

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: P453320

Luminaire Tested: **GALN-SA4B-750-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453320  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4B-750-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16284 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

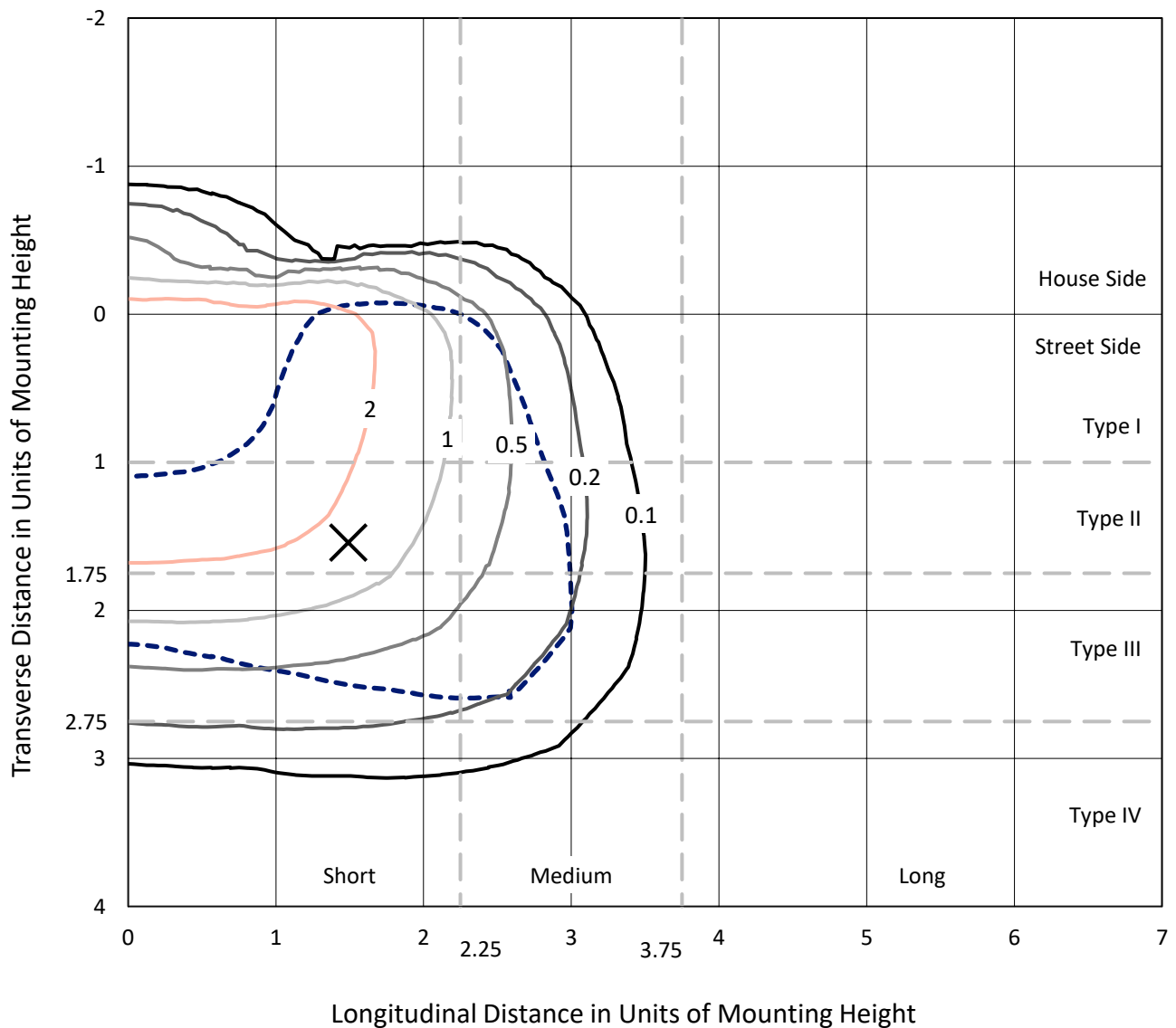
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

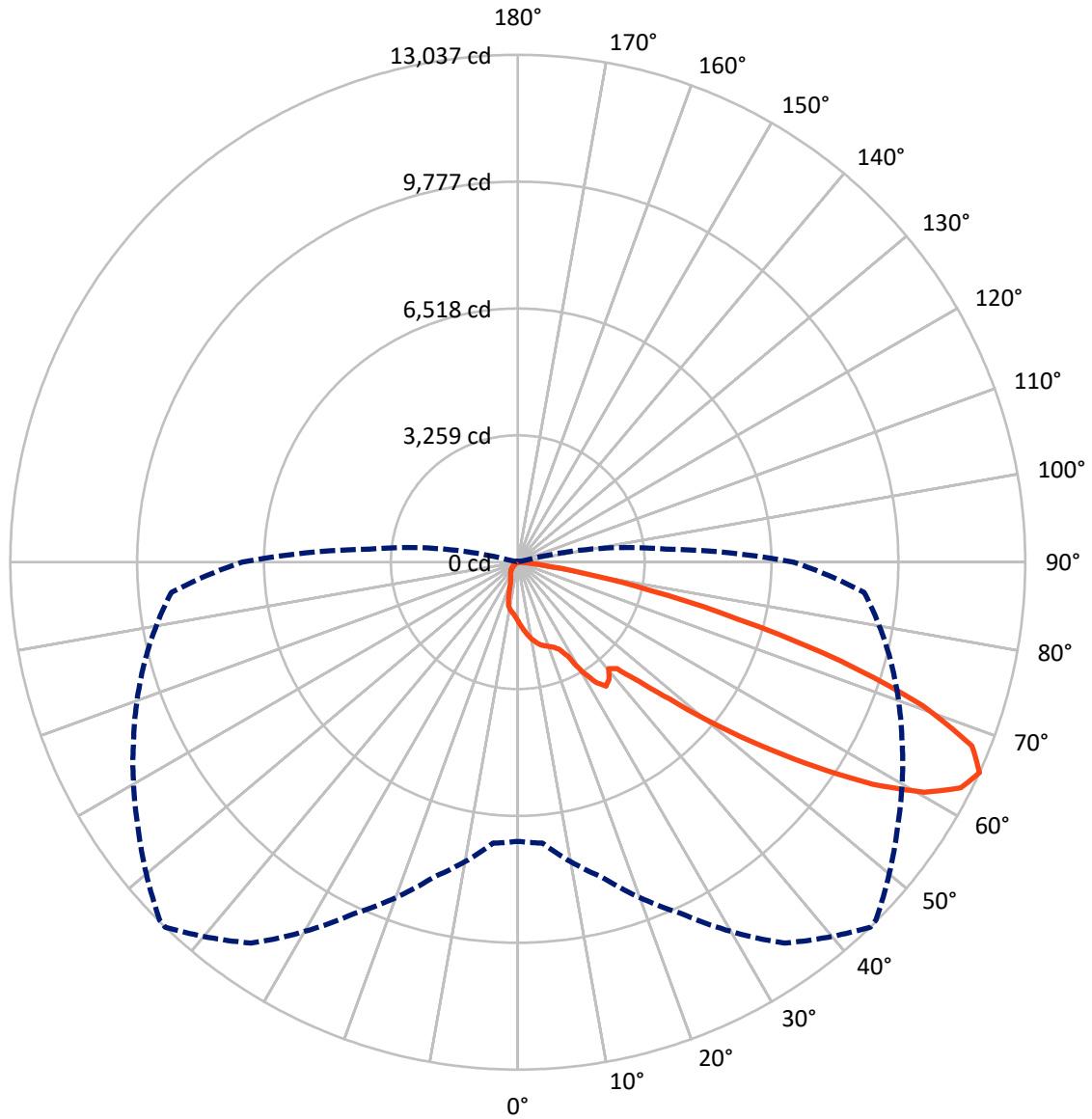
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1500.3	0.0	1500.3
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	14783.7	0.0	14783.7
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	16284.0	0.0	16284.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.7	0.9
10°-20°	453.7	2.8
20°-30°	769.3	4.7
30°-40°	1279.0	7.9
40°-50°	2233.2	13.7
50°-60°	4362.9	26.8
60°-70°	5062.0	31.1
70°-80°	1843.3	11.3
80°-90°	129.9	0.8
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°	16284.0	100.0
0°-180°	16284.0	100.0



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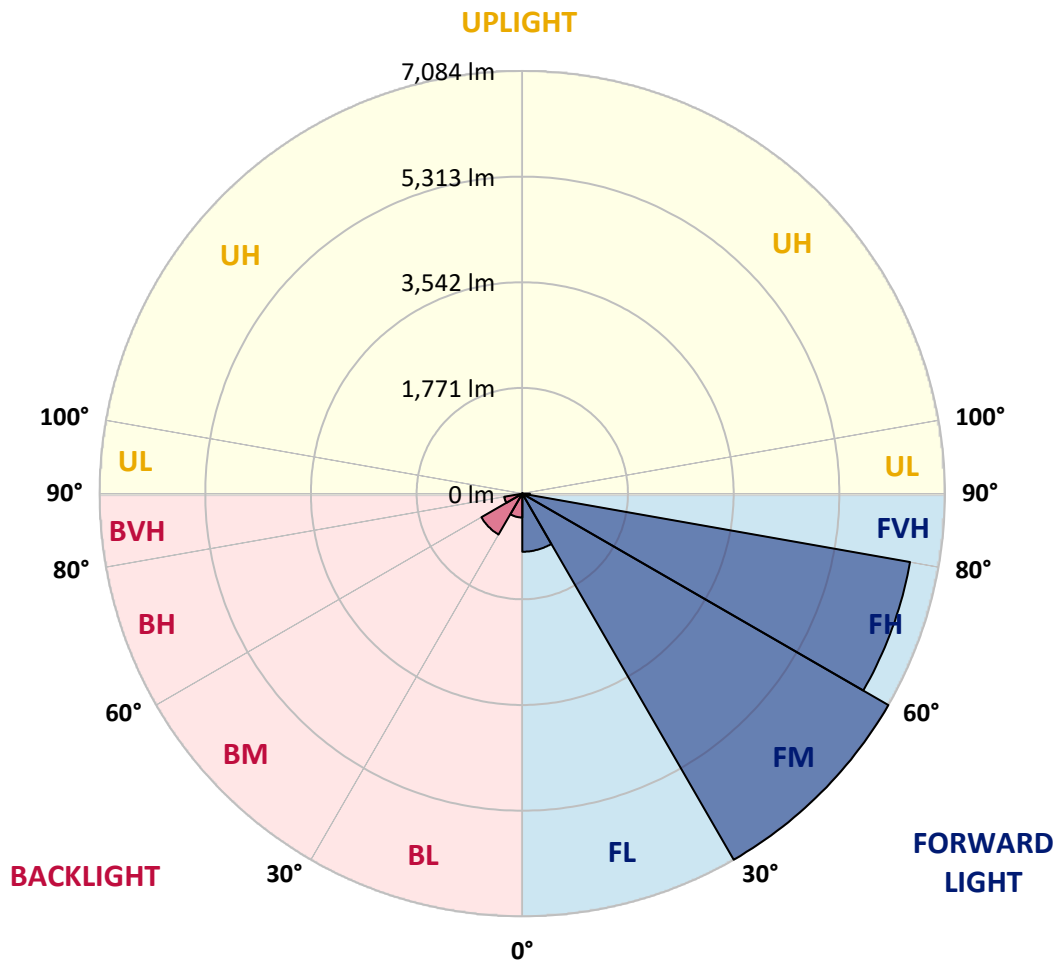
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	973.9	6.0			
FM (30°-60°)	7083.6	43.5			
FH (60°-80°)	6598.1	40.5			G3/7500
FVH (80°-90°)	128.1	0.8			G2/225
BL (0°-30°)	399.7	2.5	B1/500		
BM (30°-60°)	791.6	4.9	B1/1000		
BH (60°-80°)	307.2	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6
2.5°	1705.9	1698.5	1694.7	1674.8	1659.9	1641.2	1641.2	1617.6	1590.2	1560.3	1533.0
5°	1896.3	1883.9	1867.7	1850.3	1815.4	1765.7	1765.7	1715.9	1658.6	1607.6	1551.6
7.5°	2079.2	2068.0	2040.6	2007.1	1949.8	1897.6	1893.8	1821.7	1753.2	1676.1	1596.4
10°	2239.7	2231.0	2207.4	2142.7	2083.0	2014.5	2013.3	1932.4	1852.8	1758.2	1659.9
12.5°	2351.7	2353.0	2321.9	2259.6	2182.5	2117.8	2112.8	2033.2	1949.8	1847.8	1727.1
15°	2431.4	2431.4	2399.0	2329.3	2259.6	2202.4	2197.4	2127.7	2041.9	1931.2	1800.5
17.5°	2453.8	2461.2	2426.4	2364.2	2308.2	2258.4	2257.2	2198.7	2130.2	2023.2	1875.2
20°	2445.0	2452.5	2425.1	2376.6	2338.0	2309.4	2305.7	2282.0	2218.6	2117.8	1954.8
22.5°	2426.4	2433.8	2413.9	2385.3	2366.7	2375.4	2369.1	2389.1	2355.5	2233.5	2049.4
25°	2430.1	2437.6	2422.6	2406.5	2422.6	2476.2	2492.3	2578.2	2548.3	2380.3	2151.4
27.5°	2547.1	2562.0	2540.9	2548.3	2605.6	2730.0	2761.1	2909.2	2777.3	2567.0	2310.7
30°	2807.1	2797.2	2757.4	2793.4	2992.5	3256.3	3247.6	3224.0	3017.4	2782.2	2499.8
32.5°	3043.6	3034.8	3032.4	3187.9	3548.7	3676.9	3670.7	3441.7	3232.7	3028.6	2686.4
35°	3139.4	3105.8	3098.3	3475.3	4078.8	3909.6	3871.0	3531.3	3494.0	3297.4	2876.8
37.5°	3428.0	3404.4	3288.7	3522.6	3867.3	3811.3	3781.4	3685.6	3772.7	3535.1	3092.1
40°	4022.8	3956.9	3852.3	3623.4	3567.4	3591.0	3620.9	3883.5	4102.4	3859.8	3379.5
42.5°	4761.9	4747.0	4552.9	4126.1	3706.8	3739.1	3777.7	4296.6	4576.5	4348.8	3848.6
45°	5649.1	5670.3	5390.3	4886.4	4336.4	4363.8	4419.7	4906.3	5218.6	5109.1	4586.5
47.5°	6455.4	6439.2	6344.7	5820.8	5313.2	5252.2	5343.0	5688.9	6107.0	6124.4	5502.3
50°	7266.7	7352.6	7212.0	7006.6	6629.6	6501.5	6467.9	6637.1	7274.2	7190.8	6602.2
52.5°	8432.6	8477.4	8213.6	8161.3	8247.2	7831.6	7798.0	7839.1	8409.0	8122.8	7426.0
55°	9165.5	9139.4	9041.1	9449.2	9788.9	9270.0	9227.7	9062.2	9350.9	8781.0	8218.6
57.5°	9396.9	9434.3	9663.2	10401.1	11204.9	10764.4	10687.3	10216.9	10030.3	9394.4	8947.7
60°	9293.7	9362.1	9856.1	10953.6	12068.4	12002.5	11936.5	11146.4	10518.0	9907.1	9459.2
62.5°	8558.3	8654.1	9444.2	10855.3	12360.9	12772.7	12690.6	11726.3	10842.8	10156.0	9548.7
65°	7172.1	7243.1	8377.9	9963.1	11945.3	13036.5	13006.6	11907.9	10893.8	9928.3	8935.3
67.5°	5112.8	5354.2	6405.6	8396.5	10715.9	12586.1	12637.1	11690.2	10414.8	8944.0	7399.8
70°	3214.0	3378.3	4132.3	6011.2	8590.6	11041.9	11209.9	10693.5	9038.6	6971.8	4953.5
72.5°	1533.0	1654.9	2192.5	3805.1	6063.5	8687.7	8820.8	8778.5	6989.2	4392.4	2555.8
75°	683.1	729.2	1046.5	1942.3	3914.6	5839.5	6184.2	6241.4	4367.5	2148.9	994.2
77.5°	348.4	349.6	490.3	940.7	1954.8	3484.0	3552.5	3752.8	2367.9	946.9	345.9
80°	185.4	197.8	260.1	444.2	1014.1	1715.9	1707.2	1876.4	1050.2	464.1	115.7
82.5°	83.4	92.1	146.8	232.7	495.2	650.8	701.8	767.7	450.4	296.1	51.0
85°	24.9	29.9	72.2	117.0	179.2	187.9	210.3	271.3	255.1	210.3	26.1
87.5°	3.7	3.7	29.9	32.4	26.1	33.6	34.8	38.6	82.1	77.1	13.7
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°	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6
2.5°	1518.0	1509.3	1478.2	1452.1	1429.7	1416.0	1399.8	1389.9	1384.9	1381.2	1382.4
5°	1524.3	1503.1	1449.6	1407.3	1374.9	1340.1	1316.5	1302.8	1296.6	1286.6	1286.6
7.5°	1559.1	1525.5	1450.9	1386.1	1330.2	1282.9	1238.1	1221.9	1210.7	1208.2	1205.7
10°	1608.9	1566.6	1464.5	1374.9	1295.3	1230.6	1167.2	1111.2	1067.6	1041.5	1037.7
12.5°	1671.1	1610.1	1485.7	1367.5	1265.5	1151.0	983.0	869.8	793.9	770.2	774.0
15°	1728.3	1662.4	1506.8	1361.3	1210.7	954.4	764.0	634.6	596.0	592.3	593.5
17.5°	1796.8	1718.4	1531.7	1352.6	1060.1	729.2	567.4	532.6	540.0	552.5	551.2
20°	1867.7	1778.1	1561.6	1300.3	846.1	548.7	501.5	505.2	516.4	527.6	530.1
22.5°	1943.6	1846.5	1596.4	1174.6	645.8	477.8	475.3	480.3	491.5	503.9	506.4
25°	2048.1	1932.4	1622.6	1010.4	489.0	441.7	446.7	455.4	465.4	479.1	481.5
27.5°	2182.5	2048.1	1636.3	796.4	423.1	409.4	410.6	423.1	435.5	447.9	447.9
30°	2356.7	2186.2	1608.9	602.2	390.7	378.3	373.3	380.8	396.9	409.4	410.6
32.5°	2512.2	2316.9	1536.7	460.4	367.1	349.6	337.2	338.4	344.7	352.1	353.4
35°	2667.8	2443.8	1413.5	387.0	342.2	322.3	303.6	293.7	288.7	284.9	288.7
37.5°	2866.9	2601.8	1249.3	352.1	321.0	296.1	270.0	248.9	231.4	220.2	222.7
40°	3123.2	2820.8	1055.2	329.7	301.1	271.3	236.4	209.0	179.2	169.2	164.2
42.5°	3546.2	3153.1	851.1	311.1	281.2	245.1	201.6	164.2	136.9	126.9	129.4
45°	4214.4	3572.4	655.7	291.2	261.3	216.5	169.2	129.4	107.0	102.0	104.5
47.5°	5100.4	4114.9	505.2	268.8	236.4	185.4	133.1	102.0	88.3	87.1	85.9
50°	5934.1	4620.1	421.8	243.9	206.6	154.3	109.5	85.9	77.1	75.9	75.9
52.5°	6688.1	4982.2	343.4	215.3	174.2	126.9	92.1	75.9	68.4	64.7	64.7
55°	7358.8	5218.6	278.7	180.4	136.9	100.8	79.6	68.4	59.7	54.7	53.5
57.5°	7865.2	5247.2	209.0	144.3	102.0	78.4	68.4	59.7	49.8	43.6	41.1
60°	8081.7	4999.6	154.3	109.5	75.9	62.2	54.7	48.5	37.3	31.1	29.9
62.5°	7864.0	4518.0	114.5	83.4	58.5	46.0	38.6	36.1	26.1	18.7	17.4
65°	7083.8	3822.5	90.8	63.5	43.6	33.6	24.9	23.6	16.2	8.7	7.5
67.5°	5675.2	2993.8	72.2	47.3	31.1	22.4	16.2	14.9	8.7	2.5	2.5
70°	3690.6	1913.7	58.5	34.8	19.9	14.9	10.0	7.5	5.0	1.2	0.0
72.5°	1825.4	894.7	47.3	27.4	13.7	7.5	3.7	2.5	3.7	0.0	0.0
75°	708.0	318.5	34.8	18.7	7.5	3.7	2.5	0.0	1.2	0.0	0.0
77.5°	235.2	105.8	21.2	10.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0
80°	87.1	41.1	11.2	6.2	2.5	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	34.8	16.2	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.4	10.0	5.0	3.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.4	7.5	5.0	3.7	2.5	1.2	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)