

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: P459114

Luminaire Tested: **GALN-SA6A-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459114
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-SA6A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA 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: 18547 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

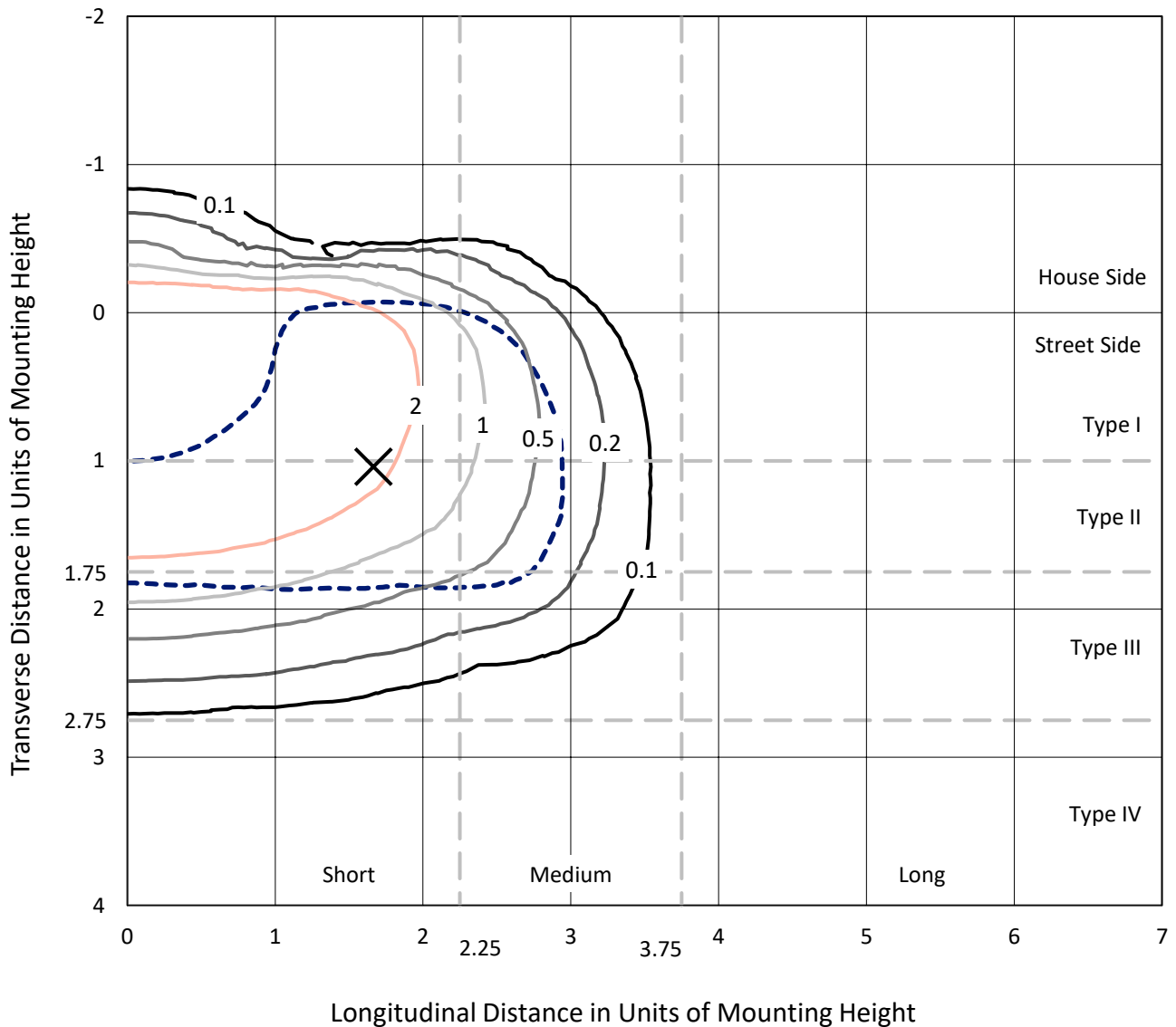
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

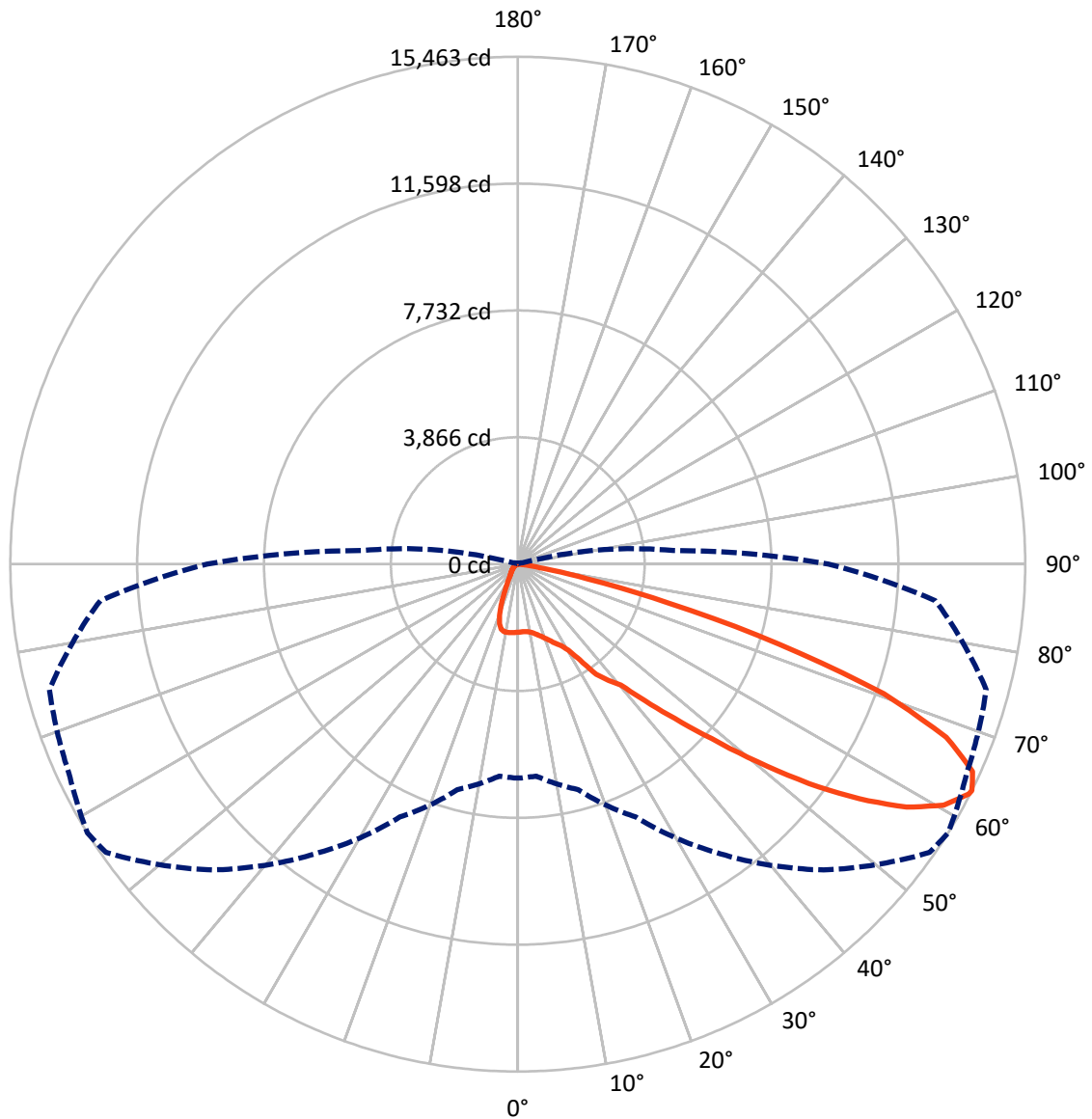
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1920.4	0.0	1920.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	16626.6	0.0	16626.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	18547.0	0.0	18547.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	1.0
10°-20°	529.4	2.9
20°-30°	918.8	5.0
30°-40°	1688.5	9.1
40°-50°	3178.5	17.1
50°-60°	5436.6	29.3
60°-70°	5205.5	28.1
70°-80°	1327.4	7.2
80°-90°	67.9	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°	18547.0	100.0
0°-180°	18547.0	100.0



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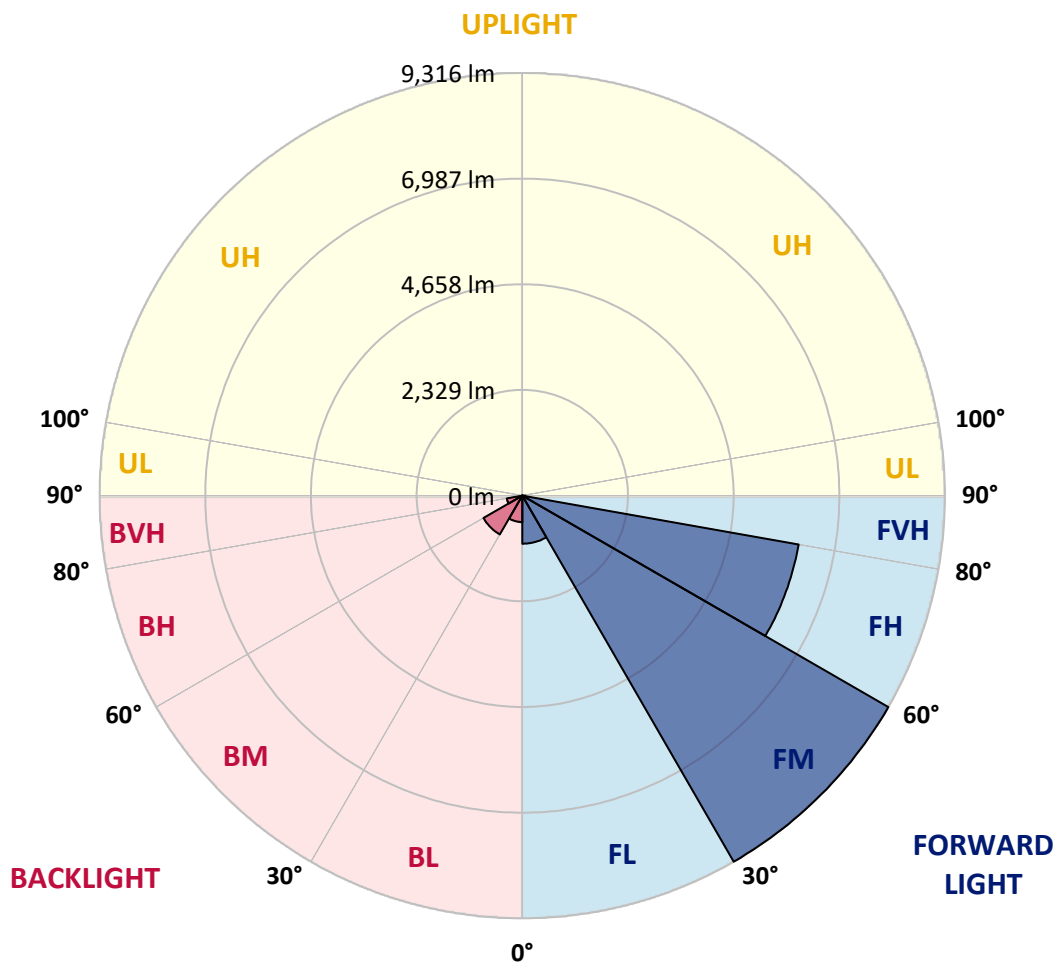
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1060.2	5.7			
FM	(30°-60°)	9315.8	50.2			
FH	(60°-80°)	6185.3	33.3			G3/7500
FVH	(80°-90°)	65.2	0.4			G1/100
BL	(0°-30°)	582.4	3.1	B2/1000		
BM	(30°-60°)	987.8	5.3	B1/1000		
BH	(60°-80°)	347.6	1.9	B1/500		G1/500
BVH	(80°-90°)	2.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4
2.5°	2024.7	2031.7	2038.7	2041.5	2051.3	2061.0	2068.0	2066.6	2077.8	2083.4	2083.4
5°	1943.8	1943.8	1961.9	1978.7	2006.6	2034.5	2061.0	2066.6	2087.6	2107.1	2114.1
7.5°	1875.3	1879.5	1893.5	1924.2	1961.9	2010.8	2063.8	2076.4	2112.7	2156.0	2174.2
10°	1843.2	1846.0	1864.2	1896.3	1943.8	2010.8	2084.8	2108.5	2164.4	2232.8	2257.9
12.5°	1836.2	1840.4	1858.6	1894.9	1949.3	2030.3	2130.9	2156.0	2237.0	2325.0	2362.7
15°	1848.8	1851.6	1869.7	1908.8	1968.9	2065.2	2192.3	2227.2	2323.6	2425.5	2474.4
17.5°	1893.5	1890.7	1903.3	1935.4	2002.4	2108.5	2266.3	2308.2	2421.3	2561.0	2593.1
20°	2083.4	2065.2	2054.1	2026.1	2052.7	2170.0	2355.7	2417.1	2556.8	2699.2	2721.5
22.5°	2492.5	2452.0	2372.4	2263.5	2179.7	2253.7	2463.2	2534.4	2714.6	2854.2	2854.2
25°	3013.4	2961.7	2882.1	2644.7	2439.5	2392.0	2584.7	2674.1	2886.3	3027.3	2981.3
27.5°	3665.5	3625.0	3470.0	3193.5	2879.3	2633.6	2725.7	2808.1	3038.5	3208.9	3112.5
30°	4196.1	4176.6	4049.5	3802.3	3456.0	3097.2	2988.2	3042.7	3241.0	3437.9	3338.7
32.5°	4644.3	4644.3	4514.5	4284.1	3960.1	3641.7	3433.7	3472.8	3662.7	3890.3	3706.0
35°	5137.3	5120.5	5015.8	4796.5	4433.5	4152.8	4067.6	4120.7	4292.5	4461.4	4007.6
37.5°	5655.3	5649.7	5540.8	5328.6	5032.5	4679.2	4479.6	4493.5	4581.5	4684.8	4360.9
40°	6218.1	6226.4	6084.0	5952.7	5673.5	5311.8	4929.2	4841.2	4923.6	5215.5	5013.0
42.5°	6882.7	6863.2	6801.7	6623.0	6398.2	6181.7	5722.3	5690.2	5762.8	6075.6	5856.4
45°	7654.9	7682.9	7576.7	7477.6	7326.8	7146.6	6762.6	6706.8	6786.4	7272.3	6960.9
47.5°	8428.5	8402.0	8470.4	8452.3	8533.2	8399.2	8059.9	7945.4	8136.7	8597.5	8139.5
50°	9017.8	9047.1	9189.5	9397.6	9745.3	9820.7	9495.3	9456.2	9541.4	9837.5	9193.7
52.5°	9400.4	9498.1	9721.6	10256.4	10883.3	11370.7	11123.5	11102.6	11067.7	11147.3	10201.9
55°	9650.3	9749.5	10041.3	10828.9	11908.3	12700.0	12712.6	12623.2	12392.8	12335.6	11144.5
57.5°	9496.7	9516.3	9932.4	10985.3	12476.6	13648.2	14058.7	13969.3	13543.4	13327.0	11976.7
60°	8536.0	8576.5	9156.0	10393.2	12229.4	13958.2	14951.0	14910.5	14444.1	14199.7	12624.6
62.5°	6833.9	6951.2	7547.4	8927.0	11080.2	13435.9	15312.6	15427.1	15064.1	14727.6	12828.5
63°	6521.1	6483.4	7113.1	8499.7	10775.8	13177.6	15318.2	15463.4	15092.0	14777.8	12772.6
65°	4827.3	4940.4	5349.5	6702.6	8967.5	11975.3	14973.3	15230.3	14988.7	14555.8	12154.0
67.5°	2710.4	2704.8	3157.2	4386.0	6276.7	9393.4	13539.2	14082.4	14032.2	13061.7	10074.8
70°	1326.6	1347.5	1533.2	2273.3	3640.3	6480.6	11250.6	11837.1	11855.2	10259.2	6966.5
72.5°	600.4	610.2	742.9	1107.3	1871.1	3450.4	7752.7	8312.6	8209.3	6537.8	3847.0
75°	317.0	337.9	409.1	557.2	902.1	1422.9	4217.0	4758.8	4542.4	2986.8	1415.9
77.5°	234.6	241.6	277.9	354.7	483.1	554.4	1819.5	2164.4	2027.5	1080.8	469.2
80°	171.8	177.3	206.7	251.3	304.4	282.1	685.6	786.2	705.2	367.2	143.8
82.5°	104.7	106.1	150.8	187.1	191.3	157.8	226.2	243.0	254.1	206.7	78.2
85°	37.7	47.5	101.9	135.4	113.1	79.6	95.0	104.7	114.5	131.3	46.1
87.5°	4.2	5.6	48.9	65.6	32.1	29.3	34.9	39.1	41.9	48.9	22.3
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°	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4	2076.4
2.5°	2089.0	2094.6	2090.4	2083.4	2082.0	2077.8	2069.4	2069.4	2069.4	2072.2	2069.4
5°	2119.7	2123.9	2114.1	2100.1	2084.8	2065.2	2044.3	2031.7	2030.3	2027.5	2020.6
7.5°	2178.3	2183.9	2161.6	2128.1	2086.2	2038.7	1994.0	1952.1	1932.6	1917.2	1917.2
10°	2263.5	2269.1	2224.4	2164.4	2080.6	1984.2	1878.1	1781.8	1706.4	1671.5	1663.1
12.5°	2365.5	2368.3	2294.2	2189.5	2051.3	1865.6	1639.3	1428.5	1281.9	1214.8	1207.9
15°	2477.2	2457.6	2359.9	2199.3	1967.5	1621.2	1230.2	971.9	819.7	775.0	791.7
17.5°	2590.3	2554.0	2410.1	2183.9	1779.0	1230.2	826.7	663.3	615.8	603.2	603.2
20°	2696.4	2646.1	2446.4	2116.9	1452.2	847.6	613.0	573.9	565.5	557.2	558.5
22.5°	2802.5	2725.7	2478.6	1967.5	1082.2	606.0	548.8	536.2	525.0	513.9	512.5
25°	2905.9	2799.7	2491.1	1691.0	737.3	520.8	501.3	484.5	462.2	449.6	446.8
27.5°	3013.4	2889.1	2482.8	1341.9	537.6	466.4	446.8	423.1	396.6	374.2	374.2
30°	3220.0	3059.5	2453.4	964.9	452.4	410.5	385.4	347.7	318.4	296.0	294.6
32.5°	3502.1	3281.5	2352.9	678.6	402.2	361.7	324.0	282.1	251.3	234.6	234.6
35°	3753.5	3504.9	2164.4	499.9	361.7	314.2	268.1	227.6	203.9	192.7	188.5
37.5°	4136.1	3831.7	1904.7	406.3	322.6	272.3	224.8	187.1	167.6	159.2	159.2
40°	4710.0	4231.0	1586.3	356.1	284.9	231.8	187.1	157.8	142.4	132.7	132.7
42.5°	5422.1	4719.7	1263.7	319.8	250.0	199.7	156.4	134.1	120.1	113.1	111.7
45°	6318.6	5235.0	973.3	286.3	222.0	170.4	132.7	113.1	99.1	95.0	96.3
47.5°	7254.2	5688.8	754.0	256.9	192.7	143.8	113.1	97.7	88.0	82.4	82.4
50°	8052.9	6001.6	572.5	223.4	170.4	121.5	99.1	88.0	79.6	76.8	75.4
52.5°	8720.4	6092.4	438.5	194.1	149.4	104.7	88.0	79.6	72.6	68.4	68.4
55°	9288.7	6012.8	343.5	163.4	125.7	90.8	78.2	71.2	62.8	58.6	57.3
57.5°	9621.0	5757.3	262.5	135.4	101.9	75.4	68.4	60.0	50.3	43.3	43.3
60°	9788.6	5385.8	201.1	111.7	78.2	60.0	55.9	44.7	34.9	29.3	27.9
62.5°	9587.5	4892.9	152.2	88.0	58.6	44.7	37.7	32.1	22.3	16.8	16.8
63°	9463.2	4750.5	146.6	83.8	54.5	41.9	34.9	29.3	19.5	15.4	14.0
65°	8626.8	4129.1	120.1	67.0	43.3	29.3	23.7	20.9	14.0	7.0	5.6
67.5°	6850.6	3158.6	95.0	50.3	30.7	20.9	14.0	12.6	4.2	0.0	0.0
70°	4631.8	2040.1	74.0	36.3	20.9	12.6	7.0	5.6	1.4	0.0	0.0
72.5°	2415.7	1045.9	57.3	26.5	12.6	8.4	4.2	1.4	0.0	0.0	0.0
75°	854.6	356.1	41.9	16.8	8.4	4.2	1.4	0.0	0.0	0.0	0.0
77.5°	258.3	132.7	26.5	12.6	5.6	2.8	0.0	0.0	0.0	0.0	0.0
80°	90.8	48.9	15.4	8.4	4.2	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	44.7	23.7	9.8	7.0	4.2	1.4	0.0	0.0	0.0	0.0	0.0
85°	25.1	15.4	8.4	7.0	4.2	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	11.2	8.4	7.0	5.6	2.8	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)