

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: P383042

Luminaire Tested: **GLEON-SA3D-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3D-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15670.5 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

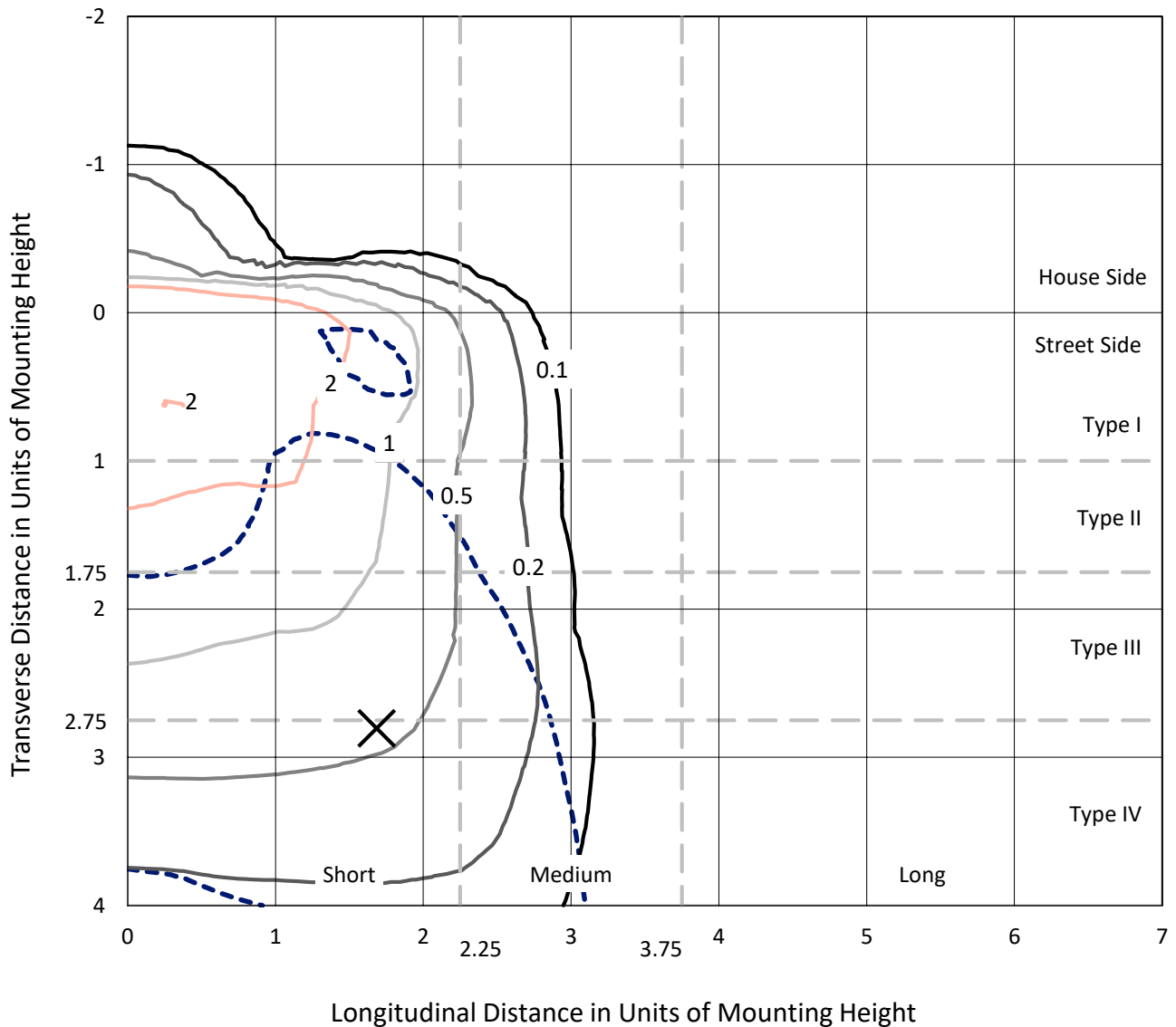
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

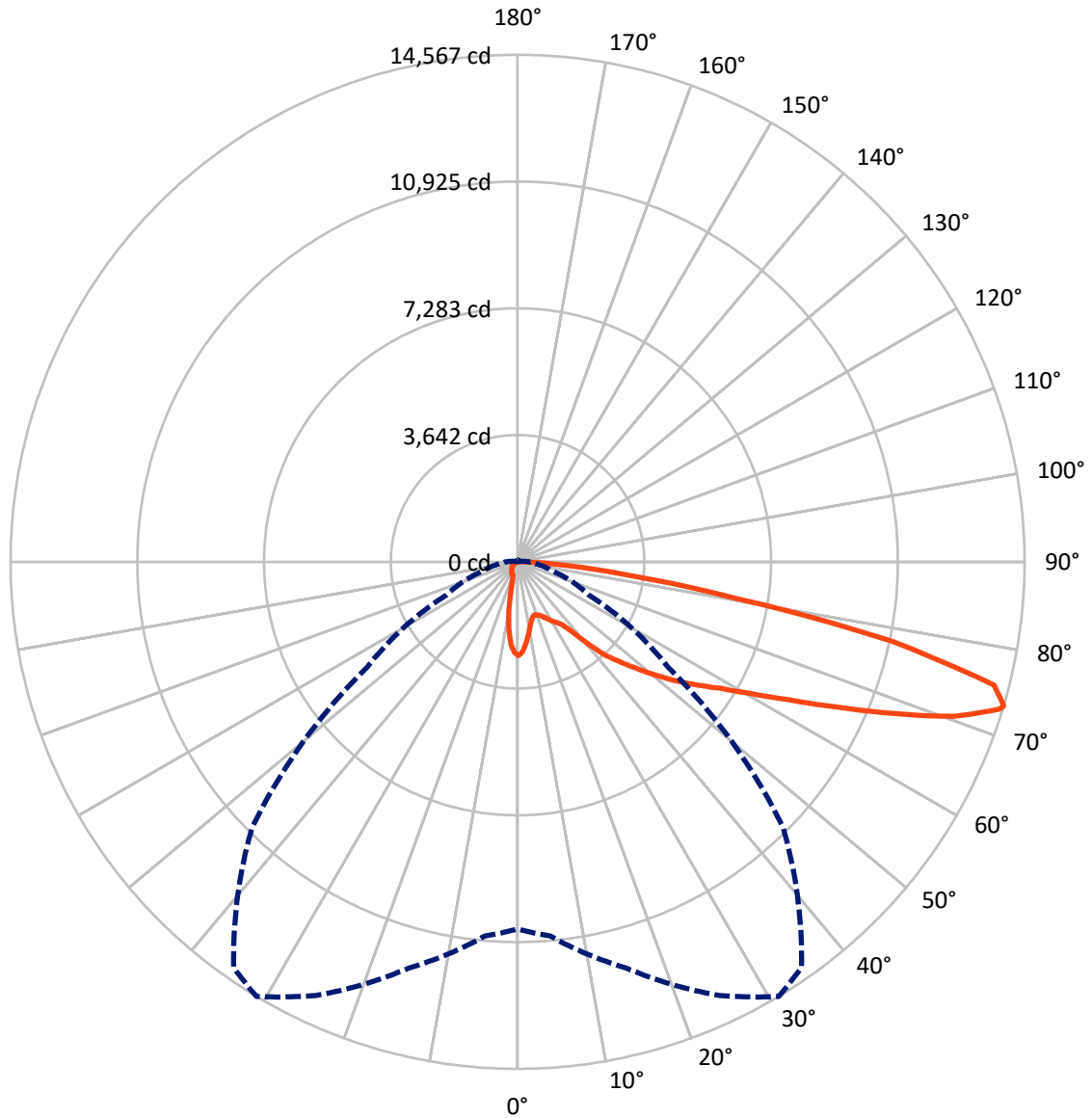
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1428.4	0.0	1428.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	14242.1	0.0	14242.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	15670.5	0.0	15670.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.5	1.4
10°-20°	485.4	3.1
20°-30°	727.2	4.6
30°-40°	1157.1	7.4
40°-50°	2066.2	13.2
50°-60°	3206.1	20.5
60°-70°	4262.1	27.2
70°-80°	3206.0	20.5
80°-90°	336.9	2.1
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°	15670.5	100.0
0°-180°	15670.5	100.0

Coefficient of Utilization



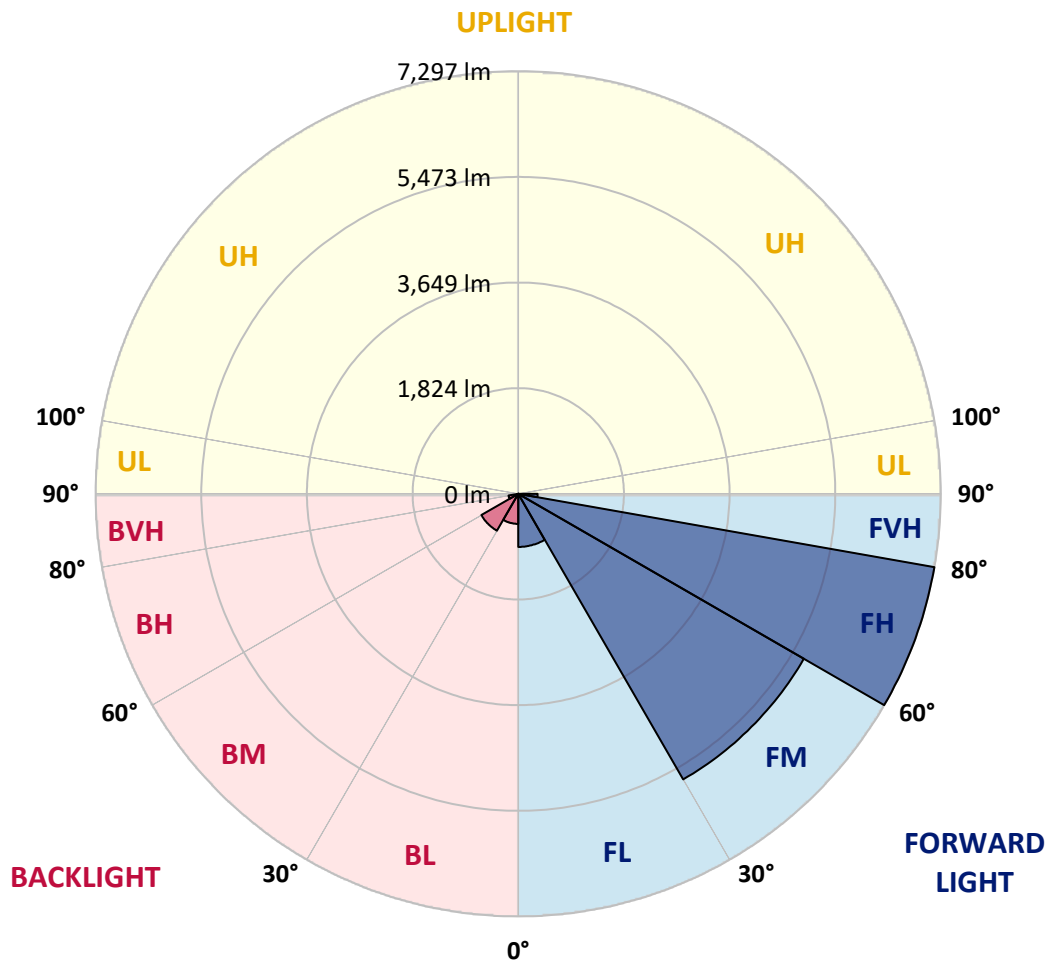
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.7	5.9			
FM (30°-60°)	5694.1	36.3			
FH (60°-80°)	7297.2	46.6			G3/7500
FVH (80°-90°)	334.0	2.1			G3/500
BL (0°-30°)	519.4	3.3	B2/1000		
BM (30°-60°)	735.3	4.7	B1/1000		
BH (60°-80°)	170.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2696.2	2696.2	2696.2	2696.2	2696.2	2696.2	2696.2	2696.2	2696.2	2696.2	2696.2
2.5°	2555.0	2565.8	2577.3	2579.5	2598.7	2599.5	2627.2	2647.8	2668.5	2688.4	2695.3
5°	2292.8	2310.4	2331.1	2351.9	2392.5	2408.6	2476.1	2545.1	2611.0	2673.9	2704.6
7.5°	2012.9	2032.8	2062.0	2113.4	2158.6	2190.1	2296.6	2419.3	2542.0	2657.8	2724.5
10°	1757.6	1776.0	1806.6	1861.0	1930.8	1973.8	2117.2	2287.4	2467.7	2643.3	2754.4
12.5°	1595.0	1605.0	1621.8	1680.1	1743.0	1791.3	1960.0	2170.9	2406.3	2642.4	2802.7
15°	1565.1	1568.2	1554.4	1580.4	1629.5	1676.2	1847.3	2076.5	2359.5	2654.7	2865.6
17.5°	1612.6	1611.1	1565.1	1562.0	1601.1	1639.4	1792.0	2011.4	2326.5	2683.1	2946.9
20°	1684.7	1679.3	1599.6	1585.0	1626.4	1662.4	1788.2	1986.8	2314.2	2730.6	3045.8
22.5°	1780.6	1771.3	1646.3	1631.0	1675.5	1713.1	1835.8	2010.6	2325.0	2794.3	3160.8
25°	1899.4	1885.6	1726.9	1710.0	1755.2	1792.9	1920.9	2078.8	2357.2	2871.8	3306.5
27.5°	2033.6	2013.6	1855.7	1812.0	1863.4	1902.5	2034.4	2183.2	2407.8	2953.8	3485.2
30°	2160.2	2134.1	1991.5	1919.4	1982.2	2025.9	2157.1	2307.4	2489.1	3080.3	3729.8
32.5°	2287.4	2258.3	2112.6	2026.7	2083.4	2131.0	2283.6	2478.4	2641.7	3273.6	4054.9
35°	2580.4	2549.6	2371.0	2229.2	2228.4	2255.2	2460.7	2712.2	2843.4	3542.7	4442.9
37.5°	3073.5	3055.8	2885.6	2616.4	2544.3	2514.4	2702.2	2991.4	3133.3	3913.1	4880.8
40°	3613.3	3597.9	3406.9	3163.2	3053.5	2979.8	3048.9	3380.1	3542.7	4365.5	5327.9
42.5°	4222.9	4150.0	3809.6	3736.7	3638.5	3582.5	3520.5	3859.4	4045.7	4857.8	5771.1
45°	4776.5	4653.8	4212.2	4101.7	4079.5	4093.3	4127.8	4503.6	4611.6	5442.8	6212.8
47.5°	5106.3	5009.7	4670.7	4564.9	4558.7	4650.0	4910.7	5231.3	5175.3	5952.9	6601.6
50°	5419.9	5332.5	5051.0	5077.1	5105.5	5229.7	5799.4	5979.7	5689.8	6415.2	6958.1
52.5°	5673.7	5540.3	5393.0	5539.5	5679.1	5879.2	6716.6	6651.4	6054.8	6783.3	7263.3
55°	5820.1	5759.6	5830.9	5978.1	6240.3	6565.5	7582.3	7210.5	6321.7	7119.2	7466.5
57.5°	6357.0	6238.1	6380.0	6507.2	6849.2	7304.0	8323.8	7626.8	6514.1	7327.0	7513.3
60°	7006.4	6910.6	6994.2	7205.8	7667.5	8201.9	9017.0	7966.5	6614.5	7460.4	7392.1
62.5°	8040.1	7913.6	7861.4	8098.4	8710.3	9293.9	9543.1	8201.9	6592.4	7401.3	6976.5
65°	9425.0	9293.9	9060.8	9275.4	10053.8	10465.6	10131.2	8251.7	6439.0	6923.6	5925.9
67.5°	10843.6	10748.5	10549.1	10911.1	11613.5	11746.2	10753.1	8130.6	5945.1	5613.9	4186.8
70°	11780.6	11740.0	11869.6	12670.2	13296.6	13258.3	11323.6	7479.6	4633.9	3452.2	2071.2
72.5°	11105.1	11299.9	12256.8	13708.5	14473.7	14160.8	11030.7	5743.5	2648.6	1328.1	598.9
73°	10545.3	10794.5	12082.8	13747.6	14566.5	14223.7	10784.5	5271.9	2257.5	1048.3	453.9
75°	7336.2	7642.1	10003.1	12803.6	14132.5	13552.1	8989.4	3226.8	1045.9	464.7	183.2
77.5°	3561.9	3788.1	5508.1	9250.9	10990.9	10588.2	5596.3	1202.3	472.4	290.6	84.3
80°	1329.7	1478.5	2390.9	4708.3	6351.6	6517.9	2461.5	454.7	314.4	233.9	42.9
82.5°	348.1	388.0	881.8	2099.5	3255.1	3406.9	776.0	229.3	230.1	192.5	26.1
85°	111.2	127.2	275.3	942.4	1533.6	1346.6	202.4	111.2	167.2	143.4	14.5
87.5°	13.8	17.6	87.4	221.6	338.2	187.9	31.4	33.0	71.4	79.7	8.5
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°	2696.2	2696.2	2696.2	2696.2	2696.2	2696.2	2696.2	2696.2	2696.2	2696.2	2696.2
2.5°	2702.2	2698.4	2699.3	2679.2	2666.3	2640.2	2613.4	2601.1	2588.0	2582.6	2588.0
5°	2716.1	2709.2	2689.3	2627.9	2562.7	2478.4	2399.4	2339.6	2264.4	2243.7	2265.2
7.5°	2737.5	2723.8	2665.4	2540.5	2395.6	2234.5	2053.5	1921.7	1813.5	1743.8	1769.0
10°	2769.0	2742.9	2625.6	2413.2	2154.0	1868.8	1611.9	1411.8	1269.9	1211.6	1209.2
12.5°	2821.9	2772.8	2576.5	2247.5	1858.8	1478.5	1141.8	924.7	809.8	735.4	733.9
15°	2880.2	2808.1	2514.4	2048.9	1515.3	1059.0	735.4	570.5	496.1	472.4	469.3
17.5°	2951.5	2848.8	2433.9	1804.3	1155.6	701.6	480.0	432.5	429.4	427.1	427.1
20°	3041.2	2897.0	2330.4	1524.5	819.8	468.6	407.9	411.0	412.6	409.5	410.3
22.5°	3145.5	2946.1	2206.9	1223.9	554.5	391.8	390.3	394.1	395.7	394.1	394.9
25°	3266.7	3002.8	2056.6	908.7	400.3	371.9	375.8	381.1	384.9	384.9	384.9
27.5°	3416.9	3071.9	1875.7	634.2	345.8	351.2	361.9	371.9	377.3	378.8	378.8
30°	3612.4	3157.8	1658.6	434.8	314.4	323.6	343.6	362.7	372.7	374.2	374.9
32.5°	3859.4	3254.4	1407.1	321.3	287.6	294.5	315.9	348.1	367.3	370.4	370.4
35°	4142.4	3366.3	1136.4	279.9	268.4	270.7	287.6	324.4	358.1	366.6	367.3
37.5°	4452.1	3476.7	864.2	261.5	252.3	252.3	264.6	296.0	335.8	361.9	365.0
40°	4741.2	3543.5	605.8	247.0	237.7	237.7	248.4	271.5	309.0	348.1	356.6
42.5°	5008.1	3566.5	421.7	233.1	223.9	226.2	235.4	253.8	282.2	321.3	328.9
45°	5282.6	3562.6	307.5	217.1	210.1	217.1	223.9	237.7	258.4	280.7	282.2
47.5°	5489.7	3530.5	243.9	201.7	197.1	206.2	212.4	221.6	233.1	231.6	231.6
50°	5683.7	3452.2	196.3	181.0	184.1	194.8	197.9	200.9	201.7	187.1	185.6
52.5°	5830.9	3330.3	157.2	158.7	171.0	181.7	178.7	174.1	166.4	148.8	145.7
55°	5880.0	3095.6	123.4	131.2	151.8	165.6	154.2	144.2	129.6	115.0	112.0
57.5°	5791.1	2792.8	100.4	102.0	128.1	139.5	126.5	115.0	98.9	86.6	84.3
60°	5602.4	2456.1	82.8	76.7	98.9	108.9	100.4	89.0	74.3	65.2	64.4
62.5°	5228.2	2097.3	68.3	59.8	75.2	83.6	78.2	69.8	57.5	51.4	50.6
65°	4441.4	1677.8	55.2	48.3	58.3	65.2	60.6	54.4	45.3	40.6	39.9
67.5°	3100.3	1134.2	45.3	39.9	46.0	51.4	47.5	44.4	36.1	35.3	36.1
70°	1495.3	546.7	37.5	32.2	36.1	39.9	38.4	36.1	34.5	39.9	46.0
72.5°	428.7	183.2	29.9	26.8	29.2	31.4	33.0	32.2	37.5	48.3	56.0
73°	329.8	148.0	28.4	25.3	27.6	30.6	32.2	31.4	38.4	49.1	56.0
75°	141.1	71.4	21.4	20.7	23.0	26.8	28.4	28.4	38.4	49.8	53.7
77.5°	63.6	38.4	13.8	16.1	19.9	21.4	23.8	23.8	30.6	38.4	38.4
80°	36.1	20.7	10.7	12.3	14.5	14.5	14.5	13.0	13.8	15.4	16.9
82.5°	23.0	13.8	8.5	10.0	9.2	7.6	6.1	6.1	5.4	6.1	7.6
85°	13.0	7.6	7.6	6.1	3.8	3.1	3.8	3.1	0.7	0.0	0.7
87.5°	7.6	4.6	2.3	0.0	0.0	0.0	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)