

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: P458784

Luminaire Tested: **GALN-SA3B-735-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458784  
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-SA3B-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA 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: 13016 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

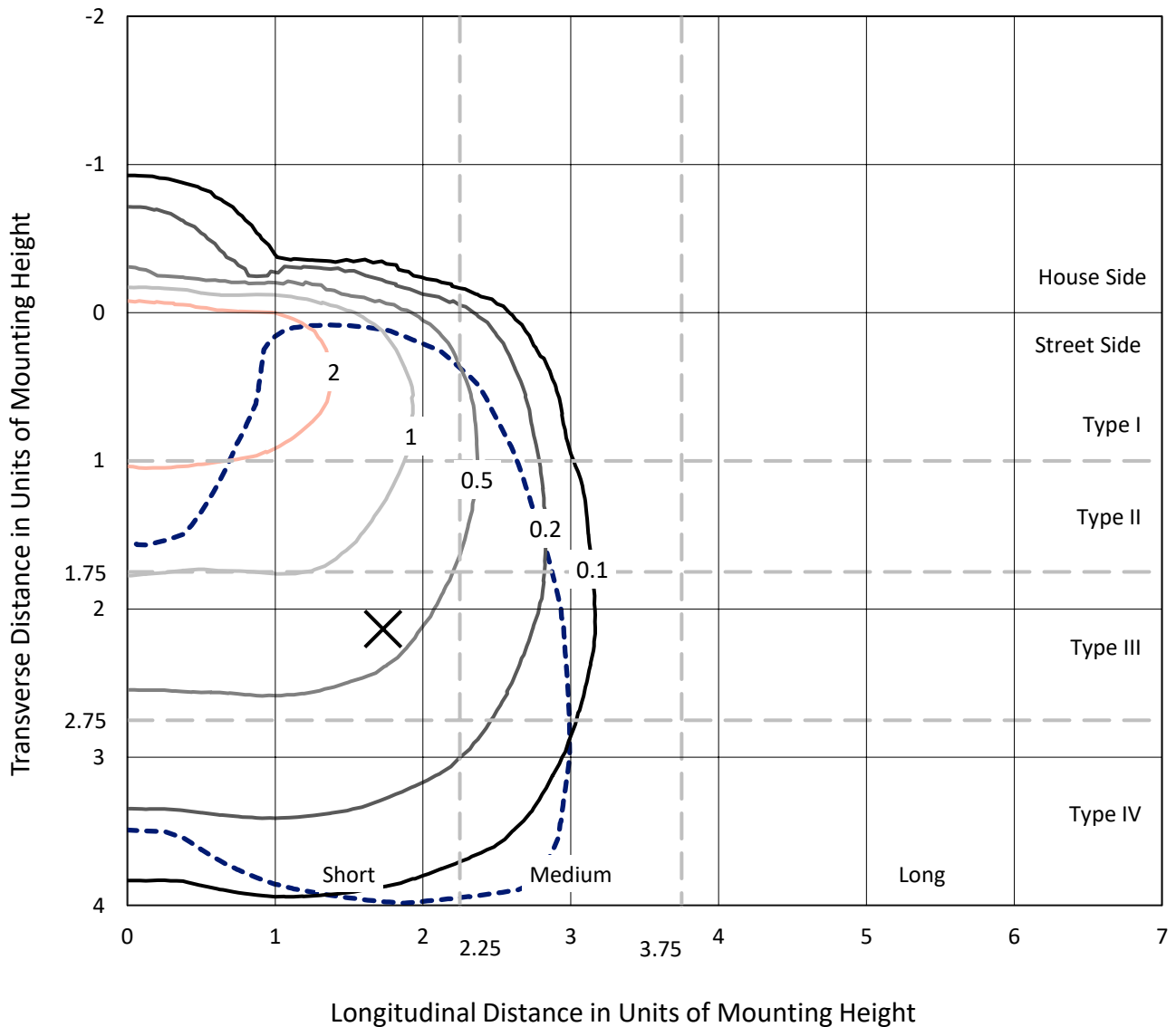
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

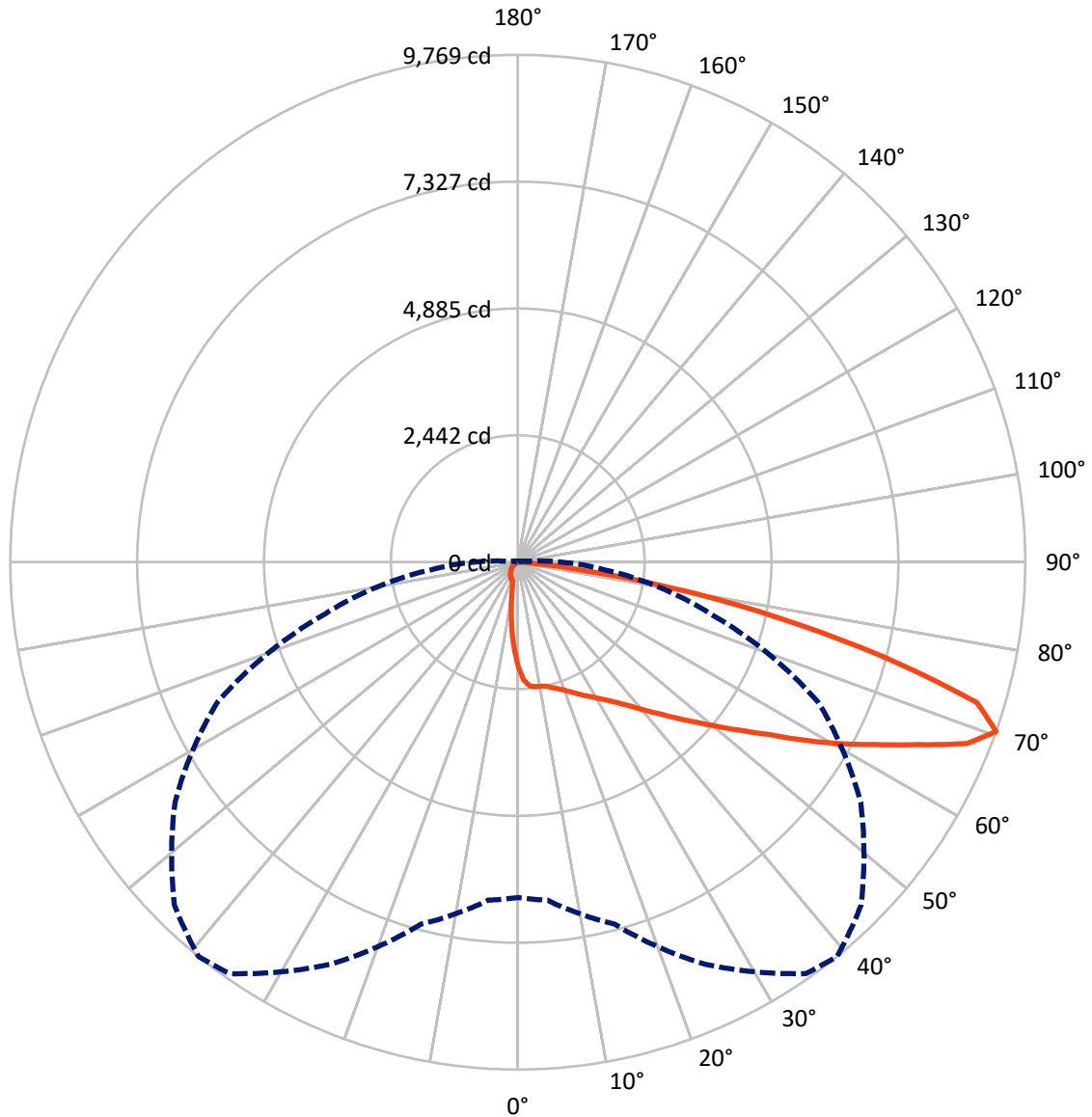
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	848.7	0.0	848.7
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	12167.3	0.0	12167.3
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	13016.0	0.0	13016.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.2	1.3
10°-20°	450.2	3.5
20°-30°	754.1	5.8
30°-40°	1169.6	9.0
40°-50°	1853.4	14.2
50°-60°	2716.9	20.9
60°-70°	3482.4	26.8
70°-80°	2188.2	16.8
80°-90°	228.0	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°	13016.0	100.0
0°-180°	13016.0	100.0

**Coefficient of Utilization**



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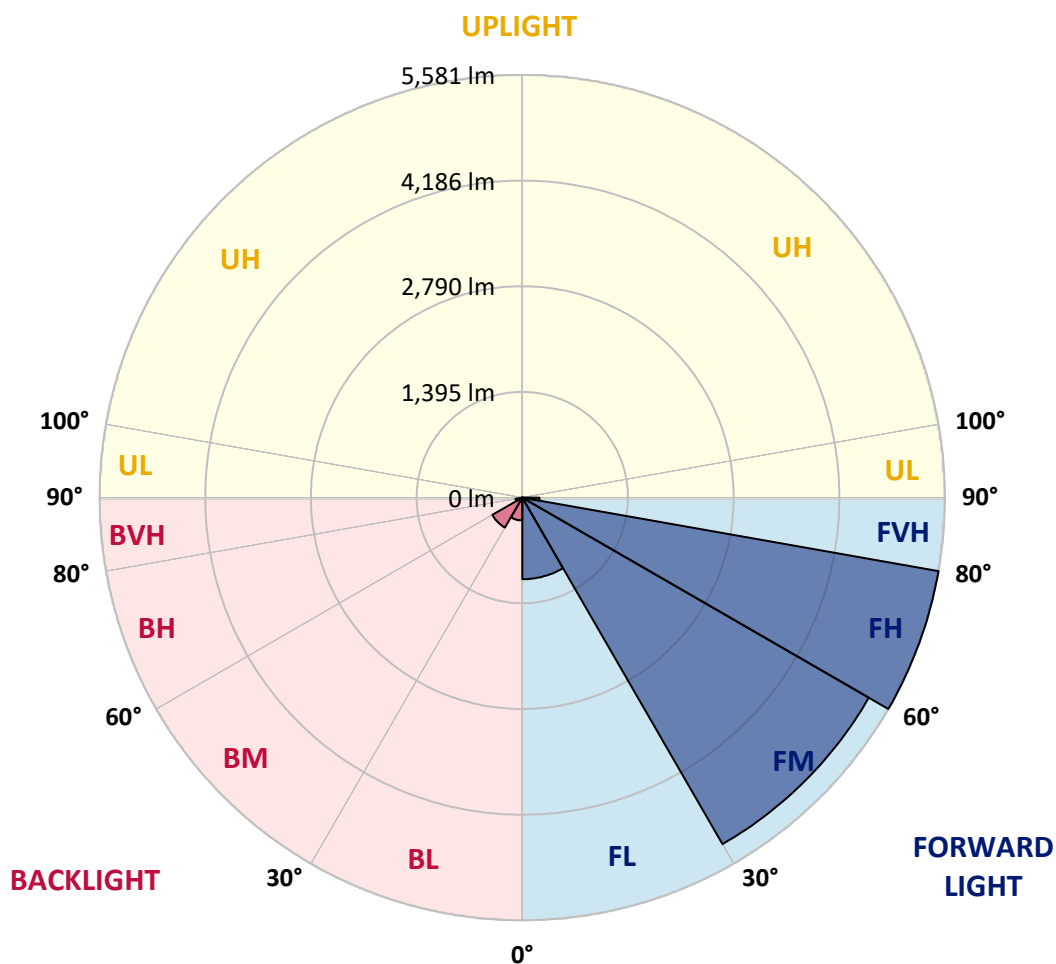
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1077.0	8.3			
FM (30°-60°)	5283.2	40.6			
FH (60°-80°)	5580.8	42.9			G3/7500
FVH (80°-90°)	226.3	1.7			G3/500
BL (0°-30°)	300.5	2.3	B1/500		
BM (30°-60°)	456.7	3.5	B1/1000		
BH (60°-80°)	89.8	0.7	B0/110		G0/110
BVH (80°-90°)	1.7	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9
2.5°	2346.7	2338.8	2328.3	2316.1	2281.1	2275.0	2254.0	2209.4	2156.0	2112.3	2051.9
5°	2457.8	2462.1	2454.3	2432.4	2407.0	2392.2	2365.9	2296.8	2227.7	2139.4	2040.6
7.5°	2483.1	2491.9	2482.3	2461.3	2436.8	2421.0	2400.0	2340.6	2260.1	2159.5	2023.9
10°	2480.5	2491.0	2484.9	2465.6	2445.5	2430.7	2407.9	2360.7	2296.0	2190.1	2029.2
12.5°	2476.1	2490.1	2489.3	2479.6	2463.0	2451.7	2437.7	2395.7	2335.3	2234.7	2058.1
15°	2463.9	2481.4	2497.1	2505.0	2505.9	2505.9	2488.4	2443.8	2386.1	2293.3	2095.7
17.5°	2469.1	2489.3	2528.6	2551.4	2567.1	2565.4	2547.0	2498.9	2435.0	2353.7	2135.0
20°	2501.5	2528.6	2583.7	2629.2	2644.9	2639.7	2615.2	2559.2	2486.6	2405.3	2173.5
22.5°	2581.1	2605.6	2674.7	2728.0	2739.4	2725.4	2690.4	2614.3	2548.7	2461.3	2219.9
25°	2700.1	2728.9	2792.8	2833.0	2833.0	2825.1	2776.1	2686.9	2618.7	2539.1	2280.2
27.5°	2844.4	2868.9	2931.8	2967.7	2946.7	2924.0	2875.0	2767.4	2701.8	2637.1	2352.8
30°	2990.4	3006.2	3072.7	3088.4	3066.5	3037.7	2985.2	2877.6	2819.9	2770.0	2457.8
32.5°	3128.6	3162.7	3217.8	3214.3	3184.6	3170.6	3122.5	3007.9	2975.6	2970.3	2604.7
35°	3266.8	3293.1	3342.0	3354.3	3328.1	3325.4	3290.4	3205.6	3206.5	3240.6	2833.9
37.5°	3385.8	3409.4	3467.1	3494.2	3499.5	3512.6	3498.6	3442.6	3522.2	3615.8	3137.4
40°	3485.5	3518.7	3592.2	3639.4	3693.7	3741.8	3744.4	3756.6	3916.7	4077.6	3533.6
42.5°	3563.3	3609.7	3716.4	3803.9	3928.1	3989.3	4038.3	4105.6	4375.0	4615.5	4000.7
45°	3664.8	3718.1	3851.1	3988.4	4182.6	4283.2	4351.4	4531.6	4913.8	5241.8	4480.0
47.5°	3832.7	3860.7	3996.3	4196.6	4452.0	4595.4	4728.4	5001.3	5491.9	5785.8	4878.8
50°	4048.8	4067.1	4169.5	4447.6	4778.2	4967.1	5209.4	5530.4	6092.0	6237.1	5104.5
52.5°	4287.5	4293.7	4370.6	4724.0	5143.8	5381.7	5652.9	6049.1	6580.9	6559.0	5254.0
55°	4564.8	4556.1	4621.7	5024.0	5576.8	5848.8	6164.5	6580.0	7005.1	6787.3	5339.8
57.5°	4882.3	4858.7	4922.5	5422.0	6131.3	6456.7	6777.7	7038.3	7334.0	6978.9	5380.9
60°	5214.7	5167.4	5243.5	5868.9	6784.7	7093.4	7360.2	7430.2	7680.3	7131.0	5310.0
62.5°	5479.7	5480.6	5622.3	6344.7	7456.4	7726.7	7868.4	7931.3	7978.6	7097.8	4937.4
65°	5893.4	5907.4	6133.9	7005.1	8234.0	8468.4	8565.5	8360.8	7991.7	6685.0	4377.6
67.5°	6320.2	6364.8	6779.4	7914.7	9132.2	9321.2	9196.1	8443.9	7634.8	5743.0	3319.3
70°	6459.3	6532.8	7215.9	8541.0	9671.0	9769.0	9345.7	8056.4	6382.3	3839.7	1670.6
72.5°	5918.8	6037.7	6964.9	8312.7	9327.3	9242.5	8361.7	6756.7	4057.5	1458.0	509.9
75°	4173.8	4226.3	5788.4	6895.8	7501.9	7261.4	6360.5	4355.8	1668.8	409.3	174.9
77.5°	2155.1	2129.8	3442.6	4575.3	5350.2	5101.0	4165.1	2254.9	632.4	170.6	108.5
80°	1114.3	1132.7	1489.5	2397.4	3266.0	3005.3	2220.7	1045.2	336.7	94.5	83.1
82.5°	624.5	586.0	856.3	1047.0	1527.1	1197.4	851.9	740.0	146.9	56.9	78.7
85°	113.7	119.0	469.7	565.9	530.0	336.7	274.6	494.2	42.9	31.5	55.1
87.5°	1.7	1.7	91.0	162.7	103.2	47.2	86.6	70.8	8.7	12.2	9.6
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°	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9	2030.9
2.5°	2021.3	1988.1	1926.0	1864.8	1786.9	1723.1	1680.2	1635.6	1590.1	1593.6	1604.1
5°	1986.3	1928.6	1806.2	1676.7	1552.5	1440.6	1330.3	1231.5	1191.3	1154.5	1156.3
7.5°	1951.3	1870.0	1690.7	1487.8	1299.7	1109.1	970.9	857.2	796.8	751.3	738.2
10°	1935.6	1828.0	1584.9	1305.9	1039.1	830.9	653.4	560.7	488.9	466.2	472.3
12.5°	1942.6	1807.0	1489.5	1141.4	823.9	579.0	454.8	407.6	391.8	389.2	387.5
15°	1955.7	1792.2	1395.9	959.5	605.3	430.3	382.2	373.5	371.7	370.0	370.9
17.5°	1973.2	1779.0	1296.2	788.9	464.4	376.1	362.1	357.7	356.9	356.9	356.9
20°	1990.7	1764.2	1185.2	636.7	387.5	355.1	346.4	343.7	342.9	342.9	342.0
22.5°	2010.8	1751.1	1072.3	500.3	356.9	340.2	332.4	330.6	329.7	328.9	328.9
25°	2039.7	1734.4	952.5	409.3	337.6	326.2	318.4	316.6	315.7	312.3	313.1
27.5°	2078.2	1722.2	829.2	353.4	320.1	308.8	303.5	300.9	299.1	296.5	297.4
30°	2130.7	1711.7	698.0	322.7	300.0	290.4	285.1	283.4	281.6	279.0	279.0
32.5°	2221.6	1716.1	559.8	298.3	281.6	270.3	265.0	263.3	261.5	258.9	258.9
35°	2358.1	1741.4	447.8	277.3	259.8	248.4	243.2	243.2	240.5	237.0	236.2
37.5°	2581.1	1806.2	359.5	257.1	238.8	228.3	222.2	220.4	217.8	212.5	211.7
40°	2844.4	1906.7	302.6	237.0	219.5	209.0	203.8	198.5	191.5	186.3	185.4
42.5°	3175.0	2010.0	262.4	216.9	201.2	191.5	185.4	176.7	166.2	159.2	158.3
45°	3519.6	2104.4	235.3	198.5	183.7	175.8	168.8	154.8	141.7	132.9	132.1
47.5°	3776.7	2121.9	213.4	181.1	168.8	160.9	151.3	133.8	116.3	108.5	105.8
50°	3898.3	2037.1	190.7	163.6	153.9	145.2	132.9	112.8	93.6	84.0	82.2
52.5°	3941.2	1890.1	172.3	147.8	139.1	128.6	113.7	91.0	73.5	63.8	63.0
55°	3923.7	1704.7	155.7	132.9	121.6	109.3	94.5	72.6	54.2	46.4	44.6
57.5°	3831.9	1468.5	139.1	118.1	104.1	91.8	75.2	54.2	36.7	29.7	28.9
60°	3584.3	1146.7	122.5	101.5	88.3	75.2	59.5	38.5	22.7	16.6	16.6
62.5°	3166.2	851.0	106.7	84.8	74.3	60.4	42.0	24.5	12.2	8.7	7.9
65°	2645.8	628.0	89.2	71.7	62.1	47.2	29.7	14.9	6.1	2.6	1.7
67.5°	1846.4	387.5	74.3	58.6	50.7	34.1	18.4	6.1	2.6	0.0	0.0
70°	838.8	184.6	56.9	44.6	38.5	24.5	9.6	3.5	1.7	0.0	0.0
72.5°	260.6	97.1	40.2	32.4	26.2	15.7	5.2	2.6	1.7	0.0	0.0
75°	120.7	62.1	25.4	17.5	14.9	7.9	3.5	1.7	0.9	0.0	0.0
77.5°	90.1	48.1	14.9	9.6	7.9	5.2	2.6	1.7	0.9	0.0	0.0
80°	78.7	24.5	8.7	6.1	4.4	3.5	1.7	0.9	0.0	0.0	0.0
82.5°	70.8	12.2	5.2	3.5	2.6	1.7	0.9	0.9	0.0	0.0	0.0
85°	38.5	7.0	3.5	2.6	1.7	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	7.0	3.5	2.6	1.7	1.7	0.9	0.9	0.9	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)