

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: P451679

Luminaire Tested: **GALN-SA2C-750-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451679  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-750-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11629 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

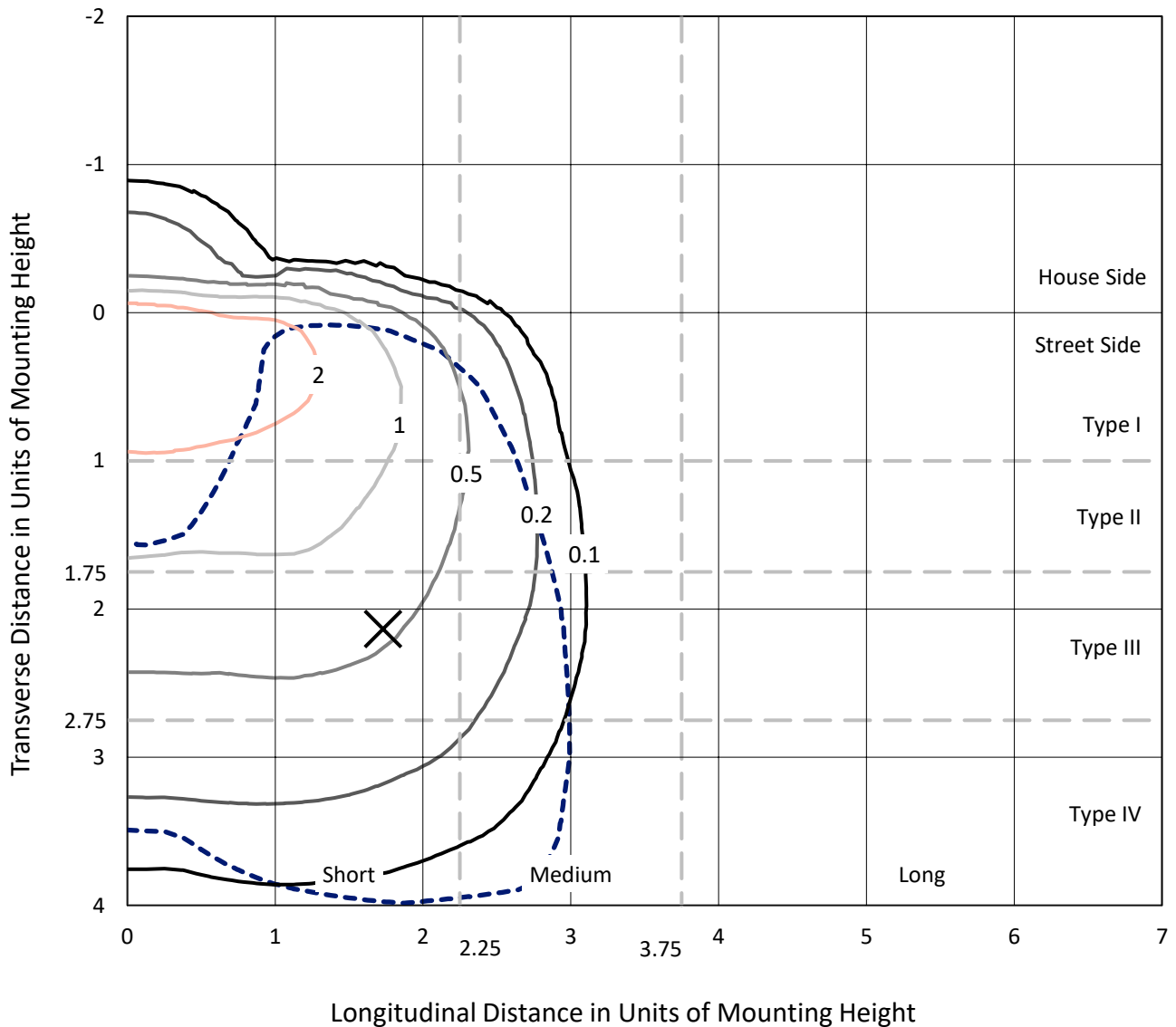
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

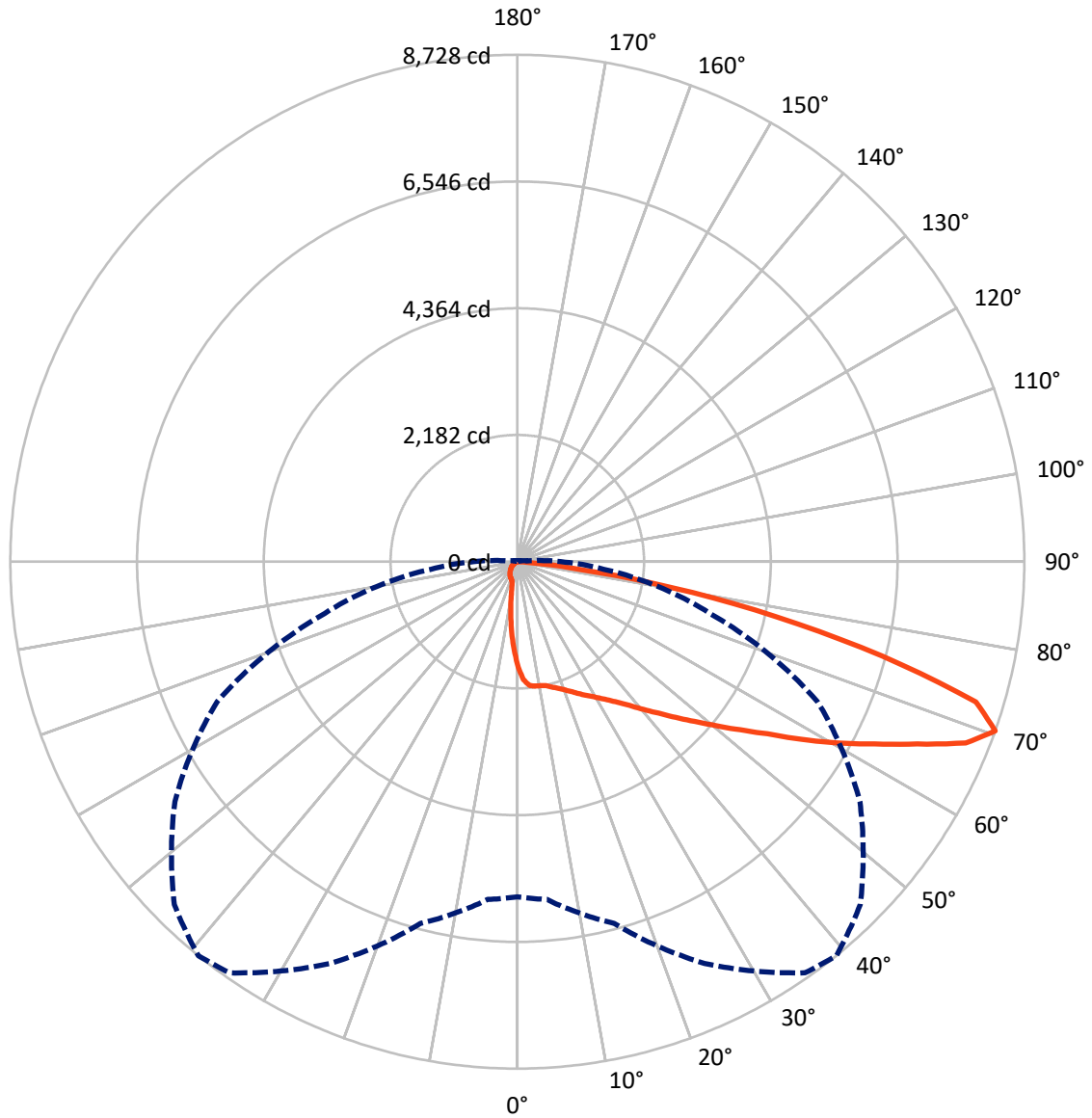
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	758.3	0.0	758.3
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	10870.7	0.0	10870.7
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	11629.0	0.0	11629.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.8	1.3
10°-20°	402.2	3.5
20°-30°	673.8	5.8
30°-40°	1045.0	9.0
40°-50°	1655.9	14.2
50°-60°	2427.4	20.9
60°-70°	3111.3	26.8
70°-80°	1955.0	16.8
80°-90°	203.7	1.8
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°	11629.0	100.0
0°-180°	11629.0	100.0

**Coefficient of Utilization**



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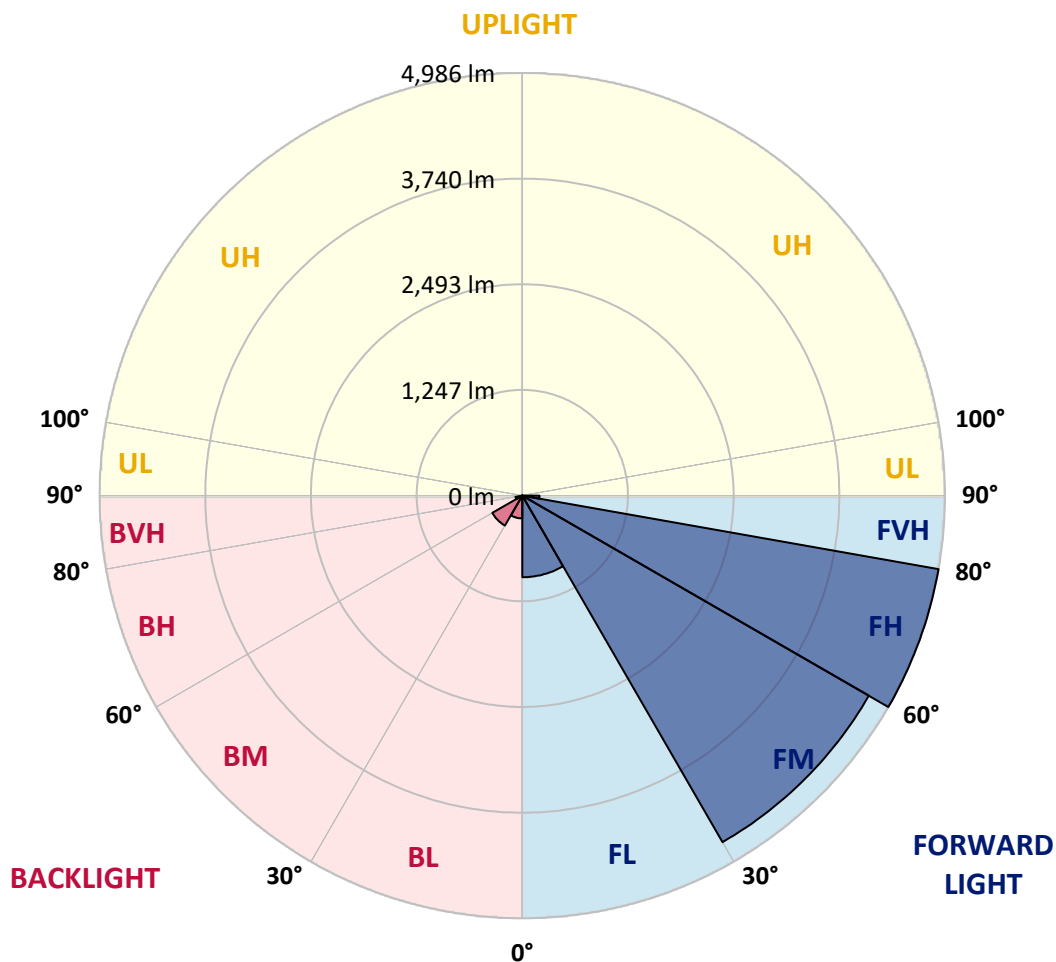
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	962.2	8.3			
FM (30°-60°)	4720.2	40.6			
FH (60°-80°)	4986.1	42.9			G2/5000
FVH (80°-90°)	202.2	1.7			G2/225
BL (0°-30°)	268.5	2.3	B1/500		
BM (30°-60°)	408.1	3.5	B1/1000		
BH (60°-80°)	80.2	0.7	B0/110		G0/110
BVH (80°-90°)	1.5	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5
2.5°	2096.6	2089.6	2080.2	2069.3	2038.0	2032.5	2013.8	1973.9	1926.3	1887.2	1833.3
5°	2195.9	2199.8	2192.7	2173.2	2150.5	2137.3	2113.8	2052.1	1990.3	1911.4	1823.1
7.5°	2218.5	2226.3	2217.8	2199.0	2177.1	2163.0	2144.3	2091.2	2019.3	1929.4	1808.3
10°	2216.2	2225.6	2220.1	2202.9	2184.9	2171.6	2151.3	2109.1	2051.3	1956.7	1813.0
12.5°	2212.3	2224.8	2224.0	2215.4	2200.6	2190.4	2177.9	2140.4	2086.5	1996.6	1838.7
15°	2201.3	2217.0	2231.0	2238.1	2238.8	2238.8	2223.2	2183.4	2131.8	2049.0	1872.4
17.5°	2206.0	2224.0	2259.2	2279.5	2293.6	2292.0	2275.6	2232.6	2175.6	2102.9	1907.5
20°	2234.9	2259.2	2308.4	2349.0	2363.1	2358.4	2336.5	2286.5	2221.7	2149.0	1941.9
22.5°	2306.1	2327.9	2389.7	2437.3	2447.5	2435.0	2403.7	2335.7	2277.1	2199.0	1983.3
25°	2412.3	2438.1	2495.2	2531.1	2531.1	2524.1	2480.3	2400.6	2339.7	2268.5	2037.2
27.5°	2541.3	2563.2	2619.4	2651.5	2632.7	2612.4	2568.6	2472.5	2413.9	2356.1	2102.1
30°	2671.8	2685.8	2745.2	2759.3	2739.8	2714.0	2667.1	2571.0	2519.4	2474.8	2195.9
32.5°	2795.2	2825.7	2874.9	2871.8	2845.3	2832.7	2789.8	2687.4	2658.5	2653.8	2327.2
35°	2918.7	2942.2	2985.9	2996.9	2973.4	2971.1	2939.8	2864.0	2864.8	2895.3	2531.9
37.5°	3025.0	3046.1	3097.7	3121.9	3126.6	3138.3	3125.8	3075.8	3146.9	3230.5	2803.1
40°	3114.1	3143.8	3209.4	3251.6	3300.1	3343.0	3345.4	3356.3	3499.3	3643.1	3157.1
42.5°	3183.6	3225.0	3320.4	3398.5	3509.5	3564.2	3607.9	3668.1	3908.8	4123.7	3574.3
45°	3274.3	3321.9	3440.7	3563.4	3736.9	3826.8	3887.7	4048.7	4390.2	4683.2	4002.6
47.5°	3424.3	3449.3	3570.4	3749.4	3977.6	4105.7	4224.5	4468.3	4906.7	5169.3	4358.9
50°	3617.3	3633.7	3725.2	3973.7	4269.1	4437.8	4654.3	4941.1	5442.8	5572.5	4560.5
52.5°	3830.7	3836.1	3904.9	4220.6	4595.7	4808.3	5050.5	5404.5	5879.6	5860.1	4694.2
55°	4078.4	4070.6	4129.2	4488.6	4982.5	5225.5	5507.6	5878.8	6258.6	6064.0	4770.7
57.5°	4362.0	4340.9	4398.0	4844.2	5478.0	5768.7	6055.4	6288.3	6552.4	6235.2	4807.5
60°	4659.0	4616.8	4684.8	5243.5	6061.7	6337.5	6575.9	6638.4	6861.9	6371.1	4744.2
62.5°	4895.8	4896.6	5023.1	5668.6	6661.8	6903.3	7029.9	7086.2	7128.4	6341.5	4411.3
65°	5265.4	5277.9	5480.3	6258.6	7356.6	7566.0	7652.7	7469.9	7140.1	5972.6	3911.1
67.5°	5646.7	5686.6	6057.0	7071.3	8159.1	8327.9	8216.1	7544.1	6821.3	5131.0	2965.6
70°	5771.0	5836.6	6446.9	7630.8	8640.5	8728.0	8349.8	7197.9	5702.2	3430.6	1492.6
72.5°	5288.1	5394.3	6222.7	7426.9	8333.4	8257.6	7470.6	6036.7	3625.1	1302.7	455.6
75°	3729.1	3776.0	5171.6	6160.9	6702.5	6487.6	5682.7	3891.6	1491.0	365.7	156.3
77.5°	1925.5	1902.8	3075.8	4087.8	4780.1	4557.4	3721.3	2014.6	565.0	152.4	96.9
80°	995.6	1012.0	1330.8	2141.9	2917.9	2685.1	1984.1	933.8	300.9	84.4	74.2
82.5°	558.0	523.6	765.0	935.4	1364.4	1069.8	761.1	661.1	131.3	50.8	70.3
85°	101.6	106.3	419.6	505.6	473.6	300.9	245.4	441.5	38.3	28.1	49.2
87.5°	1.6	1.6	81.3	145.3	92.2	42.2	77.4	63.3	7.8	10.9	8.6
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°	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5	1814.5
2.5°	1805.9	1776.2	1720.7	1666.0	1596.5	1539.5	1501.2	1461.3	1420.7	1423.8	1433.2
5°	1774.7	1723.1	1613.7	1498.0	1387.1	1287.0	1188.6	1100.3	1064.3	1031.5	1033.1
7.5°	1743.4	1670.7	1510.5	1329.2	1161.2	990.9	867.4	765.8	711.9	671.3	659.5
10°	1729.3	1633.2	1416.0	1166.7	928.4	742.4	583.7	500.9	436.8	416.5	422.0
12.5°	1735.6	1614.5	1330.8	1019.8	736.1	517.3	406.4	364.2	350.1	347.7	346.2
15°	1747.3	1601.2	1247.2	857.2	540.8	384.5	341.5	333.7	332.1	330.6	331.3
17.5°	1762.9	1589.5	1158.1	704.9	414.9	336.0	323.5	319.6	318.8	318.8	318.8
20°	1778.6	1576.2	1058.9	568.9	346.2	317.3	309.5	307.1	306.3	306.3	305.5
22.5°	1796.5	1564.5	958.1	447.0	318.8	304.0	297.0	295.4	294.6	293.8	293.8
25°	1822.3	1549.6	851.0	365.7	301.6	291.5	284.4	282.9	282.1	279.0	279.8
27.5°	1856.7	1538.7	740.8	315.7	286.0	275.9	271.2	268.8	267.3	264.9	265.7
30°	1903.6	1529.3	623.6	288.4	268.0	259.4	254.8	253.2	251.6	249.3	249.3
32.5°	1984.9	1533.2	500.1	266.5	251.6	241.5	236.8	235.2	233.7	231.3	231.3
35°	2106.8	1555.9	400.1	247.7	232.1	221.9	217.2	217.2	214.9	211.8	211.0
37.5°	2306.1	1613.7	321.2	229.7	213.3	204.0	198.5	196.9	194.6	189.9	189.1
40°	2541.3	1703.6	270.4	211.8	196.1	186.8	182.1	177.4	171.1	166.4	165.7
42.5°	2836.7	1795.8	234.4	193.8	179.7	171.1	165.7	157.9	148.5	142.2	141.4
45°	3144.5	1880.2	210.2	177.4	164.1	157.1	150.8	138.3	126.6	118.8	118.0
47.5°	3374.3	1895.8	190.7	161.8	150.8	143.8	135.2	119.6	103.9	96.9	94.6
50°	3482.9	1820.0	170.4	146.1	137.5	129.7	118.8	100.8	83.6	75.0	73.5
52.5°	3521.2	1688.7	153.9	132.1	124.3	114.9	101.6	81.3	65.6	57.0	56.3
55°	3505.6	1523.0	139.1	118.8	108.6	97.7	84.4	64.9	48.4	41.4	39.9
57.5°	3423.5	1312.1	124.3	105.5	93.0	82.1	67.2	48.4	32.8	26.6	25.8
60°	3202.4	1024.5	109.4	90.6	78.9	67.2	53.1	34.4	20.3	14.8	14.8
62.5°	2828.8	760.3	95.3	75.8	66.4	53.9	37.5	21.9	10.9	7.8	7.0
65°	2363.9	561.1	79.7	64.1	55.5	42.2	26.6	13.3	5.5	2.3	1.6
67.5°	1649.6	346.2	66.4	52.4	45.3	30.5	16.4	5.5	2.3	0.0	0.0
70°	749.4	164.9	50.8	39.9	34.4	21.9	8.6	3.1	1.6	0.0	0.0
72.5°	232.9	86.7	35.9	28.9	23.4	14.1	4.7	2.3	1.6	0.0	0.0
75°	107.8	55.5	22.7	15.6	13.3	7.0	3.1	1.6	0.8	0.0	0.0
77.5°	80.5	43.0	13.3	8.6	7.0	4.7	2.3	1.6	0.8	0.0	0.0
80°	70.3	21.9	7.8	5.5	3.9	3.1	1.6	0.8	0.0	0.0	0.0
82.5°	63.3	10.9	4.7	3.1	2.3	1.6	0.8	0.8	0.0	0.0	0.0
85°	34.4	6.3	3.1	2.3	1.6	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	6.3	3.1	2.3	1.6	1.6	0.8	0.8	0.8	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)