

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: P458739

Luminaire Tested: **GALN-SA2D-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458739  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11346 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

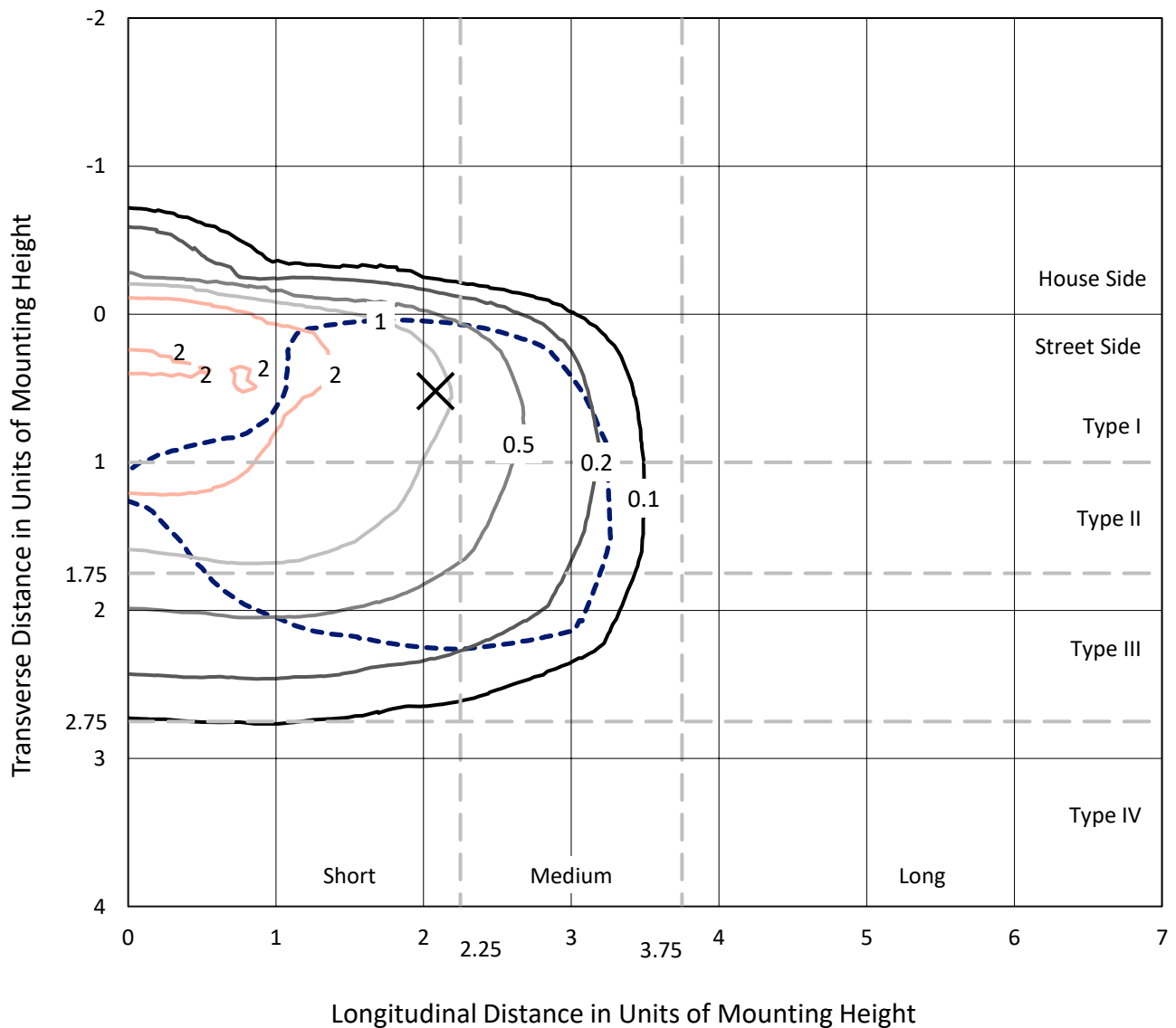
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

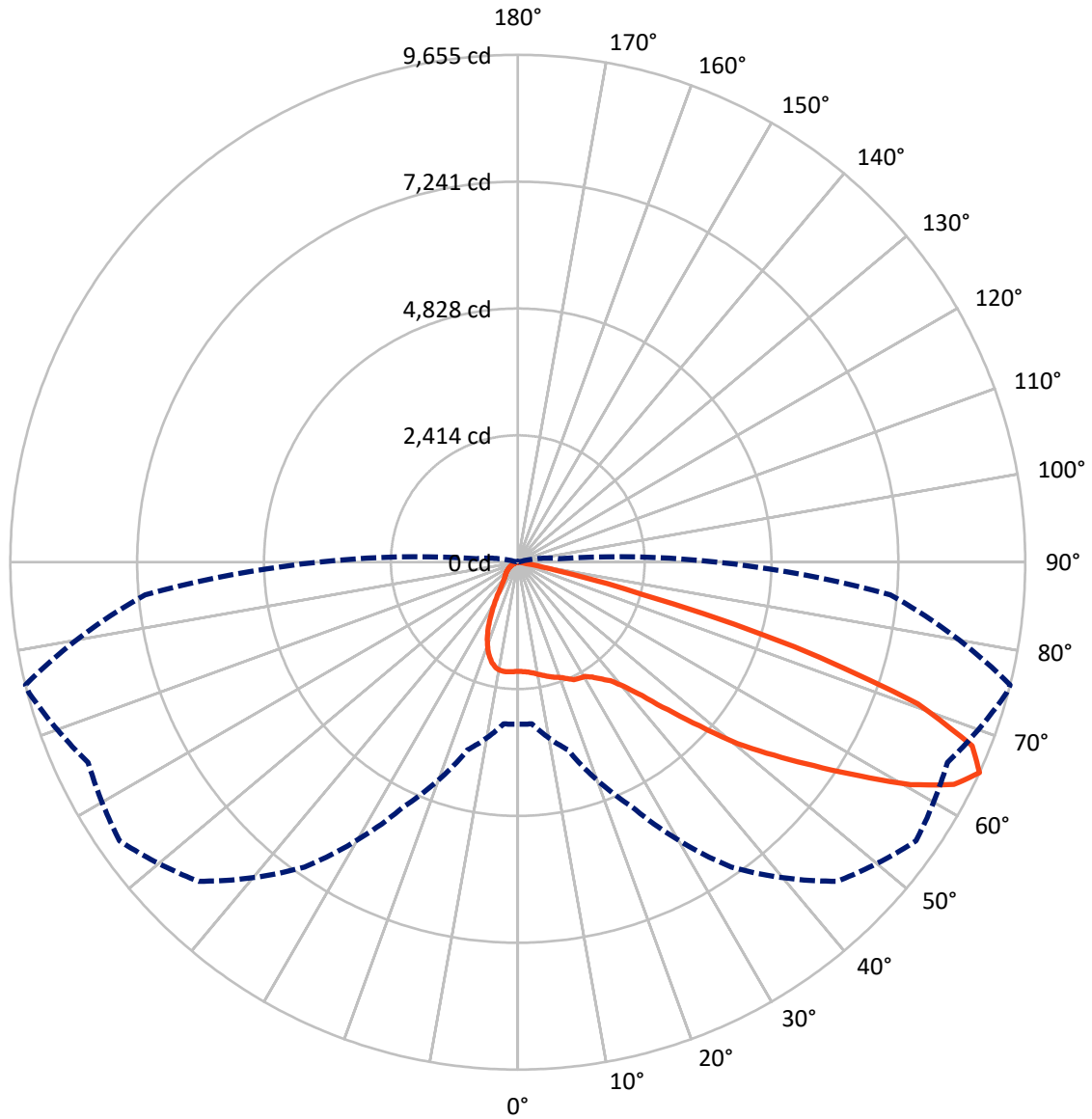
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	819.4	0.0	819.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	10526.6	0.0	10526.6
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	11346.0	0.0	11346.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.0	1.5
10°-20°	380.7	3.4
20°-30°	613.5	5.4
30°-40°	1066.6	9.4
40°-50°	1762.6	15.5
50°-60°	2722.8	24.0
60°-70°	3324.9	29.3
70°-80°	1261.9	11.1
80°-90°	42.1	0.4
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°	11346.0	100.0
0°-180°	11346.0	100.0

**Coefficient of Utilization**



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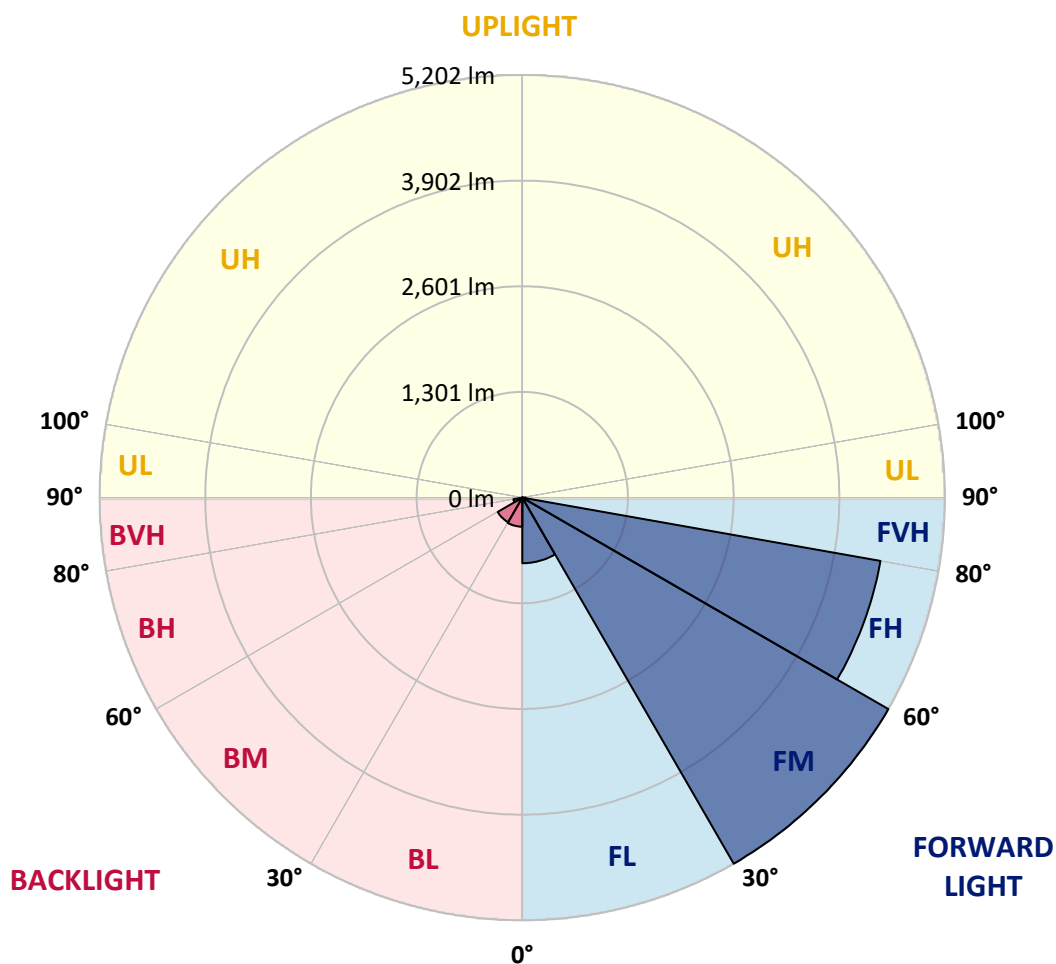
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.1	7.1			
FM (30°-60°)	5202.3	45.9			
FH (60°-80°)	4475.6	39.4			G2/5000
FVH (80°-90°)	41.5	0.4			G1/100
BL (0°-30°)	358.0	3.2	B1/500		
BM (30°-60°)	349.7	3.1	B1/1000		
BH (60°-80°)	111.2	1.0	B1/500		G1/500
BVH (80°-90°)	0.6	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5
2.5°	1983.4	1984.2	1989.0	2001.0	2019.5	2034.7	2047.5	2068.3	2082.8	2084.4	2089.2
5°	1846.4	1836.8	1846.4	1877.7	1905.7	1948.2	2000.2	2052.3	2098.8	2102.0	2124.4
7.5°	1692.6	1700.6	1715.9	1747.9	1800.8	1865.7	1941.0	2033.9	2122.0	2130.0	2174.1
10°	1536.4	1554.1	1578.9	1627.8	1701.5	1785.6	1888.1	2021.1	2158.9	2170.1	2246.2
12.5°	1392.2	1400.3	1430.7	1496.4	1587.7	1706.3	1848.0	2013.9	2199.7	2213.3	2323.1
15°	1281.7	1292.1	1318.5	1377.8	1479.6	1631.8	1815.2	2011.5	2239.8	2259.0	2400.0
17.5°	1260.9	1267.3	1278.5	1318.5	1407.5	1572.5	1785.6	2010.7	2278.2	2301.4	2471.3
20°	1346.6	1341.0	1329.8	1325.8	1374.6	1526.8	1763.9	2017.1	2315.1	2341.5	2546.6
22.5°	1561.3	1568.5	1502.8	1425.1	1409.1	1519.6	1760.7	2047.5	2373.5	2404.8	2630.7
25°	2017.1	1961.8	1859.3	1673.4	1533.2	1563.7	1796.8	2119.6	2441.6	2476.1	2706.8
27.5°	2520.9	2504.1	2344.7	2038.7	1777.6	1656.6	1860.9	2174.9	2464.1	2499.3	2750.0
30°	3016.0	3036.0	2853.4	2515.3	2132.4	1828.8	1920.9	2195.7	2484.1	2520.9	2805.3
32.5°	3475.0	3499.0	3338.8	3004.0	2550.6	2126.8	2024.3	2276.6	2568.2	2605.8	2897.4
35°	3836.3	3839.5	3718.5	3451.8	3007.2	2488.9	2247.8	2418.4	2681.9	2726.0	2995.2
37.5°	4167.9	4163.1	4021.3	3791.4	3387.7	2848.6	2528.9	2581.8	2811.7	2857.4	3136.1
40°	4413.8	4417.0	4371.4	4155.1	3742.6	3181.0	2751.6	2734.8	3029.6	3100.9	3341.2
42.5°	4578.1	4607.7	4630.1	4520.4	4188.7	3590.3	3093.7	3062.5	3407.7	3467.0	3631.2
45°	4711.0	4763.9	4876.0	4870.4	4617.3	4092.6	3563.1	3499.0	3943.6	4006.9	4000.5
47.5°	4808.0	4861.6	5047.5	5159.6	5020.2	4579.7	4153.5	4098.2	4583.7	4652.6	4408.2
50°	4857.6	4921.7	5158.8	5375.9	5335.1	5049.1	4826.4	4829.6	5356.7	5423.2	4880.9
52.5°	4741.5	4824.8	5218.1	5609.0	5688.3	5498.5	5456.8	5562.6	6044.8	6101.7	5307.8
55°	4370.6	4475.5	5137.2	5807.7	6097.7	6028.8	6173.0	6334.0	6797.0	6833.8	5746.0
57.5°	4135.9	4247.2	4898.5	5976.7	6589.5	6695.3	6923.6	7041.3	7573.2	7666.9	6249.1
60°	3938.0	4025.3	4702.2	6012.8	7089.4	7510.7	7732.6	7854.4	8531.3	8592.2	6802.6
62.5°	3608.8	3708.9	4370.6	5761.2	7340.9	8163.6	8623.4	8568.9	9272.3	9314.7	7142.2
65°	3079.3	3088.1	3697.7	5129.2	7081.4	8587.4	9249.0	9020.7	9626.3	9655.2	7115.8
67.5°	2298.2	2383.2	2844.6	4031.7	5981.5	8225.3	9451.7	9032.7	9402.8	9322.7	6551.1
70°	1480.4	1545.2	1928.2	2795.7	4312.9	6864.3	8779.6	8413.5	8252.5	8074.7	5362.3
72.5°	683.3	766.6	1145.5	1597.3	2557.8	4889.7	7127.0	6835.4	5939.9	5500.9	3408.5
75°	298.0	318.8	565.5	842.7	1199.2	2585.8	4699.0	4243.2	2682.7	2450.4	1364.2
77.5°	181.8	195.5	296.4	451.8	471.0	985.3	2531.3	1851.2	829.1	731.4	370.1
80°	123.4	138.6	215.5	236.3	161.0	274.8	950.1	494.3	167.4	160.2	79.3
82.5°	60.1	76.1	159.4	132.2	69.7	88.1	276.4	105.7	48.9	45.7	28.0
85°	8.8	15.2	89.7	86.5	31.2	20.8	48.9	26.4	16.8	16.0	12.8
87.5°	0.0	0.0	30.4	13.6	3.2	3.2	5.6	5.6	6.4	5.6	6.4
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°	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5	2075.5
2.5°	2091.6	2095.6	2080.4	2058.7	2035.5	2012.3	1979.4	1949.8	1932.2	1942.6	1916.9
5°	2129.2	2126.0	2086.0	2020.3	1933.0	1828.0	1723.9	1635.0	1606.1	1562.9	1558.1
7.5°	2181.3	2172.5	2087.6	1937.0	1739.9	1542.8	1350.6	1223.2	1150.3	1088.6	1090.2
10°	2254.2	2228.5	2069.1	1790.4	1465.9	1168.7	923.6	755.4	682.5	659.3	640.8
12.5°	2329.5	2279.8	2017.9	1592.5	1141.5	798.7	561.5	459.0	414.1	399.7	398.1
15°	2396.8	2318.3	1928.2	1354.6	829.9	510.3	382.9	349.3	343.7	344.5	343.7
17.5°	2463.3	2348.7	1804.0	1102.3	563.9	366.1	329.2	321.2	323.6	326.8	326.0
20°	2518.5	2355.1	1645.4	841.1	398.9	321.2	309.2	307.6	310.0	312.4	312.4
22.5°	2578.6	2359.9	1457.1	582.4	326.0	298.8	292.4	292.4	295.6	298.8	299.6
25°	2623.5	2333.5	1232.0	418.2	287.6	277.2	274.0	274.8	278.0	279.6	278.8
27.5°	2630.7	2259.0	993.3	320.4	261.1	250.7	247.5	250.7	246.7	249.1	247.5
30°	2637.1	2164.5	751.4	270.0	237.1	221.1	216.3	211.5	208.3	204.3	203.5
32.5°	2657.1	2053.1	548.7	242.7	214.7	197.1	185.8	172.2	161.8	158.6	157.8
35°	2665.9	1919.3	402.9	221.1	194.7	175.4	155.4	136.2	121.0	115.4	119.4
37.5°	2699.6	1789.6	312.4	205.1	177.0	153.0	127.4	103.3	88.9	85.7	87.3
40°	2768.5	1648.6	261.9	191.5	161.8	132.2	100.9	77.7	68.1	64.9	64.1
42.5°	2879.0	1508.4	233.1	178.6	146.6	111.3	79.3	60.9	52.9	50.5	50.5
45°	3013.6	1373.8	213.1	165.0	130.6	89.7	62.5	48.9	44.1	42.5	42.5
47.5°	3190.6	1256.1	196.3	151.4	112.9	71.3	50.5	42.5	39.3	40.1	40.9
50°	3370.1	1168.7	177.8	136.2	92.9	58.5	43.3	37.6	36.8	37.6	37.6
52.5°	3505.4	1117.5	153.0	115.4	72.9	48.9	38.5	35.2	34.4	32.8	32.8
55°	3688.1	1106.3	121.8	93.7	57.7	40.9	34.4	32.0	29.6	28.0	27.2
57.5°	3922.8	1119.1	93.7	72.9	44.9	33.6	30.4	26.4	23.2	20.0	20.0
60°	4068.6	1090.2	72.9	56.1	32.8	27.2	23.2	19.2	15.2	12.8	12.0
62.5°	4022.1	968.5	57.7	41.7	23.2	20.0	15.2	12.8	8.8	6.4	5.6
65°	3782.6	781.8	46.5	28.8	16.8	12.0	8.0	8.0	4.0	0.8	0.0
67.5°	3310.8	579.2	36.8	19.2	9.6	5.6	4.0	2.4	0.0	0.0	0.0
70°	2694.8	418.2	28.8	12.0	5.6	4.0	1.6	0.8	0.0	0.0	0.0
72.5°	1711.1	239.5	22.4	7.2	4.0	1.6	0.0	0.0	0.0	0.0	0.0
75°	661.7	93.7	15.2	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	187.4	44.1	8.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	48.9	19.2	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.2	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.6	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	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)