

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: P458940

Luminaire Tested: **GALN-SA4C-735-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4C-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19021 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

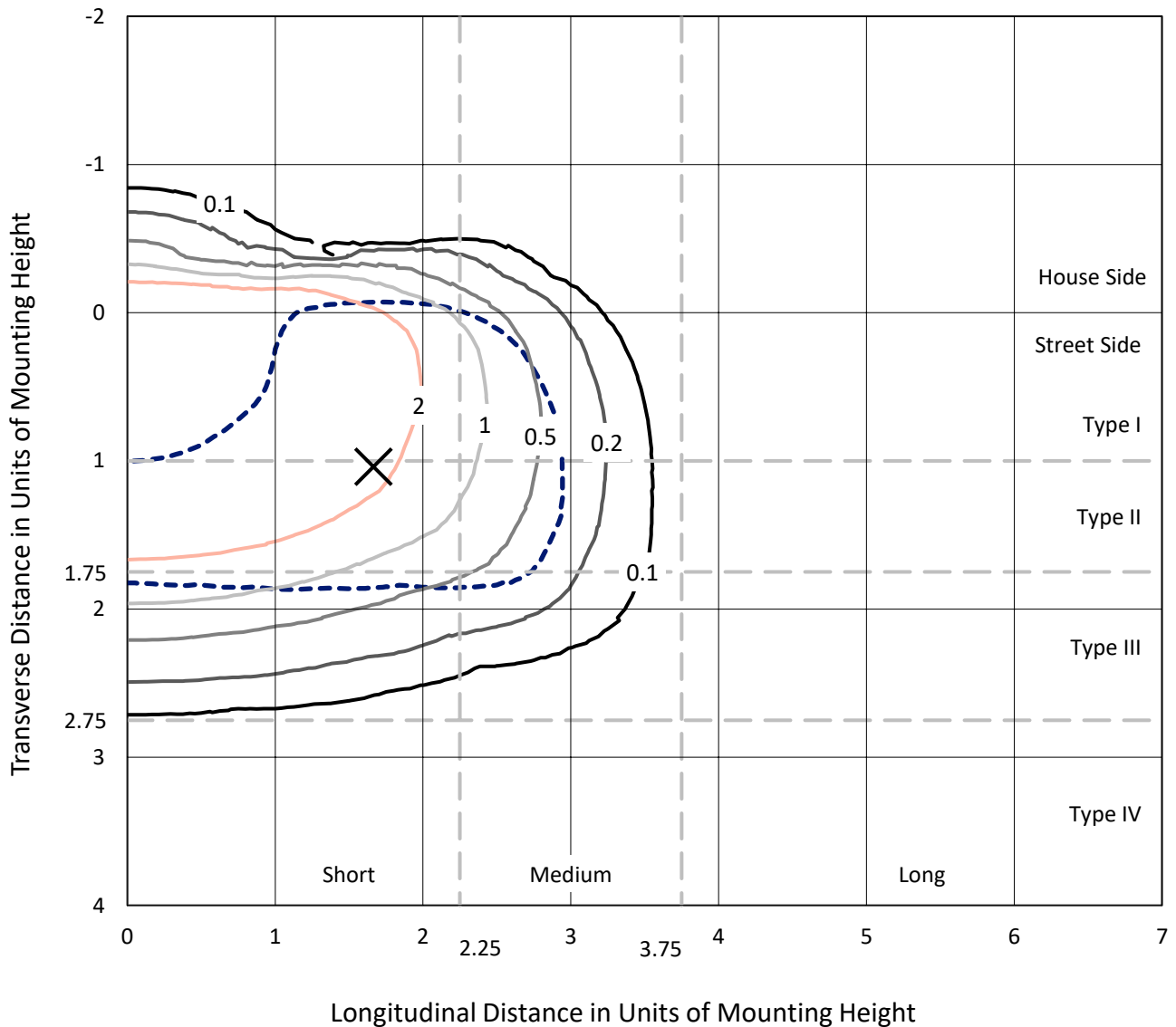
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458940  
 CATALOG NUMBER: GALN-SA4C-735-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

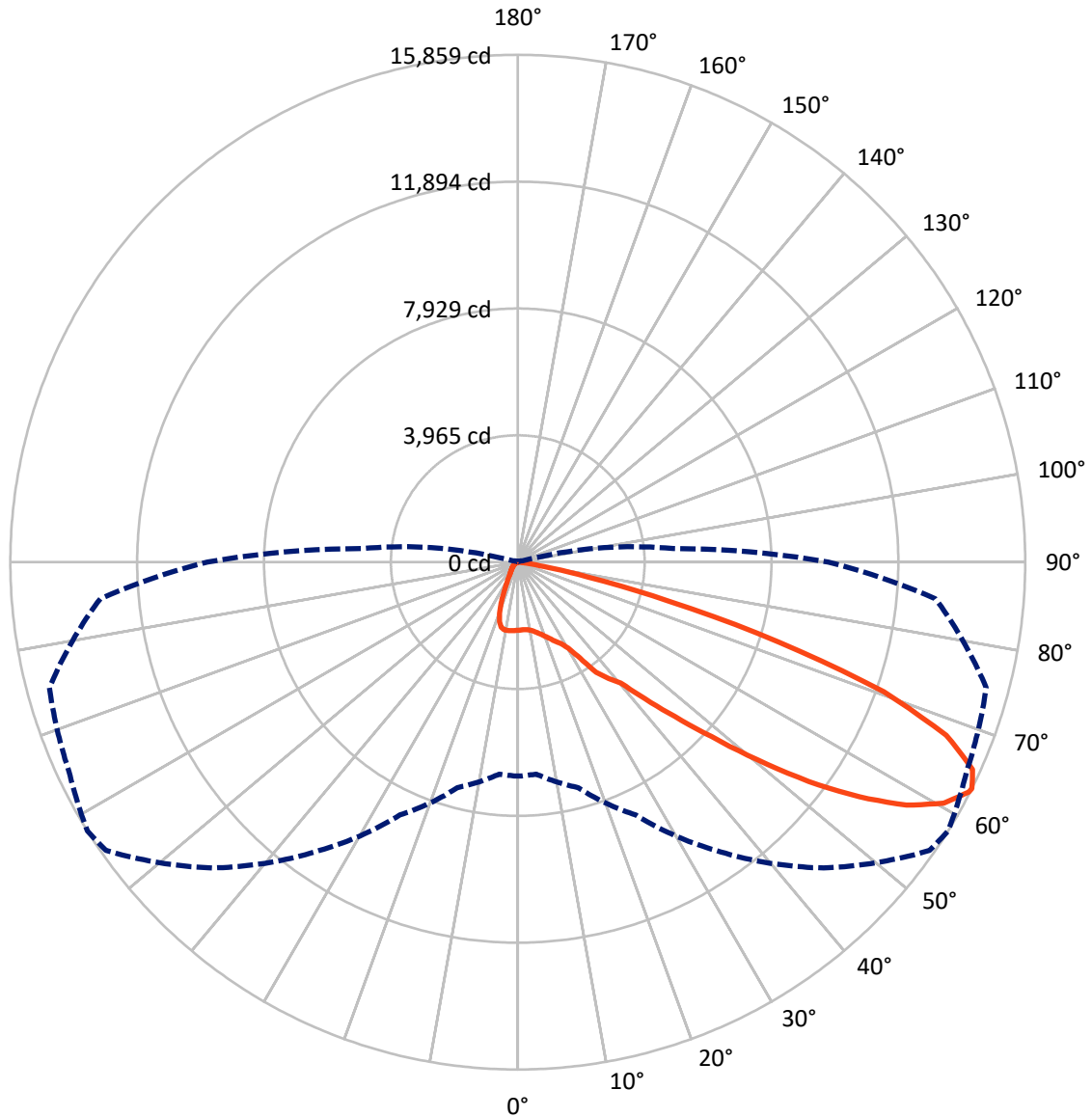
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P458940  
CATALOG NUMBER: GALN-SA4C-735-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P458940

CATALOG NUMBER: GALN-SA4C-735-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1969.5	0.0	1969.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	17051.5	0.0	17051.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	19021.0	0.0	19021.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.3	1.0
10°-20°	543.0	2.9
20°-30°	942.3	5.0
30°-40°	1731.6	9.1
40°-50°	3259.7	17.1
50°-60°	5575.5	29.3
60°-70°	5338.6	28.1
70°-80°	1361.4	7.2
80°-90°	69.6	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°	19021.0	100.0
0°-180°	19021.0	100.0



REPORT NUMBER: P458940

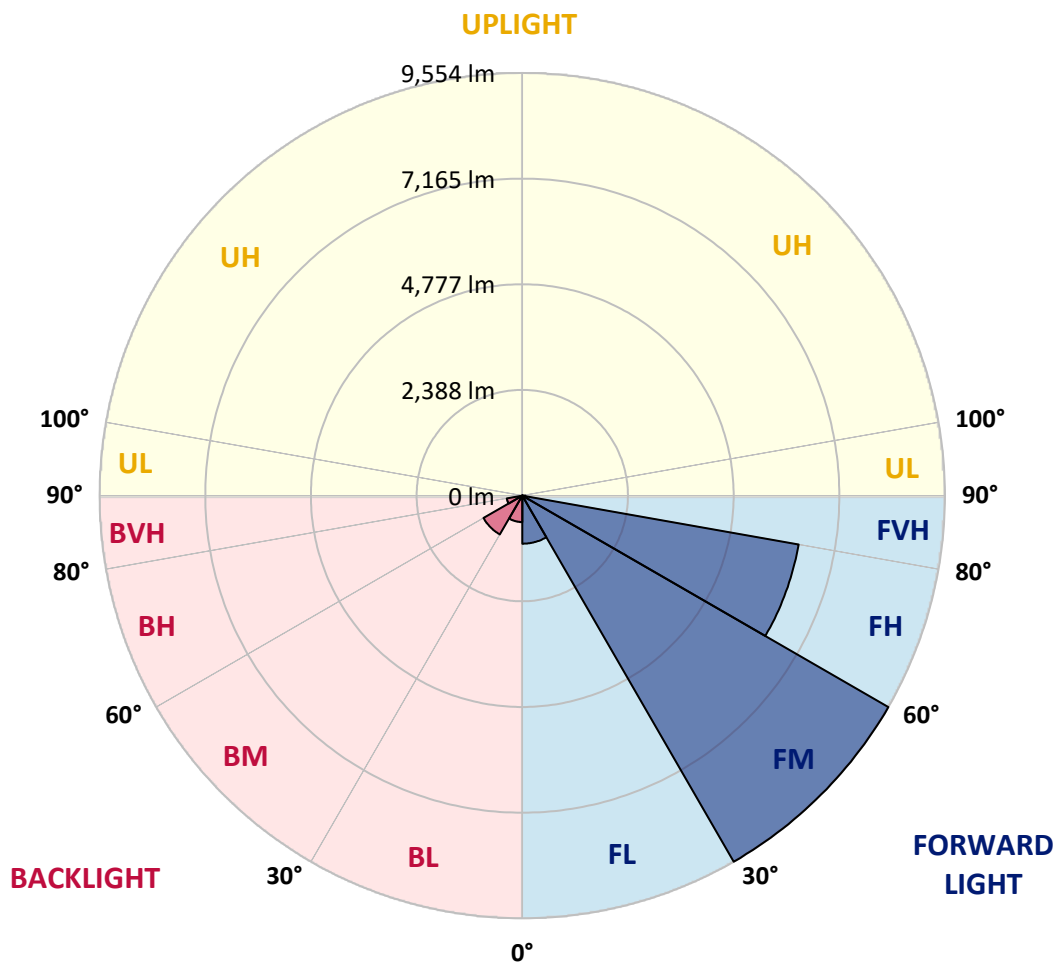
CATALOG NUMBER: GALN-SA4C-735-U-T3-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1087.3	5.7			
FM	(30°-60°)	9553.9	50.2			
FH	(60°-80°)	6343.4	33.3			G3/7500
FVH	(80°-90°)	66.9	0.4			G1/100
BL	(0°-30°)	597.3	3.1	B2/1000		
BM	(30°-60°)	1013.0	5.3	B2/2500		
BH	(60°-80°)	356.5	1.9	B1/500		G1/500
BVH	(80°-90°)	2.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





REPORT NUMBER: P458940

CATALOG NUMBER: GALN-SA4C-735-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5
2.5°	2076.5	2083.6	2090.8	2093.7	2103.7	2113.7	2120.9	2119.5	2130.9	2136.6	2136.6
5°	1993.4	1993.4	2012.0	2029.2	2057.9	2086.5	2113.7	2119.5	2140.9	2161.0	2168.1
7.5°	1923.3	1927.6	1941.9	1973.4	2012.0	2062.2	2116.6	2129.5	2166.7	2211.1	2229.7
10°	1890.3	1893.2	1911.8	1944.7	1993.4	2062.2	2138.1	2162.4	2219.7	2289.9	2315.6
12.5°	1883.2	1887.5	1906.1	1943.3	1999.2	2082.2	2185.3	2211.1	2294.2	2384.4	2423.0
15°	1896.0	1898.9	1917.5	1957.6	2019.2	2118.0	2248.3	2284.1	2382.9	2487.5	2537.6
17.5°	1941.9	1939.0	1951.9	1984.8	2053.6	2162.4	2324.2	2367.2	2483.2	2626.4	2659.3
20°	2136.6	2118.0	2106.6	2077.9	2105.1	2225.4	2415.9	2478.9	2622.1	2768.2	2791.1
22.5°	2556.2	2514.7	2433.1	2321.4	2235.4	2311.3	2526.2	2599.2	2783.9	2927.1	2927.1
25°	3090.4	3037.4	2955.8	2712.3	2501.8	2453.1	2650.7	2742.4	2960.1	3104.7	3057.4
27.5°	3759.2	3717.6	3558.7	3275.1	2952.9	2700.9	2795.4	2879.9	3116.2	3290.9	3192.1
30°	4303.3	4283.3	4153.0	3899.5	3544.4	3176.3	3064.6	3120.5	3323.8	3525.7	3424.1
32.5°	4763.0	4763.0	4629.9	4393.6	4061.3	3734.8	3521.4	3561.5	3756.3	3989.7	3800.7
35°	5268.6	5251.4	5144.0	4919.1	4546.8	4258.9	4171.6	4226.0	4402.2	4575.4	4110.0
37.5°	5799.8	5794.1	5682.4	5464.7	5161.1	4798.8	4594.1	4608.4	4698.6	4804.6	4472.3
40°	6377.0	6385.6	6239.5	6104.9	5818.5	5447.6	5055.2	4965.0	5049.4	5348.7	5141.1
42.5°	7058.6	7038.6	6975.6	6792.3	6561.7	6339.7	5868.6	5835.6	5910.1	6230.9	6006.1
45°	7850.6	7879.2	7770.4	7668.7	7514.0	7329.3	6935.5	6878.2	6959.8	7458.2	7138.8
47.5°	8643.9	8616.7	8686.9	8668.3	8751.3	8613.8	8265.9	8148.4	8344.6	8817.2	8347.5
50°	9248.2	9278.3	9424.4	9637.8	9994.4	10071.7	9738.0	9697.9	9785.3	10088.9	9428.7
52.5°	9640.6	9740.9	9970.0	10518.5	11161.5	11661.3	11407.8	11386.3	11350.5	11432.1	10462.6
55°	9897.0	9998.6	10297.9	11105.6	12212.6	13024.6	13037.5	12945.8	12709.5	12650.8	11429.3
57.5°	9739.4	9759.5	10186.2	11266.0	12795.5	13997.0	14418.0	14326.3	13889.6	13667.6	12282.8
60°	8754.2	8795.7	9390.0	10658.8	12542.0	14314.9	15333.1	15291.5	14813.2	14562.6	12947.3
62.5°	7008.5	7128.8	7740.3	9155.2	11363.4	13779.3	15704.0	15821.4	15449.1	15103.9	13156.3
63°	6687.7	6649.1	7294.9	8717.0	11051.2	13514.4	15709.7	15858.6	15477.7	15155.5	13099.1
65°	4950.6	5066.6	5486.2	6873.9	9196.7	12281.4	15356.0	15619.5	15371.7	14927.8	12464.7
67.5°	2779.6	2773.9	3237.9	4498.1	6437.1	9633.5	13885.3	14442.3	14390.8	13395.5	10332.3
70°	1360.5	1381.9	1572.4	2331.4	3733.4	6646.2	11538.1	12139.6	12158.2	10521.4	7144.6
72.5°	615.8	625.8	761.9	1135.6	1919.0	3538.6	7950.8	8525.1	8419.1	6704.9	3945.3
75°	325.1	346.6	419.6	571.4	925.1	1459.3	4324.8	4880.5	4658.5	3063.2	1452.1
77.5°	240.6	247.7	285.0	363.7	495.5	568.5	1866.0	2219.7	2079.4	1108.4	481.2
80°	176.1	181.9	211.9	257.8	312.2	289.3	703.1	806.3	723.2	376.6	147.5
82.5°	107.4	108.8	154.7	191.9	196.2	161.8	232.0	249.2	260.6	211.9	80.2
85°	38.7	48.7	104.5	138.9	116.0	81.6	97.4	107.4	117.4	134.6	47.3
87.5°	4.3	5.7	50.1	67.3	32.9	30.1	35.8	40.1	43.0	50.1	22.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458940  
 CATALOG NUMBER: GALN-SA4C-735-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5
2.5°	2142.4	2148.1	2143.8	2136.6	2135.2	2130.9	2122.3	2122.3	2122.3	2125.2	2122.3
5°	2173.9	2178.2	2168.1	2153.8	2138.1	2118.0	2096.5	2083.6	2082.2	2079.4	2072.2
7.5°	2234.0	2239.7	2216.8	2182.5	2139.5	2090.8	2045.0	2002.0	1982.0	1966.2	1966.2
10°	2321.4	2327.1	2281.3	2219.7	2133.8	2035.0	1926.1	1827.3	1750.0	1714.2	1705.6
12.5°	2425.9	2428.8	2352.9	2245.5	2103.7	1913.2	1681.2	1465.0	1314.6	1245.9	1238.7
15°	2540.5	2520.4	2420.2	2255.5	2017.8	1662.6	1261.6	996.7	840.6	794.8	812.0
17.5°	2656.5	2619.2	2471.7	2239.7	1824.4	1261.6	847.8	680.2	631.5	618.7	618.7
20°	2765.3	2713.8	2509.0	2171.0	1489.3	869.3	628.7	588.6	580.0	571.4	572.8
22.5°	2874.1	2795.4	2541.9	2017.8	1109.8	621.5	562.8	549.9	538.5	527.0	525.6
25°	2980.1	2871.3	2554.8	1734.2	756.1	534.2	514.1	496.9	474.0	461.1	458.3
27.5°	3090.4	2962.9	2546.2	1376.2	551.3	478.3	458.3	433.9	406.7	383.8	383.8
30°	3302.3	3137.6	2516.1	989.6	464.0	421.0	395.2	356.6	326.5	303.6	302.2
32.5°	3591.6	3365.3	2413.0	696.0	412.4	370.9	332.2	289.3	257.8	240.6	240.6
35°	3849.4	3594.5	2219.7	512.7	370.9	322.2	275.0	233.4	209.1	197.6	193.3
37.5°	4241.8	3929.6	1953.3	416.7	330.8	279.3	230.6	191.9	171.8	163.3	163.3
40°	4830.3	4339.1	1626.8	365.2	292.1	237.7	191.9	161.8	146.1	136.0	136.0
42.5°	5560.7	4840.4	1296.0	327.9	256.3	204.8	160.4	137.5	123.2	116.0	114.6
45°	6480.1	5368.8	998.1	293.6	227.7	174.7	136.0	116.0	101.7	97.4	98.8
47.5°	7439.6	5834.2	773.3	263.5	197.6	147.5	116.0	100.2	90.2	84.5	84.5
50°	8258.7	6155.0	587.1	229.1	174.7	124.6	101.7	90.2	81.6	78.8	77.3
52.5°	8943.2	6248.1	449.7	199.1	153.2	107.4	90.2	81.6	74.5	70.2	70.2
55°	9526.1	6166.5	352.3	167.6	128.9	93.1	80.2	73.0	64.4	60.1	58.7
57.5°	9866.9	5904.4	269.2	138.9	104.5	77.3	70.2	61.6	51.6	44.4	44.4
60°	10038.7	5523.5	206.2	114.6	80.2	61.6	57.3	45.8	35.8	30.1	28.6
62.5°	9832.5	5017.9	156.1	90.2	60.1	45.8	38.7	32.9	22.9	17.2	17.2
63°	9705.1	4871.9	150.4	85.9	55.9	43.0	35.8	30.1	20.0	15.8	14.3
65°	8847.3	4234.6	123.2	68.7	44.4	30.1	24.3	21.5	14.3	7.2	5.7
67.5°	7025.7	3239.3	97.4	51.6	31.5	21.5	14.3	12.9	4.3	0.0	0.0
70°	4750.1	2092.2	75.9	37.2	21.5	12.9	7.2	5.7	1.4	0.0	0.0
72.5°	2477.5	1072.6	58.7	27.2	12.9	8.6	4.3	1.4	0.0	0.0	0.0
75°	876.4	365.2	43.0	17.2	8.6	4.3	1.4	0.0	0.0	0.0	0.0
77.5°	264.9	136.0	27.2	12.9	5.7	2.9	0.0	0.0	0.0	0.0	0.0
80°	93.1	50.1	15.8	8.6	4.3	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	45.8	24.3	10.0	7.2	4.3	1.4	0.0	0.0	0.0	0.0	0.0
85°	25.8	15.8	8.6	7.2	4.3	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	11.5	8.6	7.2	5.7	2.9	1.4	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)