

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: P450918

Luminaire Tested: **GALN-SA1D-730-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450918  
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-SA1D-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA 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: 5841 lumens  
Efficiency: N/A  
Efficacy: 89.9 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

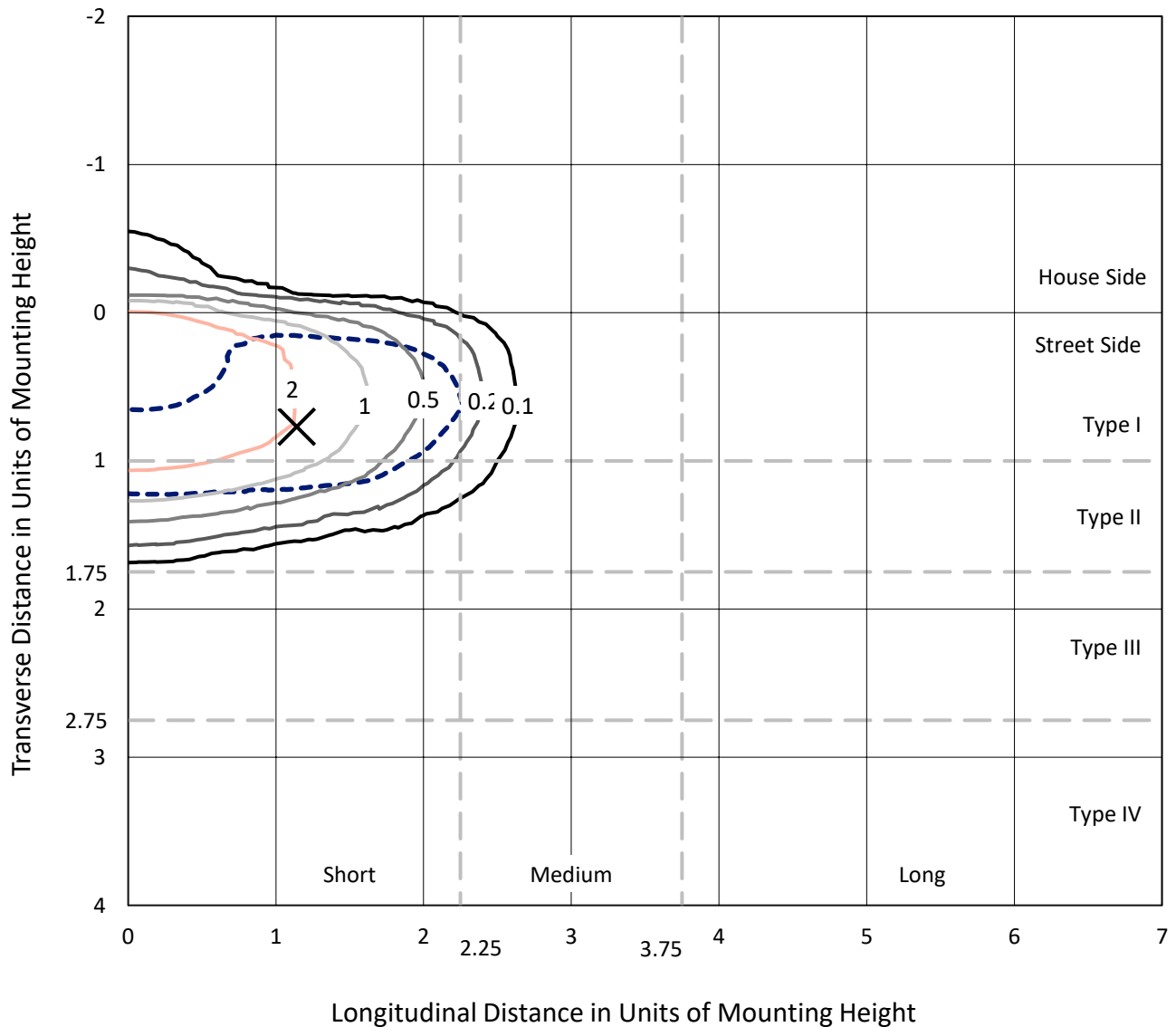
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

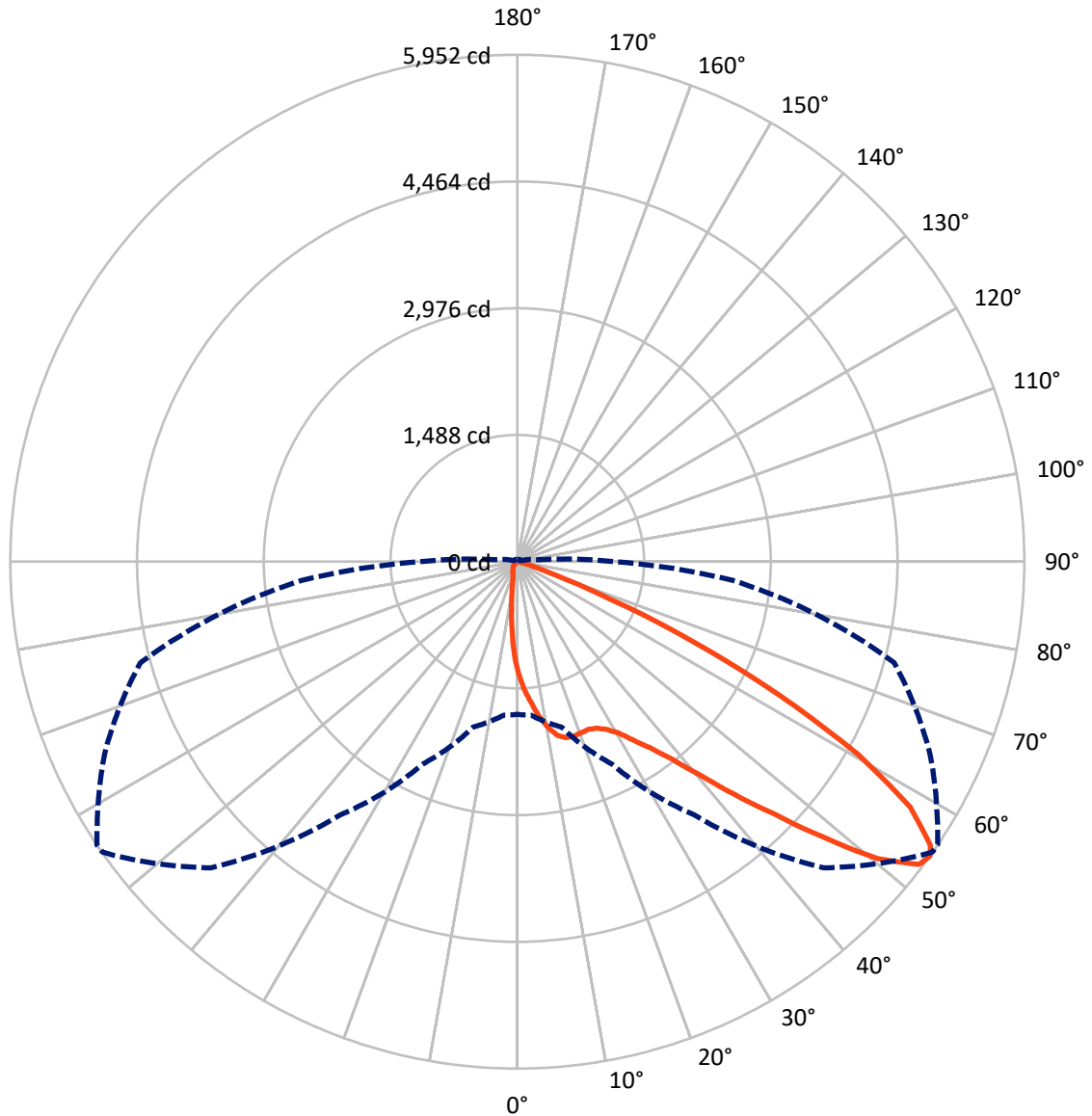
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	276.2	0.0	276.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	5564.8	0.0	5564.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	5841.0	0.0	5841.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.7	2.0
10°-20°	310.0	5.3
20°-30°	536.9	9.2
30°-40°	926.8	15.9
40°-50°	1577.4	27.0
50°-60°	1561.0	26.7
60°-70°	712.5	12.2
70°-80°	91.5	1.6
80°-90°	10.3	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°	5841.0	100.0
0°-180°	5841.0	100.0

**Coefficient of Utilization**



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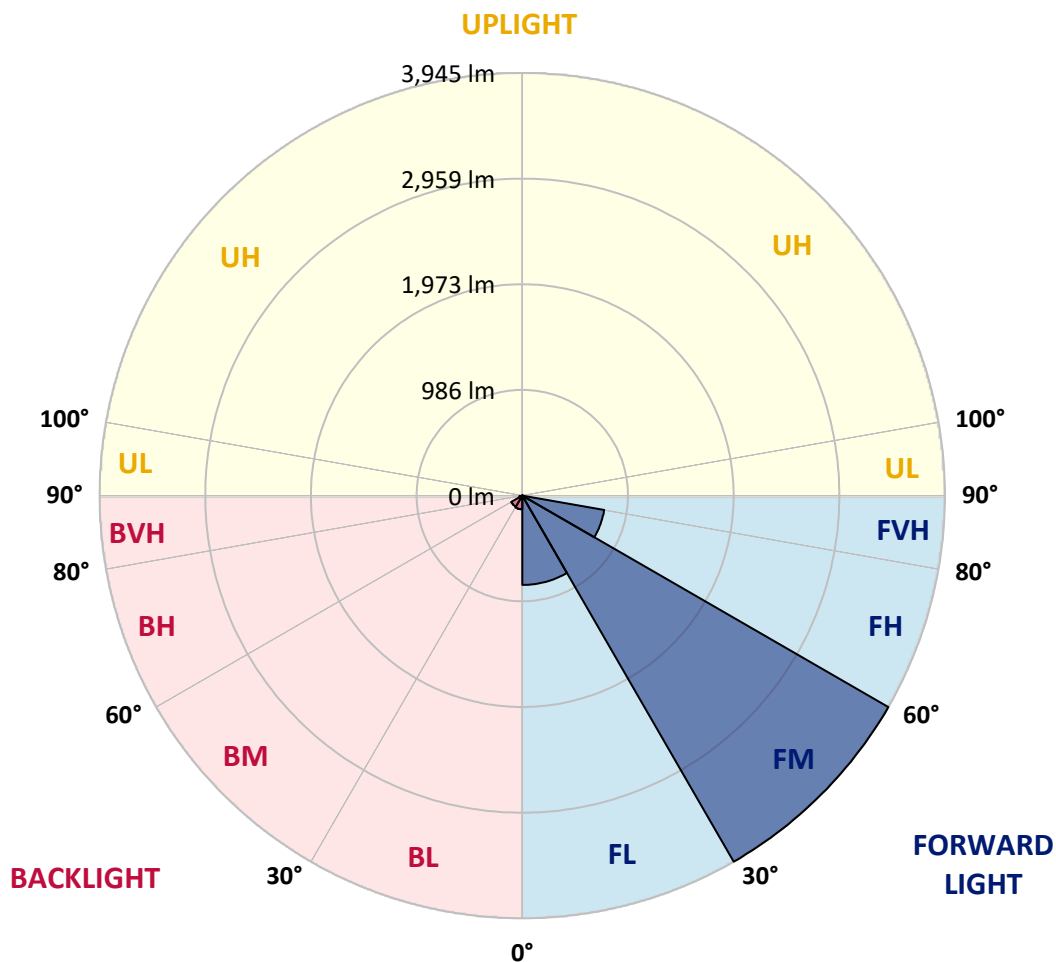
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.8	14.3			
FM (30°-60°)	3945.4	67.5			
FH (60°-80°)	776.3	13.3			G1/1800
FVH (80°-90°)	9.2	0.2			G0/10
BL (0°-30°)	127.7	2.2	B1/500		
BM (30°-60°)	119.7	2.0	B0/220		
BH (60°-80°)	27.7	0.5	B0/110		G0/110
BVH (80°-90°)	1.1	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°	1297.7	1297.7	1297.7	1297.7	1297.7	1297.7	1297.7	1297.7	1297.7	1297.7	1297.7
2.5°	1649.2	1637.8	1622.0	1609.8	1581.0	1539.7	1495.9	1495.9	1453.8	1395.0	1335.1
5°	1902.2	1894.7	1879.4	1847.8	1815.5	1757.6	1669.7	1654.3	1579.1	1472.7	1360.8
7.5°	2005.1	2008.6	2009.4	2001.1	1985.8	1928.6	1841.5	1830.9	1710.7	1568.0	1394.3
10°	1906.6	1923.9	1940.8	1975.1	2023.6	2037.4	1988.1	1977.1	1858.9	1664.6	1430.5
12.5°	1760.0	1769.4	1778.9	1832.9	1930.2	2041.7	2093.3	2093.0	1992.9	1760.7	1476.6
15°	1691.8	1700.1	1700.8	1724.9	1809.2	1971.6	2138.3	2144.2	2123.7	1879.4	1526.3
17.5°	1706.0	1712.7	1707.2	1713.1	1757.2	1894.3	2133.1	2152.9	2229.7	1993.3	1571.2
20°	1798.6	1811.6	1790.3	1773.7	1787.1	1873.8	2115.8	2143.4	2304.6	2104.4	1612.2
22.5°	1964.9	1972.0	1945.2	1899.9	1876.2	1916.8	2111.1	2138.3	2368.4	2195.4	1635.8
25°	2149.7	2147.3	2117.8	2066.9	2017.3	2003.5	2142.2	2166.6	2421.2	2277.4	1642.9
27.5°	2334.5	2341.6	2292.0	2228.9	2169.4	2133.5	2212.0	2230.1	2480.7	2370.8	1651.6
30°	2549.3	2537.9	2489.0	2416.9	2348.7	2298.7	2324.3	2329.4	2562.7	2494.5	1674.4
32.5°	2828.7	2797.2	2742.4	2616.3	2567.4	2482.7	2489.0	2495.3	2662.4	2617.1	1702.0
35°	3207.8	3206.2	3099.0	2929.2	2810.2	2705.0	2677.4	2682.5	2813.3	2799.1	1763.1
37.5°	3664.1	3670.5	3548.3	3377.3	3158.1	2991.1	2934.3	2935.1	3042.7	3050.6	1856.1
40°	4035.8	4052.3	3979.4	3863.9	3647.6	3386.3	3291.0	3282.3	3365.0	3355.2	1988.9
42.5°	4195.8	4211.1	4238.3	4278.5	4159.5	3943.9	3718.9	3730.7	3756.0	3687.0	2137.9
45°	4117.3	4141.8	4248.6	4496.8	4608.8	4536.2	4267.9	4226.5	4119.7	4047.6	2287.6
47.5°	3790.6	3850.2	4028.7	4442.1	4833.8	5078.9	4887.4	4832.6	4483.8	4310.8	2383.0
50°	3253.5	3257.1	3505.7	4034.2	4717.1	5421.3	5519.9	5478.9	4823.1	4458.6	2431.1
52.5°	2358.6	2436.2	2664.0	3276.0	4211.9	5369.3	5923.0	5906.1	5173.1	4534.3	2500.4
54°	1793.1	1808.0	2010.6	2617.9	3631.4	5083.6	5947.8	5951.8	5346.9	4580.0	2541.4
55°	1469.9	1434.1	1646.9	2230.1	3235.4	4831.0	5866.7	5885.6	5424.9	4603.6	2571.8
57.5°	696.7	697.1	859.9	1176.3	2026.4	3751.2	5370.5	5437.5	5433.6	4644.2	2665.2
60°	352.7	355.1	390.9	543.0	1001.0	2493.7	4440.5	4600.1	5015.4	4650.1	2695.9
62.5°	246.7	243.9	238.0	261.3	421.3	1267.4	3305.9	3444.6	4261.2	4425.1	2598.2
65°	211.2	205.3	188.8	185.2	212.8	504.8	2059.1	2285.3	3253.5	3831.6	2319.9
67.5°	180.5	178.1	163.1	154.1	150.5	219.9	1062.4	1181.4	2223.8	2754.2	1757.2
70°	153.3	152.1	143.1	131.6	121.8	131.6	394.1	488.3	1239.4	1482.9	829.1
72.5°	124.5	125.7	127.3	112.7	102.5	93.4	168.3	195.9	518.6	530.0	290.0
75°	109.2	108.0	108.0	98.1	85.5	69.4	92.6	99.7	158.8	147.4	67.4
77.5°	76.8	74.1	86.7	80.8	71.3	49.3	52.8	56.0	65.8	56.4	31.5
80°	53.2	53.2	55.6	72.5	64.2	35.9	32.3	34.7	39.0	33.5	18.1
82.5°	30.0	30.7	36.3	38.6	37.4	24.0	21.3	21.7	26.0	22.9	11.4
85°	3.5	5.9	20.9	20.5	15.4	10.6	11.8	12.2	16.2	14.2	6.7
87.5°	0.4	0.8	4.3	5.5	3.9	4.3	4.3	4.3	5.5	6.3	4.7
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°	1297.7	1297.7	1297.7	1297.7	1297.7	1297.7	1297.7	1297.7	1297.7	1297.7	1297.7
2.5°	1302.8	1272.9	1201.5	1118.8	1066.0	980.1	907.6	855.2	842.1	816.9	824.4
5°	1301.2	1239.0	1093.6	939.9	775.9	653.8	562.7	491.0	459.5	438.6	424.0
7.5°	1302.0	1204.7	971.4	726.7	530.8	411.0	326.7	282.9	253.8	241.6	243.1
10°	1304.4	1166.1	829.5	538.3	358.2	265.6	214.0	193.1	183.2	181.7	181.3
12.5°	1309.9	1123.9	694.0	399.6	250.6	193.1	173.4	166.3	163.1	163.1	162.0
15°	1315.8	1077.4	581.3	297.1	193.1	165.9	156.8	153.3	151.3	151.3	150.9
17.5°	1315.8	1023.8	476.0	230.5	166.3	152.5	145.4	140.7	139.1	139.1	138.7
20°	1307.6	961.6	382.7	185.6	150.9	139.9	132.8	127.7	125.7	124.9	124.5
22.5°	1278.8	878.4	304.6	159.6	138.3	128.9	119.8	113.9	112.3	111.5	111.9
25°	1227.6	784.6	241.2	140.3	126.9	115.5	107.6	103.2	101.7	101.7	102.1
27.5°	1174.7	686.5	191.1	125.7	113.1	102.9	96.5	93.8	93.4	94.6	95.0
30°	1125.9	588.0	154.9	113.9	100.9	92.2	87.9	87.1	87.1	87.5	87.9
32.5°	1071.5	501.7	129.7	103.6	91.0	83.5	81.2	81.2	82.0	82.0	82.8
35°	1037.2	427.6	113.9	93.8	83.5	77.2	75.7	76.1	77.2	78.8	79.6
37.5°	1018.7	368.5	103.6	85.9	76.5	72.1	70.5	71.3	74.1	76.8	77.2
40°	1020.3	323.9	95.4	79.2	70.9	66.2	65.0	67.4	70.1	72.9	73.3
42.5°	1037.6	290.8	87.5	71.3	66.2	59.5	59.1	61.5	62.7	65.4	65.8
45°	1058.1	266.8	79.2	63.1	57.5	51.6	52.0	54.0	55.6	59.9	60.7
47.5°	1064.4	250.2	69.8	53.6	47.3	45.3	45.7	46.9	50.0	54.0	54.4
50°	1071.5	240.0	60.7	45.3	40.2	39.8	40.2	41.0	43.0	44.5	44.1
52.5°	1101.8	239.6	53.2	39.4	34.3	35.1	35.5	35.1	33.5	31.1	30.3
54°	1130.2	240.8	49.7	36.6	31.5	32.7	32.3	30.3	26.4	24.0	22.9
55°	1153.1	242.0	47.7	34.7	30.0	30.3	30.7	26.8	21.7	19.3	18.5
57.5°	1198.0	239.2	43.0	30.3	26.4	24.8	24.4	17.7	11.8	10.2	9.5
60°	1175.5	216.0	39.0	26.0	22.5	20.1	16.6	9.9	5.9	4.3	4.3
62.5°	1087.3	183.2	34.7	21.3	18.5	15.4	8.7	5.5	2.8	1.6	1.2
65°	972.6	154.1	31.1	16.9	14.6	9.9	4.7	3.5	1.2	0.0	0.0
67.5°	723.1	114.3	26.4	13.4	11.0	6.3	3.2	2.0	0.4	0.0	0.0
70°	335.0	69.8	22.5	10.2	7.9	4.7	2.4	1.2	0.0	0.0	0.0
72.5°	96.2	43.7	18.5	7.5	5.5	3.9	2.0	0.8	0.4	0.0	0.0
75°	33.5	35.1	13.8	5.5	4.3	2.8	1.6	0.8	0.4	0.0	0.0
77.5°	20.1	28.4	8.7	4.7	3.5	2.4	1.6	0.8	0.4	0.4	0.0
80°	11.4	18.9	5.5	3.9	3.2	2.0	1.2	0.8	0.4	0.4	0.0
82.5°	6.3	9.1	4.3	3.5	2.8	2.0	1.2	0.8	0.4	0.4	0.4
85°	5.1	4.7	3.5	3.2	2.4	1.6	1.2	0.4	0.0	0.0	0.0
87.5°	3.9	3.2	3.2	3.2	2.4	1.6	1.2	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)