

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: P458574

Luminaire Tested: **GALN-SA1C-735-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458574  
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-SA1C-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA 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: 5429 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

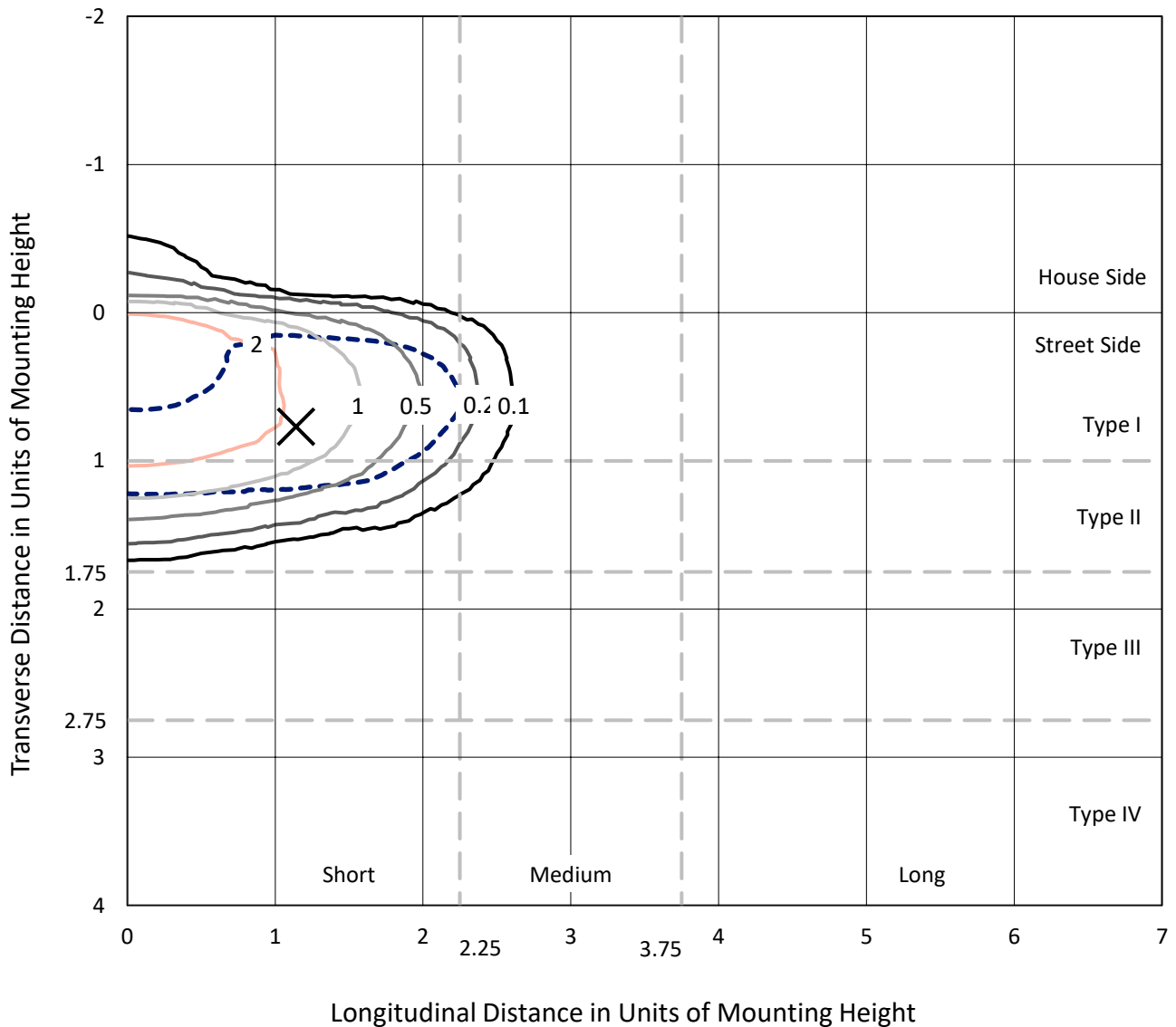
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

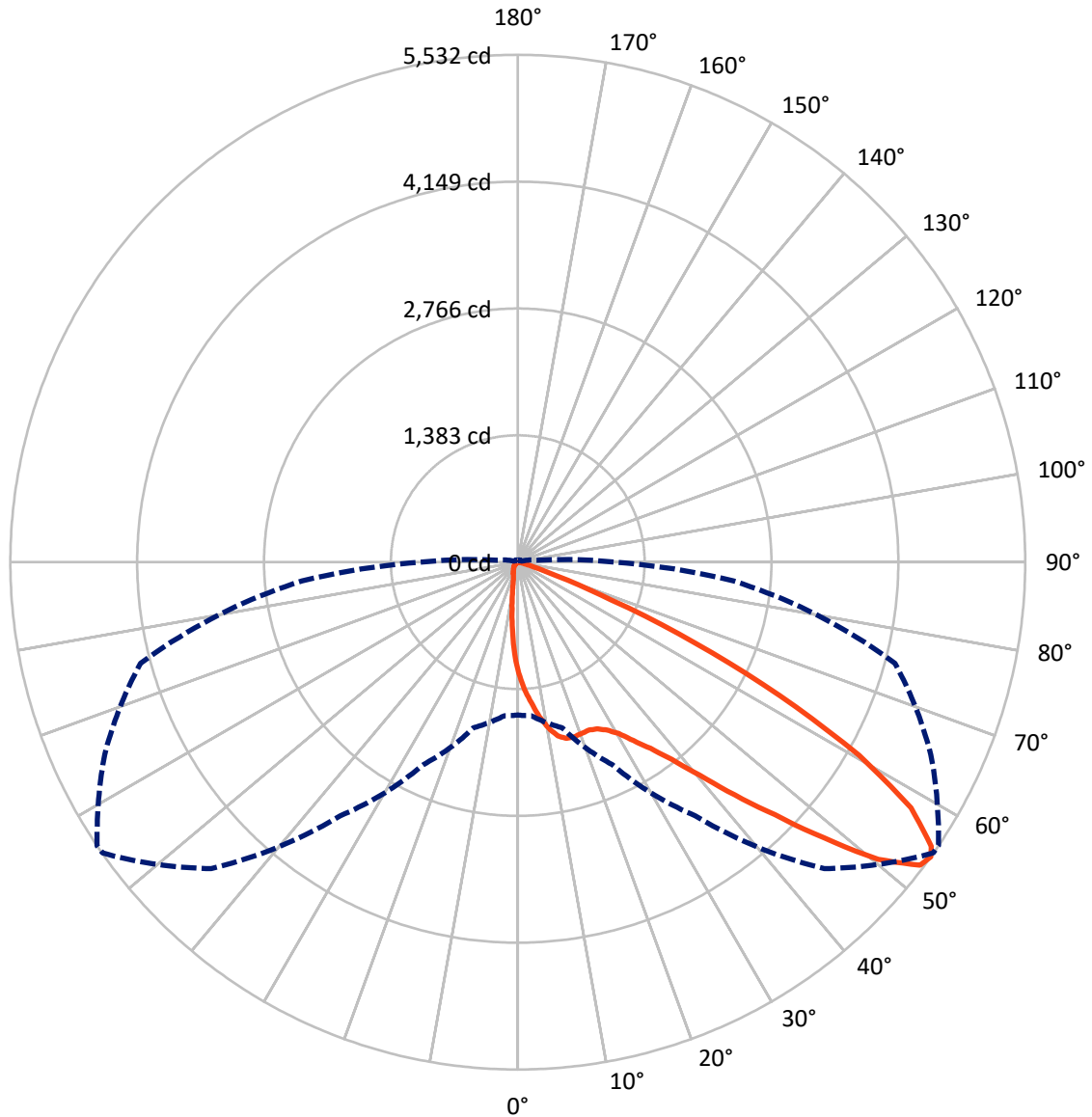
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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
<b>House Side</b>	Lumens	256.7	0.0	256.7
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	5172.3	0.0	5172.3
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	5429.0	0.0	5429.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.6	2.0
10°-20°	288.1	5.3
20°-30°	499.0	9.2
30°-40°	861.4	15.9
40°-50°	1466.1	27.0
50°-60°	1450.9	26.7
60°-70°	662.2	12.2
70°-80°	85.0	1.6
80°-90°	9.6	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°	5429.0	100.0
0°-180°	5429.0	100.0

**Coefficient of Utilization**



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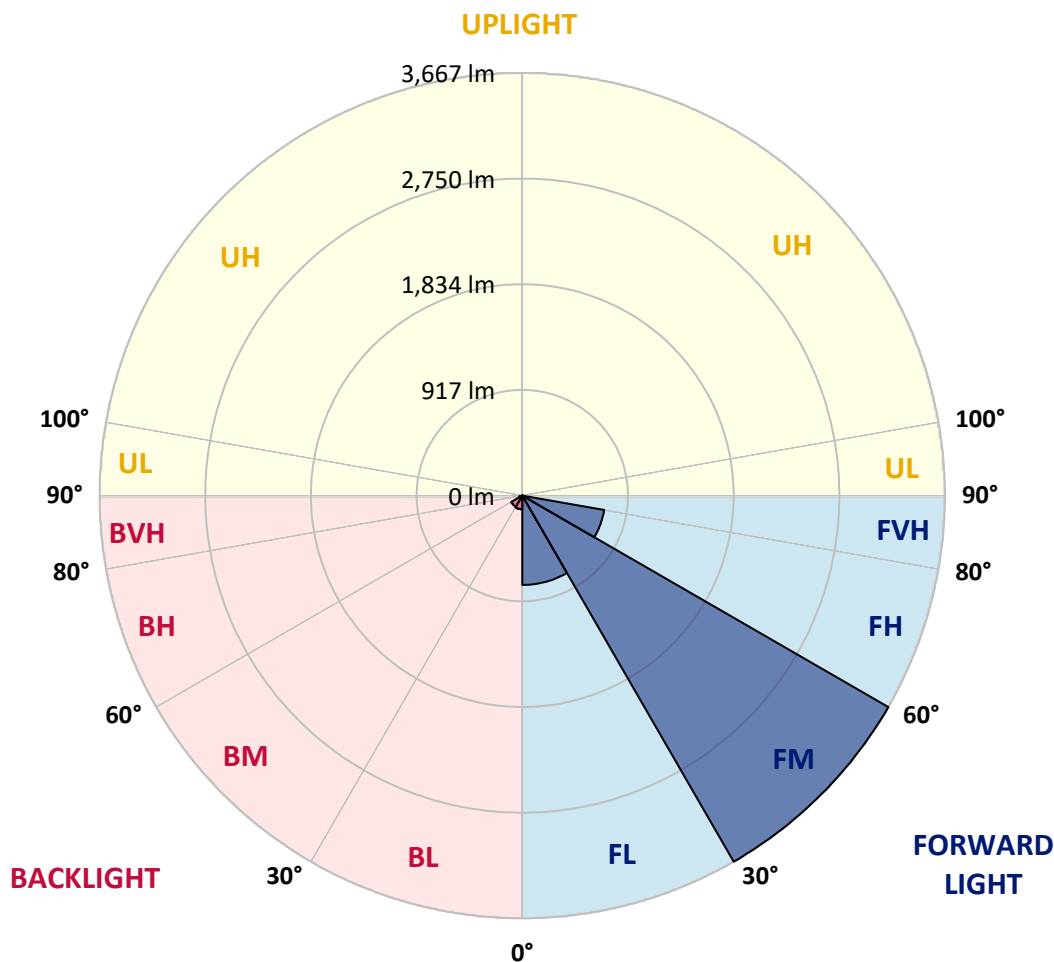
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.0	14.3			
FM (30°-60°)	3667.1	67.5			
FH (60°-80°)	721.6	13.3			G1/1800
FVH (80°-90°)	8.6	0.2			G0/10
BL (0°-30°)	118.7	2.2	B1/500		
BM (30°-60°)	111.3	2.0	B0/220		
BH (60°-80°)	25.7	0.5	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2
2.5°	1532.9	1522.3	1507.6	1496.3	1469.5	1431.1	1390.4	1390.4	1351.2	1296.6	1241.0
5°	1768.0	1761.1	1746.8	1717.5	1687.5	1633.6	1551.9	1537.7	1467.7	1368.8	1264.8
7.5°	1863.6	1866.9	1867.7	1860.0	1845.7	1792.6	1711.6	1701.7	1590.0	1457.4	1295.9
10°	1772.1	1788.2	1803.9	1835.8	1880.9	1893.7	1847.9	1837.6	1727.8	1547.2	1329.6
12.5°	1635.8	1644.6	1653.4	1703.6	1794.1	1897.7	1945.7	1945.3	1852.3	1636.5	1372.5
15°	1572.5	1580.1	1580.9	1603.2	1681.6	1832.5	1987.4	1992.9	1973.9	1746.8	1418.6
17.5°	1585.6	1591.9	1586.7	1592.2	1633.3	1760.7	1982.7	2001.0	2072.4	1852.7	1460.4
20°	1671.7	1683.8	1664.0	1648.6	1661.1	1741.7	1966.6	1992.2	2142.0	1955.9	1498.5
22.5°	1826.3	1832.9	1808.0	1765.8	1743.9	1781.6	1962.2	1987.4	2201.4	2040.6	1520.4
25°	1998.1	1995.9	1968.4	1921.2	1875.0	1862.2	1991.1	2013.8	2250.4	2116.7	1527.0
27.5°	2169.9	2176.4	2130.3	2071.7	2016.4	1983.1	2055.9	2072.8	2305.7	2203.6	1535.1
30°	2369.5	2358.9	2313.4	2246.4	2183.0	2136.5	2160.3	2165.1	2381.9	2318.6	1556.3
32.5°	2629.2	2599.9	2549.0	2431.7	2386.3	2307.6	2313.4	2319.3	2474.6	2432.5	1582.0
35°	2981.5	2980.1	2880.4	2722.6	2612.0	2514.2	2488.5	2493.3	2614.9	2601.7	1638.7
37.5°	3405.7	3411.6	3298.0	3139.0	2935.4	2780.1	2727.3	2728.1	2828.1	2835.4	1725.2
40°	3751.1	3766.5	3698.7	3591.4	3390.3	3147.5	3058.8	3050.8	3127.7	3118.5	1848.6
42.5°	3899.8	3914.1	3939.4	3976.7	3866.1	3665.8	3456.6	3467.6	3491.0	3426.9	1987.1
45°	3826.9	3849.6	3948.9	4179.6	4283.7	4216.3	3966.8	3928.4	3829.1	3762.1	2126.3
47.5°	3523.3	3578.6	3744.5	4128.7	4492.8	4720.6	4542.6	4491.7	4167.6	4006.8	2214.9
50°	3024.0	3027.3	3258.4	3749.6	4384.4	5038.9	5130.5	5092.4	4482.9	4144.1	2259.6
52.5°	2192.2	2264.4	2476.1	3044.9	3914.8	4990.6	5505.2	5489.5	4808.2	4214.4	2324.1
54°	1666.6	1680.5	1868.8	2433.2	3375.3	4725.0	5528.3	5532.0	4969.7	4256.9	2362.2
55°	1366.2	1332.9	1530.7	2072.8	3007.2	4490.3	5452.8	5470.4	5042.2	4278.9	2390.4
57.5°	647.6	648.0	799.2	1093.4	1883.4	3486.6	4991.7	5054.0	5050.3	4316.6	2477.2
60°	327.8	330.0	363.4	504.7	930.4	2317.8	4127.3	4275.6	4661.7	4322.1	2505.7
62.5°	229.3	226.7	221.2	242.8	391.6	1178.0	3072.7	3201.7	3960.6	4113.0	2414.9
65°	196.3	190.8	175.4	172.2	197.8	469.2	1913.8	2124.1	3024.0	3561.4	2156.3
67.5°	167.8	165.6	151.6	143.2	139.9	204.4	987.5	1098.1	2066.9	2559.9	1633.3
70°	142.5	141.4	133.0	122.3	113.2	122.3	366.3	453.8	1152.0	1378.3	770.7
72.5°	115.7	116.8	118.3	104.8	95.2	86.8	156.4	182.0	482.0	492.6	269.6
75°	101.5	100.4	100.4	91.2	79.5	64.5	86.1	92.7	147.6	137.0	62.6
77.5°	71.4	68.9	80.6	75.1	66.3	45.8	49.1	52.0	61.2	52.4	29.3
80°	49.4	49.4	51.6	67.4	59.7	33.3	30.0	32.2	36.3	31.1	16.8
82.5°	27.8	28.6	33.7	35.9	34.8	22.3	19.8	20.1	24.2	21.2	10.6
85°	3.3	5.5	19.4	19.0	14.3	9.9	11.0	11.4	15.0	13.2	6.2
87.5°	0.4	0.7	4.0	5.1	3.7	4.0	4.0	4.0	5.1	5.9	4.4
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°	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2	1206.2
2.5°	1210.9	1183.1	1116.8	1039.9	990.8	910.9	843.5	794.8	782.7	759.3	766.3
5°	1209.5	1151.6	1016.4	873.6	721.2	607.7	523.1	456.4	427.1	407.7	394.1
7.5°	1210.2	1119.7	902.9	675.4	493.4	382.0	303.6	263.0	235.9	224.5	226.0
10°	1212.4	1083.8	771.0	500.3	333.0	246.9	198.9	179.5	170.3	168.9	168.5
12.5°	1217.5	1044.6	645.0	371.4	233.0	179.5	161.2	154.6	151.6	151.6	150.5
15°	1223.0	1001.4	540.3	276.2	179.5	154.2	145.8	142.5	140.7	140.7	140.3
17.5°	1223.0	951.6	442.5	214.3	154.6	141.8	135.2	130.8	129.3	129.3	128.9
20°	1215.3	893.7	355.7	172.5	140.3	130.0	123.4	118.7	116.8	116.1	115.7
22.5°	1188.6	816.4	283.1	148.3	128.6	119.8	111.3	105.9	104.4	103.7	104.0
25°	1141.0	729.3	224.2	130.4	117.9	107.3	100.0	96.0	94.5	94.5	94.9
27.5°	1091.9	638.1	177.6	116.8	105.1	95.6	89.7	87.2	86.8	87.9	88.3
30°	1046.5	546.5	143.9	105.9	93.8	85.7	81.7	80.9	80.9	81.3	81.7
32.5°	995.9	466.3	120.5	96.3	84.6	77.7	75.5	75.5	76.2	76.2	76.9
35°	964.1	397.4	105.9	87.2	77.7	71.8	70.3	70.7	71.8	73.3	74.0
37.5°	946.8	342.5	96.3	79.8	71.1	67.0	65.6	66.3	68.9	71.4	71.8
40°	948.3	301.1	88.6	73.6	65.9	61.5	60.4	62.6	65.2	67.8	68.1
42.5°	964.4	270.3	81.3	66.3	61.5	55.3	54.9	57.1	58.2	60.8	61.2
45°	983.5	248.0	73.6	58.6	53.5	48.0	48.3	50.2	51.6	55.7	56.4
47.5°	989.3	232.6	64.8	49.8	44.0	42.1	42.5	43.6	46.5	50.2	50.5
50°	995.9	223.1	56.4	42.1	37.4	37.0	37.4	38.1	39.9	41.4	41.0
52.5°	1024.1	222.7	49.4	36.6	31.9	32.6	33.0	32.6	31.1	28.9	28.2
54°	1050.5	223.8	46.2	34.1	29.3	30.4	30.0	28.2	24.5	22.3	21.2
55°	1071.7	224.9	44.3	32.2	27.8	28.2	28.6	24.9	20.1	17.9	17.2
57.5°	1113.5	222.3	39.9	28.2	24.5	23.1	22.7	16.5	11.0	9.5	8.8
60°	1092.6	200.7	36.3	24.2	20.9	18.7	15.4	9.2	5.5	4.0	4.0
62.5°	1010.6	170.3	32.2	19.8	17.2	14.3	8.1	5.1	2.6	1.5	1.1
65°	904.0	143.2	28.9	15.8	13.6	9.2	4.4	3.3	1.1	0.0	0.0
67.5°	672.1	106.2	24.5	12.5	10.3	5.9	2.9	1.8	0.4	0.0	0.0
70°	311.3	64.8	20.9	9.5	7.3	4.4	2.2	1.1	0.0	0.0	0.0
72.5°	89.4	40.7	17.2	7.0	5.1	3.7	1.8	0.7	0.4	0.0	0.0
75°	31.1	32.6	12.8	5.1	4.0	2.6	1.5	0.7	0.4	0.0	0.0
77.5°	18.7	26.4	8.1	4.4	3.3	2.2	1.5	0.7	0.4	0.4	0.0
80°	10.6	17.6	5.1	3.7	2.9	1.8	1.1	0.7	0.4	0.4	0.0
82.5°	5.9	8.4	4.0	3.3	2.6	1.8	1.1	0.7	0.4	0.4	0.4
85°	4.8	4.4	3.3	2.9	2.2	1.5	1.1	0.4	0.0	0.0	0.0
87.5°	3.7	2.9	2.9	2.9	2.2	1.5	1.1	0.4	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)