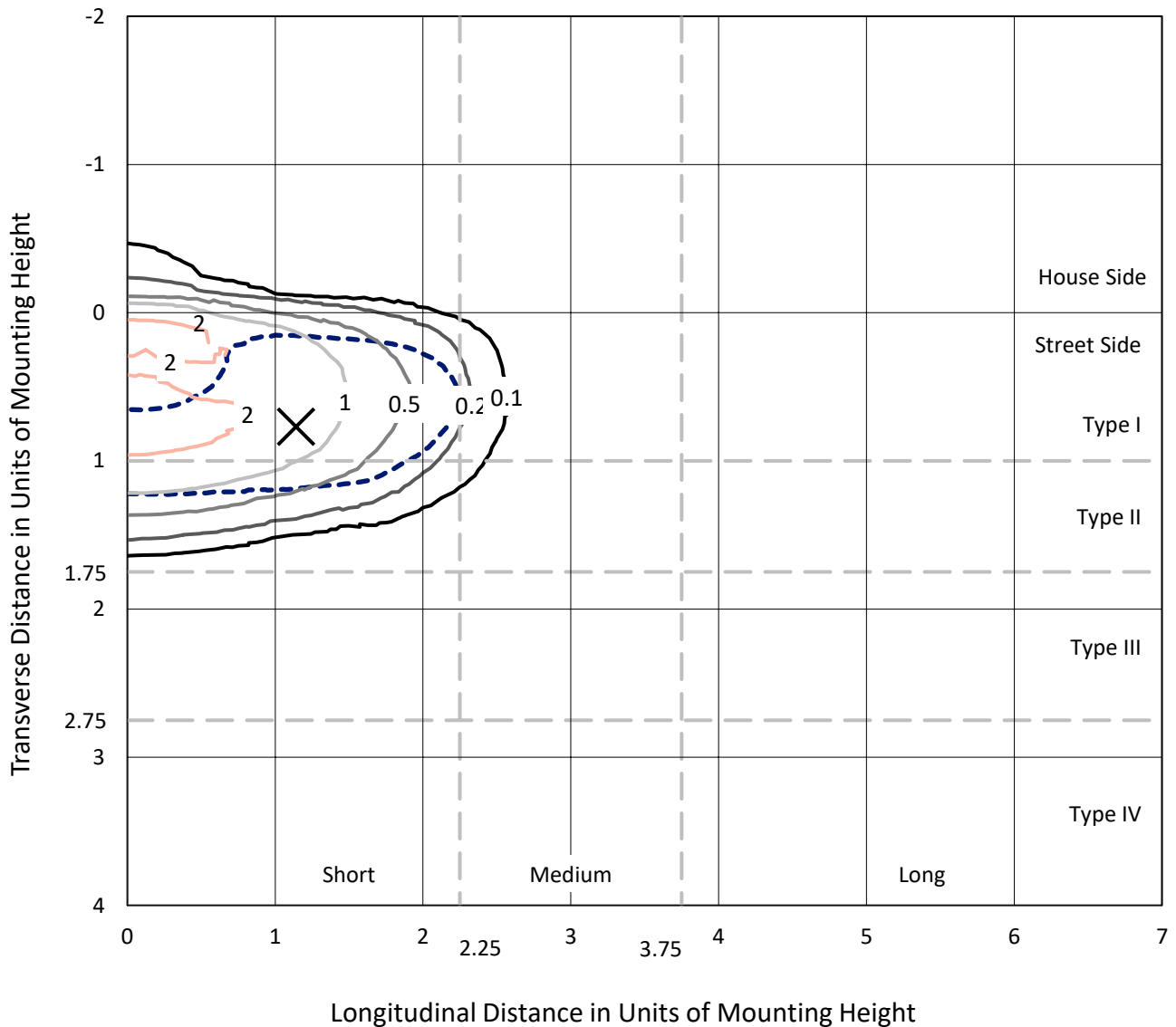
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

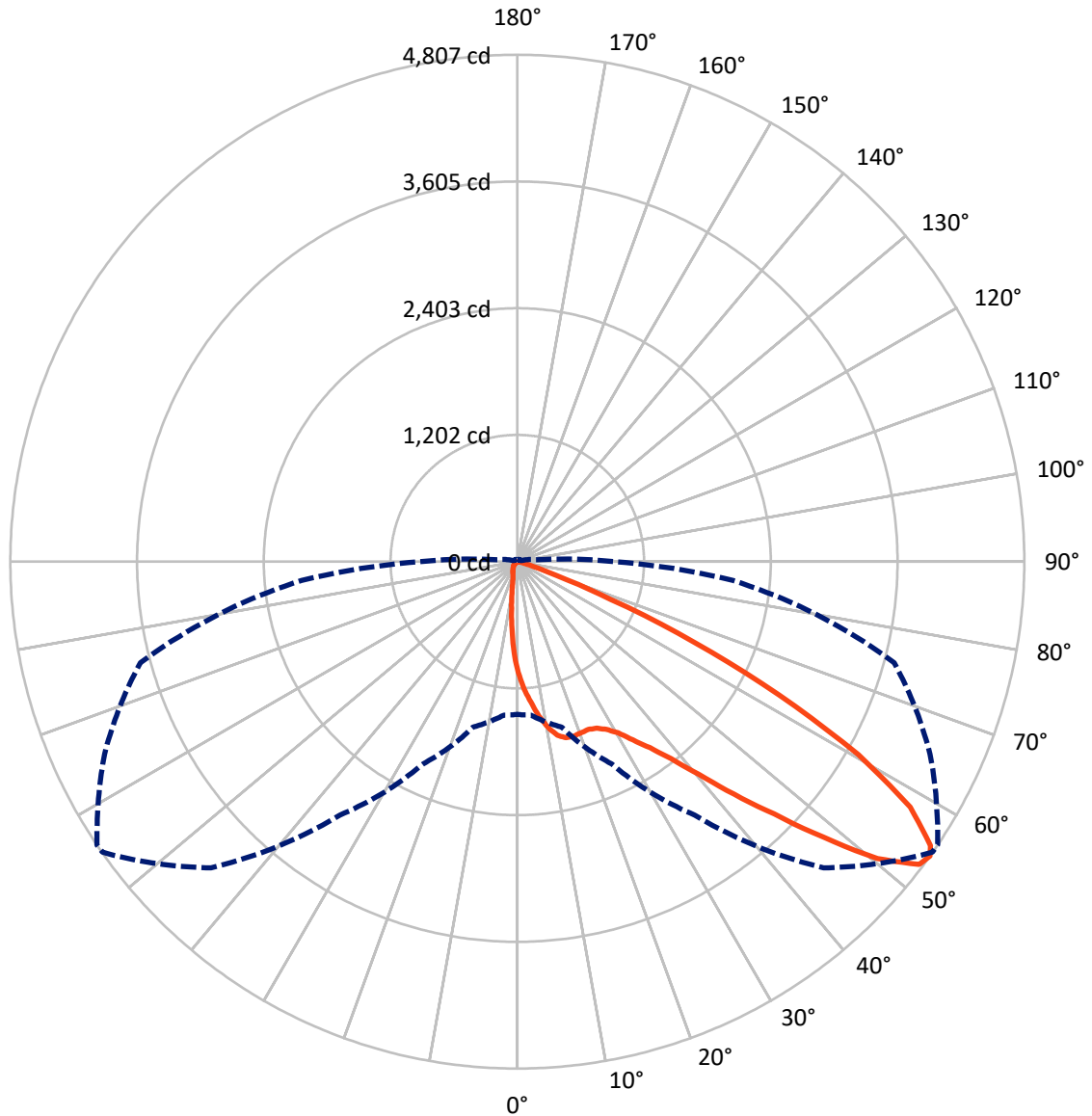
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	223.1	0.0	223.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	4493.9	0.0	4493.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	4717.0	0.0	4717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	2.0
10°-20°	250.3	5.3
20°-30°	433.6	9.2
30°-40°	748.4	15.9
40°-50°	1273.8	27.0
50°-60°	1260.6	26.7
60°-70°	575.4	12.2
70°-80°	73.9	1.6
80°-90°	8.3	0.2
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°	4717.0	100.0
0°-180°	4717.0	100.0

Coefficient of Utilization



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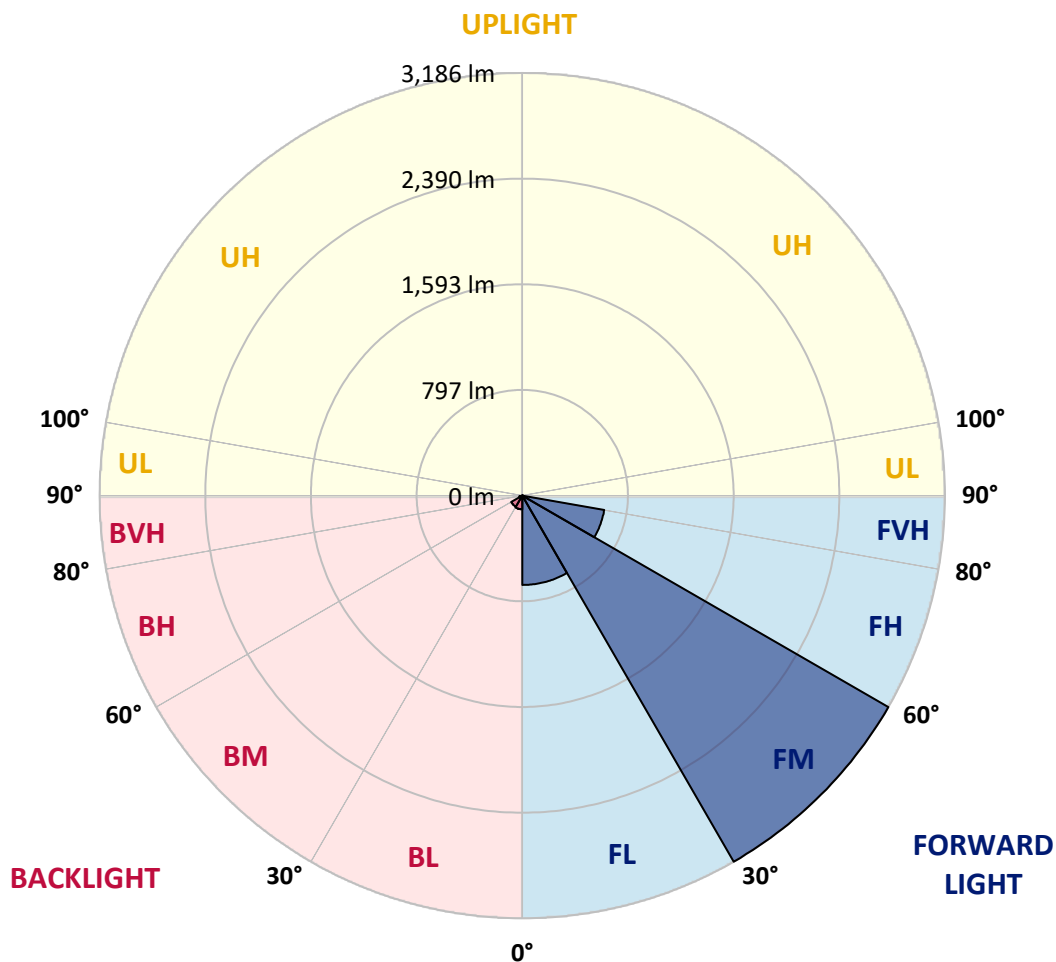
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.4	14.3			
FM (30°-60°)	3186.2	67.5			
FH (60°-80°)	626.9	13.3			G0/660
FVH (80°-90°)	7.4	0.2			G0/10
BL (0°-30°)	103.2	2.2	B0/110		
BM (30°-60°)	96.7	2.0	B0/220		
BH (60°-80°)	22.3	0.5	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0
2.5°	1331.9	1322.6	1309.9	1300.0	1276.8	1243.4	1208.1	1208.1	1174.0	1126.6	1078.2
5°	1536.2	1530.1	1517.7	1492.3	1466.2	1419.4	1348.4	1336.0	1275.2	1189.3	1098.9
7.5°	1619.2	1622.1	1622.7	1616.0	1603.6	1557.5	1487.2	1478.6	1381.5	1266.3	1126.0
10°	1539.7	1553.7	1567.4	1595.0	1634.2	1645.3	1605.5	1596.6	1501.2	1344.3	1155.2
12.5°	1421.3	1428.9	1436.6	1480.2	1558.8	1648.8	1690.5	1690.2	1609.4	1421.9	1192.5
15°	1366.2	1372.9	1373.5	1393.0	1461.1	1592.2	1726.8	1731.6	1715.0	1517.7	1232.6
17.5°	1377.7	1383.1	1378.6	1383.4	1419.1	1529.8	1722.7	1738.6	1800.6	1609.7	1268.8
20°	1452.5	1463.0	1445.8	1432.4	1443.2	1513.3	1708.7	1730.9	1861.1	1699.4	1301.9
22.5°	1586.8	1592.5	1570.9	1534.3	1515.2	1547.9	1704.8	1726.8	1912.7	1772.9	1321.0
25°	1736.0	1734.1	1710.3	1669.2	1629.1	1618.0	1730.0	1749.7	1955.3	1839.1	1326.8
27.5°	1885.3	1891.0	1850.9	1800.0	1751.9	1723.0	1786.3	1801.0	2003.4	1914.6	1333.8
30°	2058.7	2049.5	2010.0	1951.8	1896.7	1856.3	1877.0	1881.1	2069.5	2014.5	1352.2
32.5°	2284.4	2258.9	2214.7	2112.8	2073.4	2004.9	2010.0	2015.1	2150.1	2113.5	1374.5
35°	2590.5	2589.2	2502.7	2365.5	2269.4	2184.4	2162.2	2166.3	2272.0	2260.5	1423.8
37.5°	2959.0	2964.1	2865.5	2727.4	2550.4	2415.5	2369.7	2370.3	2457.2	2463.5	1498.9
40°	3259.2	3272.5	3213.6	3120.4	2945.7	2734.7	2657.7	2650.7	2717.5	2709.5	1606.2
42.5°	3388.4	3400.8	3422.7	3455.2	3359.1	3185.0	3003.3	3012.8	3033.2	2977.5	1726.5
45°	3325.0	3344.8	3431.0	3631.5	3721.9	3663.3	3446.6	3413.2	3326.9	3268.7	1847.4
47.5°	3061.2	3109.3	3253.4	3587.3	3903.6	4101.5	3946.9	3902.6	3621.0	3481.3	1924.4
50°	2627.4	2630.3	2831.1	3257.9	3809.4	4378.1	4457.7	4424.6	3895.0	3600.6	1963.3
52.5°	1904.7	1967.4	2151.3	2645.6	3401.4	4336.1	4783.2	4769.5	4177.6	3661.7	2019.3
54°	1448.0	1460.1	1623.7	2114.1	2932.6	4105.4	4803.3	4806.5	4318.0	3698.6	2052.4
55°	1187.1	1158.1	1329.9	1801.0	2612.8	3901.4	4737.7	4753.0	4381.0	3717.7	2076.9
57.5°	562.7	563.0	694.4	950.0	1636.4	3029.4	4337.0	4391.1	4388.0	3750.5	2152.3
60°	284.8	286.7	315.7	438.5	808.3	2013.9	3586.0	3714.9	4050.3	3755.3	2177.1
62.5°	199.2	197.0	192.2	211.0	340.2	1023.5	2669.8	2781.8	3441.2	3573.6	2098.2
65°	170.6	165.8	152.4	149.6	171.9	407.7	1662.8	1845.5	2627.4	3094.3	1873.5
67.5°	145.8	143.8	131.8	124.4	121.6	177.6	858.0	954.1	1795.9	2224.2	1419.1
70°	123.8	122.8	115.5	106.3	98.3	106.3	318.2	394.3	1000.9	1197.6	669.6
72.5°	100.6	101.5	102.8	91.0	82.7	75.4	135.9	158.2	418.8	428.0	234.2
75°	88.2	87.2	87.2	79.2	69.1	56.0	74.8	80.5	128.3	119.0	54.4
77.5°	62.1	59.8	70.0	65.2	57.6	39.8	42.6	45.2	53.1	45.5	25.5
80°	43.0	43.0	44.9	58.6	51.9	29.0	26.1	28.0	31.5	27.1	14.6
82.5°	24.2	24.8	29.3	31.2	30.2	19.4	17.2	17.5	21.0	18.5	9.2
85°	2.9	4.8	16.9	16.5	12.4	8.6	9.5	9.9	13.0	11.5	5.4
87.5°	0.3	0.6	3.5	4.5	3.2	3.5	3.5	3.5	4.5	5.1	3.8
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°	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0
2.5°	1052.1	1027.9	970.3	903.5	860.9	791.5	732.9	690.6	680.1	659.7	665.8
5°	1050.8	1000.6	883.1	759.0	626.6	528.0	454.5	396.5	371.1	354.2	342.4
7.5°	1051.5	972.9	784.5	586.8	428.7	331.9	263.8	228.5	204.9	195.1	196.4
10°	1053.4	941.7	669.9	434.7	289.3	214.5	172.8	155.9	148.0	146.7	146.4
12.5°	1057.8	907.6	560.4	322.7	202.4	155.9	140.0	134.3	131.8	131.8	130.8
15°	1062.6	870.1	469.4	240.0	155.9	134.0	126.7	123.8	122.2	122.2	121.9
17.5°	1062.6	826.8	384.4	186.2	134.3	123.2	117.4	113.6	112.3	112.3	112.0
20°	1055.9	776.5	309.0	149.9	121.9	113.0	107.2	103.1	101.5	100.9	100.6
22.5°	1032.7	709.4	246.0	128.9	111.7	104.1	96.7	92.0	90.7	90.1	90.4
25°	991.3	633.6	194.8	113.3	102.5	93.2	86.9	83.4	82.1	82.1	82.4
27.5°	948.7	554.4	154.3	101.5	91.3	83.1	78.0	75.7	75.4	76.4	76.7
30°	909.2	474.8	125.1	92.0	81.5	74.5	71.0	70.3	70.3	70.7	71.0
32.5°	865.3	405.1	104.7	83.7	73.5	67.5	65.6	65.6	66.2	66.2	66.8
35°	837.6	345.3	92.0	75.7	67.5	62.4	61.1	61.4	62.4	63.6	64.3
37.5°	822.7	297.6	83.7	69.4	61.7	58.2	57.0	57.6	59.8	62.1	62.4
40°	823.9	261.6	77.0	64.0	57.3	53.5	52.5	54.4	56.6	58.9	59.2
42.5°	837.9	234.9	70.7	57.6	53.5	48.1	47.7	49.6	50.6	52.8	53.1
45°	854.5	215.5	64.0	50.9	46.5	41.7	42.0	43.6	44.9	48.4	49.0
47.5°	859.6	202.1	56.3	43.3	38.2	36.6	36.9	37.9	40.4	43.6	43.9
50°	865.3	193.8	49.0	36.6	32.5	32.1	32.5	33.1	34.7	36.0	35.6
52.5°	889.8	193.5	43.0	31.8	27.7	28.3	28.6	28.3	27.1	25.1	24.5
54°	912.7	194.4	40.1	29.6	25.5	26.4	26.1	24.5	21.3	19.4	18.5
55°	931.2	195.4	38.5	28.0	24.2	24.5	24.8	21.6	17.5	15.6	15.0
57.5°	967.5	193.2	34.7	24.5	21.3	20.0	19.7	14.3	9.5	8.3	7.6
60°	949.3	174.4	31.5	21.0	18.1	16.2	13.4	8.0	4.8	3.5	3.5
62.5°	878.0	148.0	28.0	17.2	15.0	12.4	7.0	4.5	2.2	1.3	1.0
65°	785.4	124.4	25.1	13.7	11.8	8.0	3.8	2.9	1.0	0.0	0.0
67.5°	584.0	92.3	21.3	10.8	8.9	5.1	2.5	1.6	0.3	0.0	0.0
70°	270.5	56.3	18.1	8.3	6.4	3.8	1.9	1.0	0.0	0.0	0.0
72.5°	77.7	35.3	15.0	6.0	4.5	3.2	1.6	0.6	0.3	0.0	0.0
75°	27.1	28.3	11.1	4.5	3.5	2.2	1.3	0.6	0.3	0.0	0.0
77.5°	16.2	22.9	7.0	3.8	2.9	1.9	1.3	0.6	0.3	0.3	0.0
80°	9.2	15.3	4.5	3.2	2.5	1.6	1.0	0.6	0.3	0.3	0.0
82.5°	5.1	7.3	3.5	2.9	2.2	1.6	1.0	0.6	0.3	0.3	0.3
85°	4.1	3.8	2.9	2.5	1.9	1.3	1.0	0.3	0.0	0.0	0.0
87.5°	3.2	2.5	2.5	2.5	1.9	1.3	1.0	0.3	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)