

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: P458545

Luminaire Tested: **GALN-SA1B-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458545
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-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 4394 lumens
Efficiency: N/A
Efficacy: 99.9 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

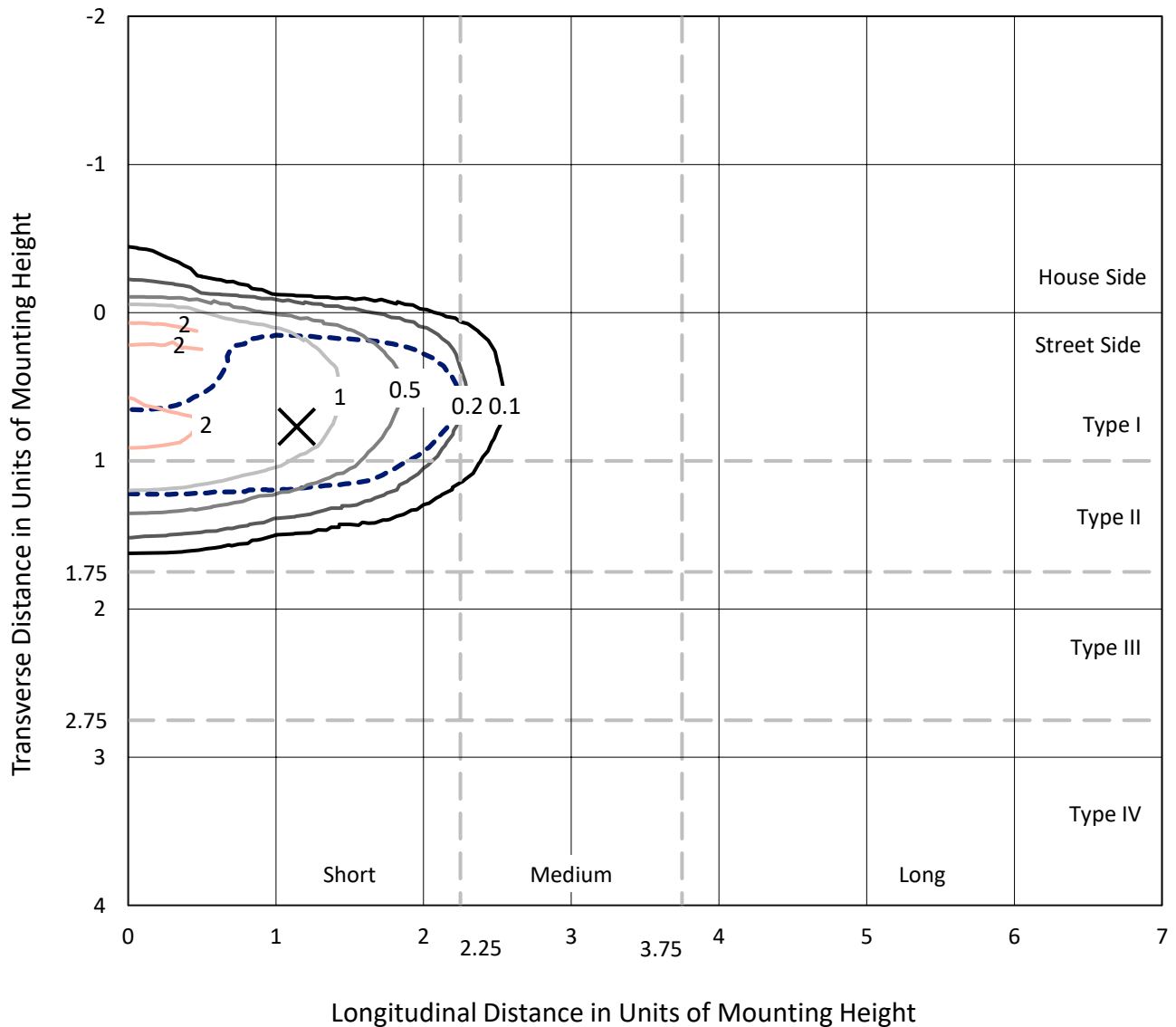
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

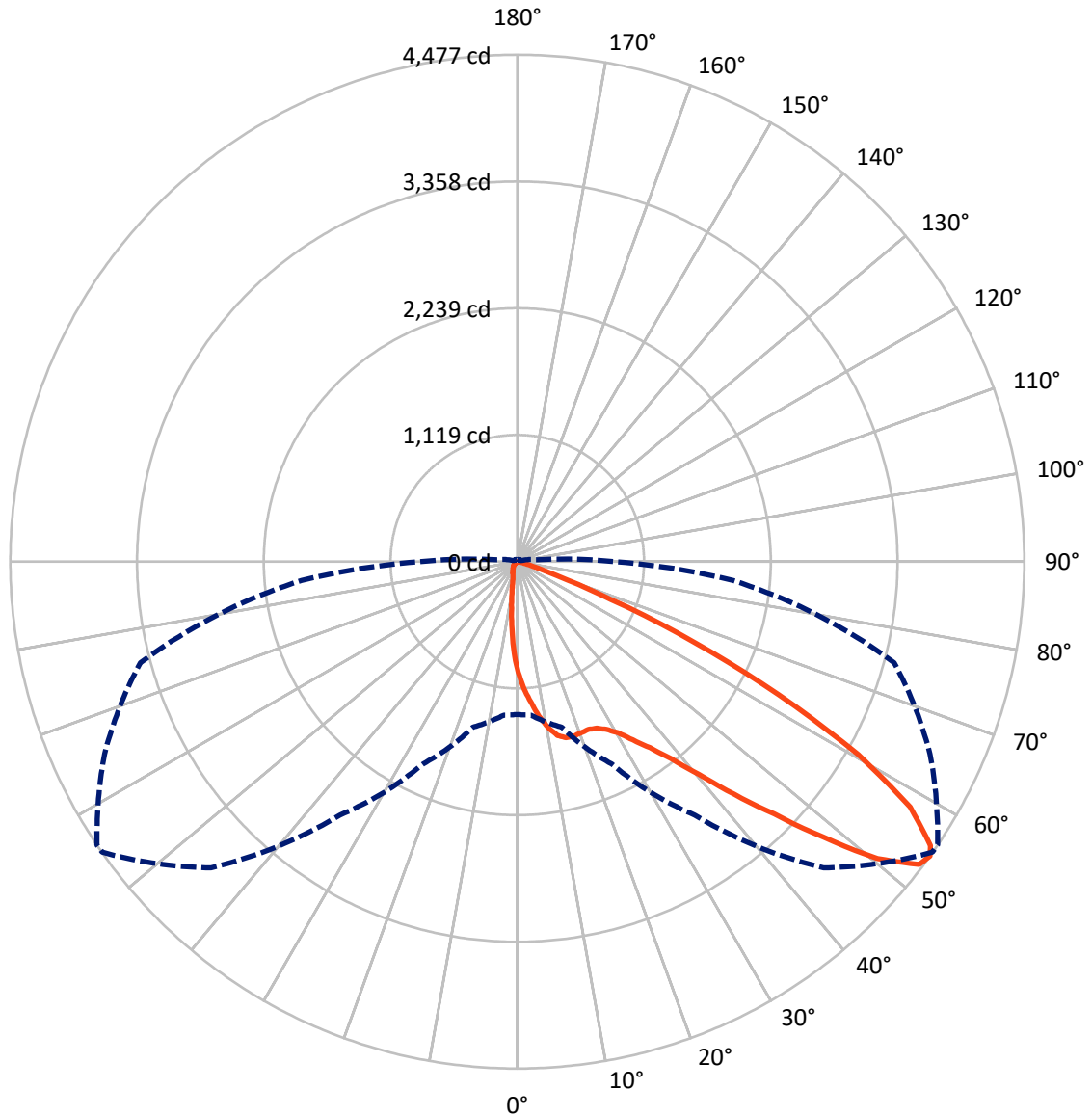
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	207.8	0.0	207.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	4186.2	0.0	4186.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	4394.0	0.0	4394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	2.0
10°-20°	233.2	5.3
20°-30°	403.9	9.2
30°-40°	697.2	15.9
40°-50°	1186.6	27.0
50°-60°	1174.3	26.7
60°-70°	536.0	12.2
70°-80°	68.8	1.6
80°-90°	7.8	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°	4394.0	100.0
0°-180°	4394.0	100.0

Coefficient of Utilization



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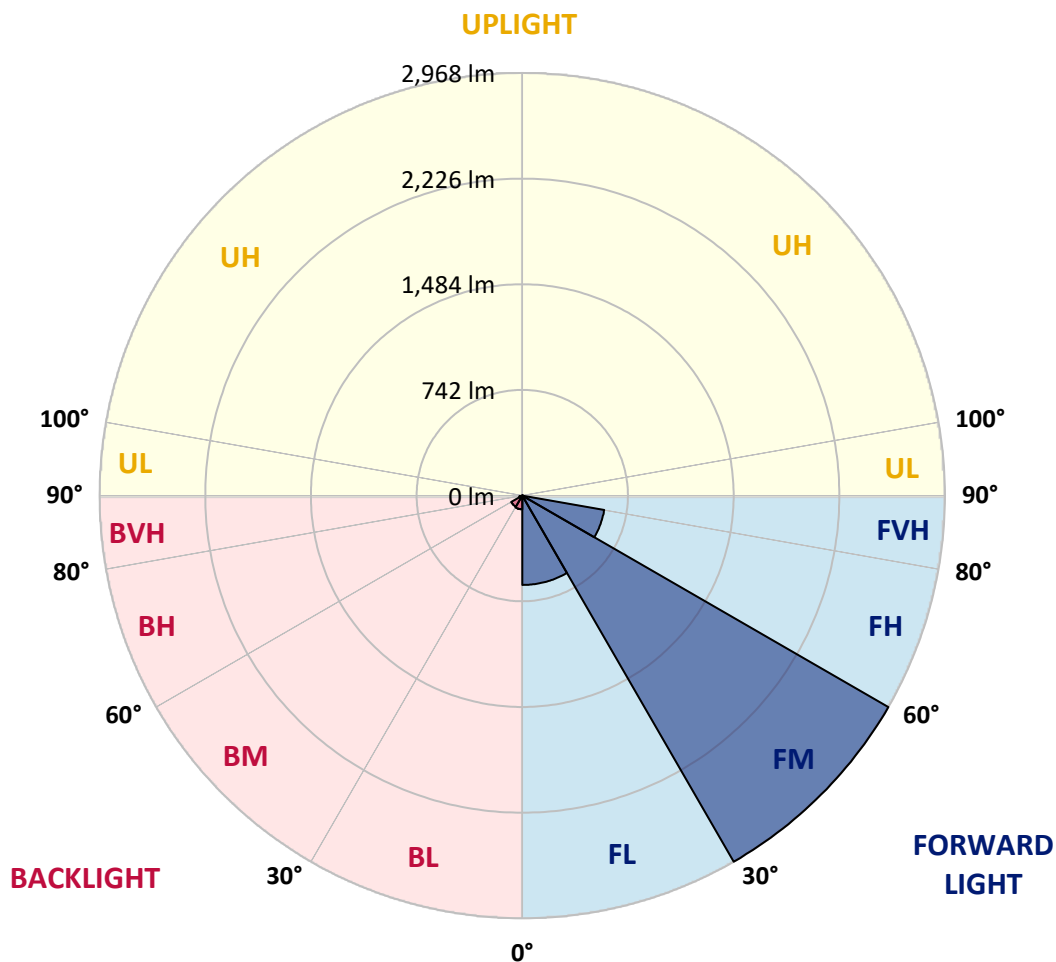
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.3	14.3			
FM (30°-60°)	2968.0	67.5			
FH (60°-80°)	584.0	13.3			G0/660
FVH (80°-90°)	6.9	0.2			G0/10
BL (0°-30°)	96.1	2.2	B0/110		
BM (30°-60°)	90.0	2.0	B0/220		
BH (60°-80°)	20.8	0.5	B0/110		G0/110
BVH (80°-90°)	0.8	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°	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2
2.5°	1240.7	1232.1	1220.2	1211.0	1189.4	1158.2	1125.3	1125.3	1093.6	1049.4	1004.4
5°	1431.0	1425.3	1413.8	1390.1	1365.8	1322.2	1256.1	1244.5	1187.9	1107.8	1023.7
7.5°	1508.4	1511.0	1511.6	1505.4	1493.8	1450.8	1385.3	1377.3	1286.9	1179.6	1048.9
10°	1434.2	1447.3	1460.0	1485.8	1522.3	1532.7	1495.6	1487.3	1398.4	1252.2	1076.1
12.5°	1324.0	1331.1	1338.2	1378.8	1452.0	1535.9	1574.8	1574.5	1499.2	1324.6	1110.8
15°	1272.7	1278.9	1279.5	1297.6	1361.0	1483.2	1608.6	1613.0	1597.6	1413.8	1148.2
17.5°	1283.3	1288.4	1284.2	1288.7	1321.9	1425.1	1604.7	1619.5	1677.3	1499.5	1182.0
20°	1353.0	1362.8	1346.8	1334.3	1344.4	1409.6	1591.7	1612.4	1733.7	1583.1	1212.8
22.5°	1478.1	1483.5	1463.3	1429.2	1411.4	1441.9	1588.1	1608.6	1781.7	1651.5	1230.6
25°	1617.2	1615.4	1593.1	1554.9	1517.5	1507.2	1611.5	1629.9	1821.4	1713.2	1235.9
27.5°	1756.2	1761.5	1724.2	1676.7	1632.0	1605.0	1664.0	1677.6	1866.2	1783.5	1242.4
30°	1917.8	1909.2	1872.4	1818.1	1766.9	1729.2	1748.5	1752.3	1927.8	1876.5	1259.6
32.5°	2127.9	2104.2	2063.0	1968.2	1931.4	1867.7	1872.4	1877.1	2002.8	1968.7	1280.4
35°	2413.1	2411.9	2331.3	2203.5	2114.0	2034.9	2014.1	2018.0	2116.4	2105.7	1326.3
37.5°	2756.4	2761.2	2669.3	2540.6	2375.8	2250.1	2207.4	2208.0	2288.9	2294.8	1396.3
40°	3036.0	3048.4	2993.6	2906.7	2744.0	2547.4	2475.7	2469.2	2531.4	2524.0	1496.2
42.5°	3156.3	3167.9	3188.4	3218.6	3129.1	2966.9	2797.6	2806.5	2825.5	2773.6	1608.3
45°	3097.3	3115.7	3196.1	3382.8	3467.0	3412.5	3210.6	3179.5	3099.1	3044.9	1720.9
47.5°	2851.6	2896.3	3030.6	3341.6	3636.3	3820.7	3676.6	3635.4	3373.0	3242.9	1792.7
50°	2447.5	2450.2	2637.2	3034.8	3548.5	4078.3	4152.4	4121.6	3628.3	3354.1	1828.8
52.5°	1774.3	1832.7	2004.0	2464.4	3168.5	4039.2	4455.7	4442.9	3891.5	3411.0	1881.0
54°	1348.9	1360.1	1512.5	1969.3	2731.8	3824.2	4474.4	4477.3	4022.3	3445.4	1911.8
55°	1105.8	1078.8	1238.9	1677.6	2433.9	3634.2	4413.3	4427.5	4081.0	3463.2	1934.7
57.5°	524.1	524.4	646.9	884.9	1524.4	2821.9	4040.1	4090.5	4087.5	3493.7	2004.9
60°	265.3	267.1	294.1	408.5	753.0	1876.0	3340.4	3460.5	3773.0	3498.1	2028.0
62.5°	185.6	183.5	179.1	196.5	316.9	953.4	2486.9	2591.3	3205.5	3328.9	1954.5
65°	158.9	154.5	142.0	139.3	160.1	379.8	1549.0	1719.1	2447.5	2882.4	1745.2
67.5°	135.8	134.0	122.7	115.9	113.2	165.4	799.2	888.8	1672.9	2071.9	1321.9
70°	115.3	114.4	107.6	99.0	91.6	99.0	296.5	367.3	932.3	1115.6	623.7
72.5°	93.7	94.6	95.8	84.8	77.1	70.3	126.6	147.3	390.1	398.7	218.2
75°	82.1	81.2	81.2	73.8	64.3	52.2	69.7	75.0	119.5	110.9	50.7
77.5°	57.8	55.7	65.2	60.8	53.7	37.1	39.7	42.1	49.5	42.4	23.7
80°	40.0	40.0	41.8	54.5	48.3	27.0	24.3	26.1	29.3	25.2	13.6
82.5°	22.5	23.1	27.3	29.1	28.2	18.1	16.0	16.3	19.6	17.2	8.6
85°	2.7	4.4	15.7	15.4	11.6	8.0	8.9	9.2	12.2	10.7	5.0
87.5°	0.3	0.6	3.3	4.2	3.0	3.3	3.3	3.3	4.2	4.7	3.6
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°	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2
2.5°	980.1	957.5	903.9	841.6	801.9	737.3	682.7	643.3	633.5	614.5	620.2
5°	978.9	932.0	822.7	707.0	583.7	491.8	423.3	369.4	345.7	330.0	319.0
7.5°	979.5	906.3	730.8	546.7	399.3	309.2	245.8	212.9	190.9	181.7	182.9
10°	981.3	877.2	624.0	405.0	269.5	199.8	161.0	145.3	137.9	136.7	136.4
12.5°	985.4	845.5	522.1	300.6	188.5	145.3	130.4	125.1	122.7	122.7	121.8
15°	989.9	810.5	437.3	223.5	145.3	124.8	118.0	115.3	113.8	113.8	113.5
17.5°	989.9	770.2	358.1	173.4	125.1	114.7	109.4	105.8	104.6	104.6	104.4
20°	983.6	723.3	287.9	139.6	113.5	105.2	99.9	96.1	94.6	94.0	93.7
22.5°	962.0	660.8	229.2	120.1	104.1	96.9	90.1	85.7	84.5	83.9	84.2
25°	923.5	590.2	181.4	105.5	95.5	86.9	80.9	77.7	76.5	76.5	76.8
27.5°	883.7	516.4	143.8	94.6	85.1	77.4	72.6	70.6	70.3	71.1	71.4
30°	847.0	442.3	116.5	85.7	75.9	69.4	66.1	65.5	65.5	65.8	66.1
32.5°	806.1	377.4	97.5	78.0	68.5	62.8	61.1	61.1	61.7	61.7	62.3
35°	780.3	321.7	85.7	70.6	62.8	58.1	56.9	57.2	58.1	59.3	59.9
37.5°	766.3	277.2	78.0	64.6	57.5	54.3	53.1	53.7	55.7	57.8	58.1
40°	767.5	243.7	71.7	59.6	53.4	49.8	48.9	50.7	52.8	54.8	55.1
42.5°	780.6	218.8	65.8	53.7	49.8	44.8	44.5	46.2	47.1	49.2	49.5
45°	796.0	200.7	59.6	47.4	43.3	38.8	39.1	40.6	41.8	45.1	45.7
47.5°	800.7	188.2	52.5	40.3	35.6	34.1	34.4	35.3	37.6	40.6	40.9
50°	806.1	180.5	45.7	34.1	30.2	29.9	30.2	30.8	32.3	33.5	33.2
52.5°	828.9	180.2	40.0	29.6	25.8	26.4	26.7	26.4	25.2	23.4	22.8
54°	850.2	181.1	37.4	27.6	23.7	24.6	24.3	22.8	19.9	18.1	17.2
55°	867.4	182.0	35.9	26.1	22.5	22.8	23.1	20.2	16.3	14.5	13.9
57.5°	901.2	179.9	32.3	22.8	19.9	18.7	18.4	13.3	8.9	7.7	7.1
60°	884.3	162.5	29.3	19.6	16.9	15.1	12.5	7.4	4.4	3.3	3.3
62.5°	817.9	137.9	26.1	16.0	13.9	11.6	6.5	4.2	2.1	1.2	0.9
65°	731.6	115.9	23.4	12.7	11.0	7.4	3.6	2.7	0.9	0.0	0.0
67.5°	544.0	86.0	19.9	10.1	8.3	4.7	2.4	1.5	0.3	0.0	0.0
70°	252.0	52.5	16.9	7.7	5.9	3.6	1.8	0.9	0.0	0.0	0.0
72.5°	72.3	32.9	13.9	5.6	4.2	3.0	1.5	0.6	0.3	0.0	0.0
75°	25.2	26.4	10.4	4.2	3.3	2.1	1.2	0.6	0.3	0.0	0.0
77.5°	15.1	21.3	6.5	3.6	2.7	1.8	1.2	0.6	0.3	0.3	0.0
80°	8.6	14.2	4.2	3.0	2.4	1.5	0.9	0.6	0.3	0.3	0.0
82.5°	4.7	6.8	3.3	2.7	2.1	1.5	0.9	0.6	0.3	0.3	0.3
85°	3.9	3.6	2.7	2.4	1.8	1.2	0.9	0.3	0.0	0.0	0.0
87.5°	3.0	2.4	2.4	2.4	1.8	1.2	0.9	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)