

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: P458828

Luminaire Tested: **GALN-SA3C-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA 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: 14078 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

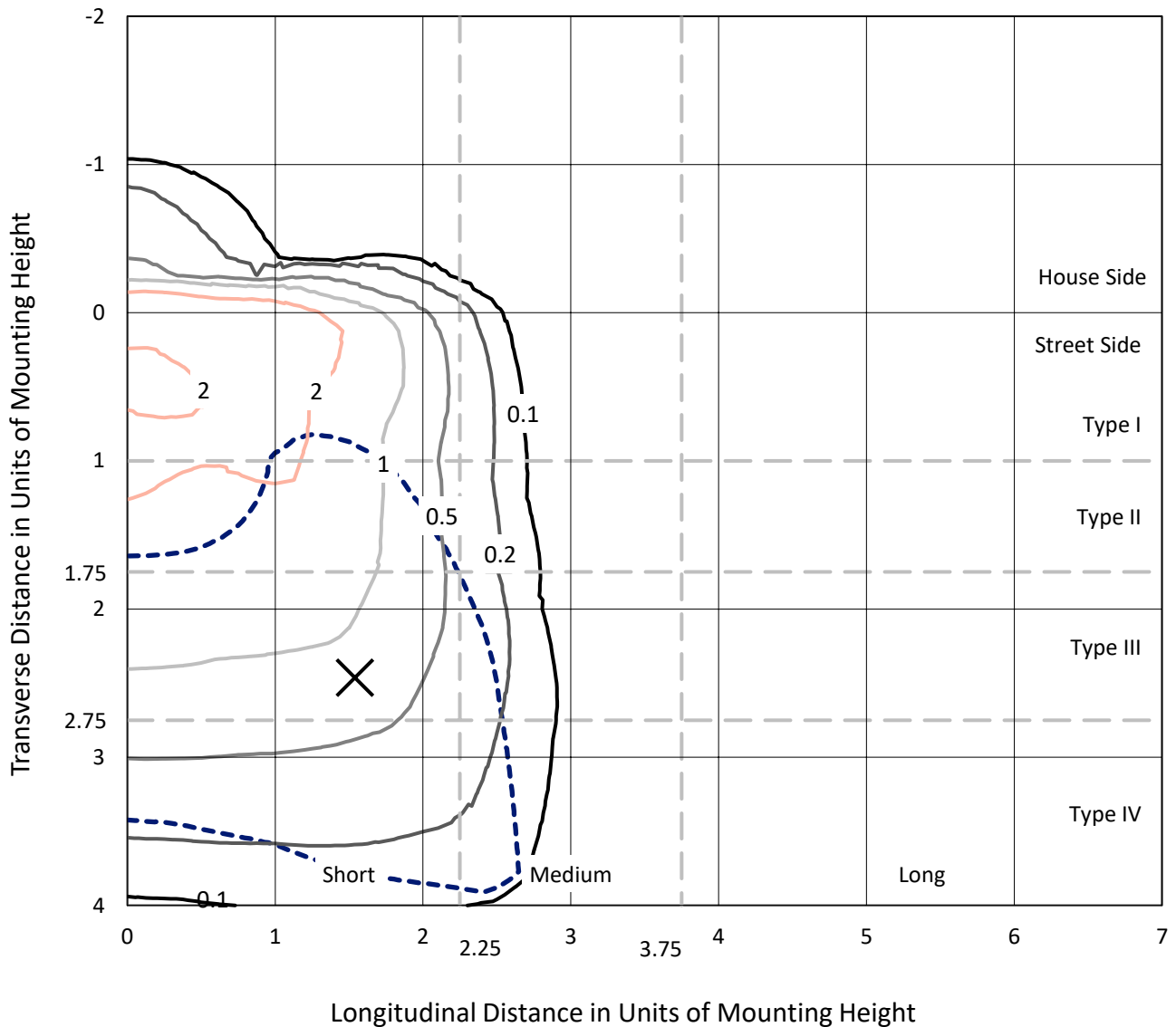
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458828
 CATALOG NUMBER: GALN-SA3C-735-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

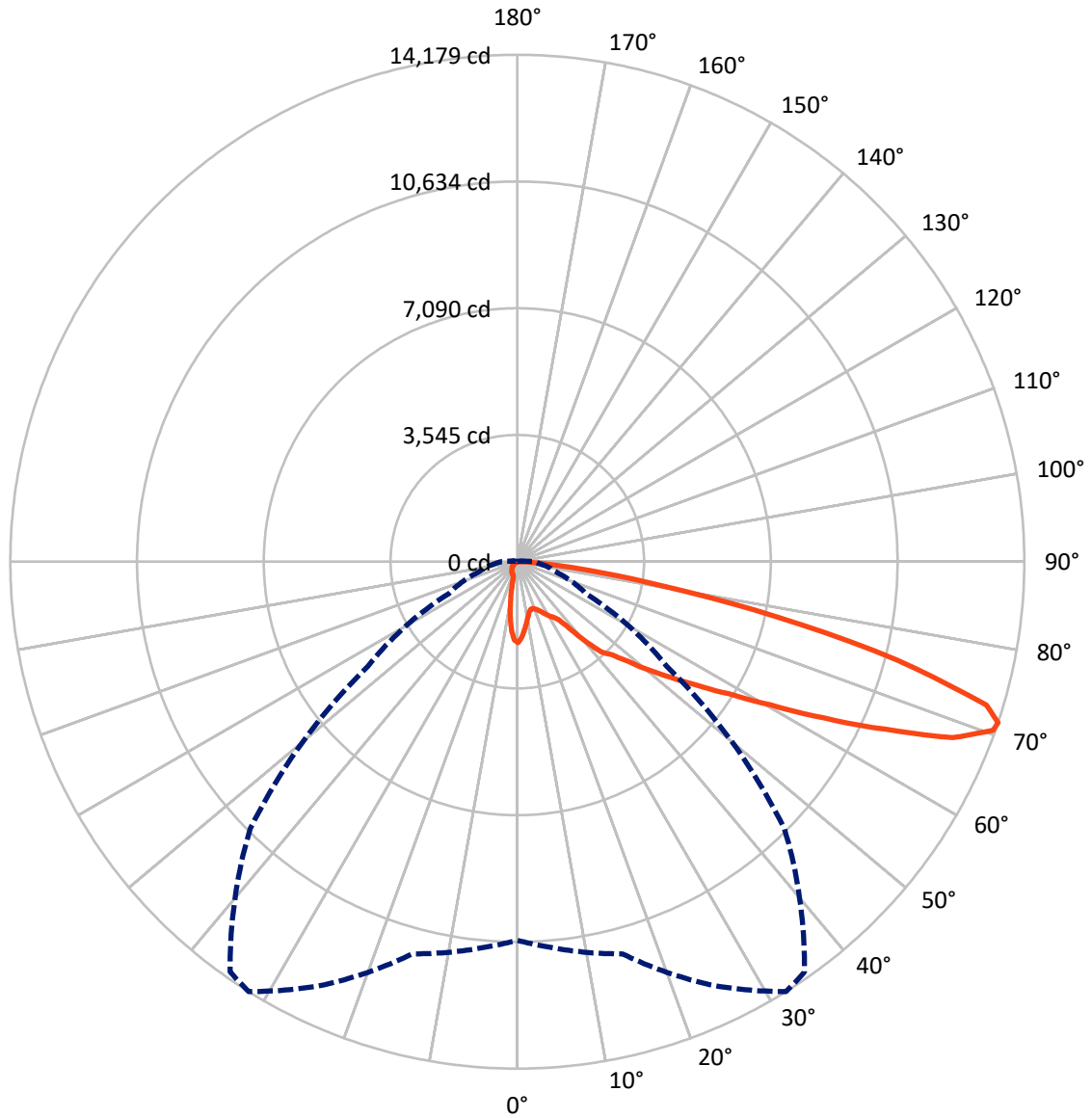
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P458828
CATALOG NUMBER: GALN-SA3C-735-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1179.2	0.0	1179.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12898.8	0.0	12898.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	14078.0	0.0	14078.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	1.3
10°-20°	399.5	2.8
20°-30°	621.6	4.4
30°-40°	1035.5	7.4
40°-50°	1926.2	13.7
50°-60°	3092.6	22.0
60°-70°	4159.7	29.5
70°-80°	2468.0	17.5
80°-90°	190.8	1.4
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°	14078.0	100.0
0°-180°	14078.0	100.0



REPORT NUMBER: P458828

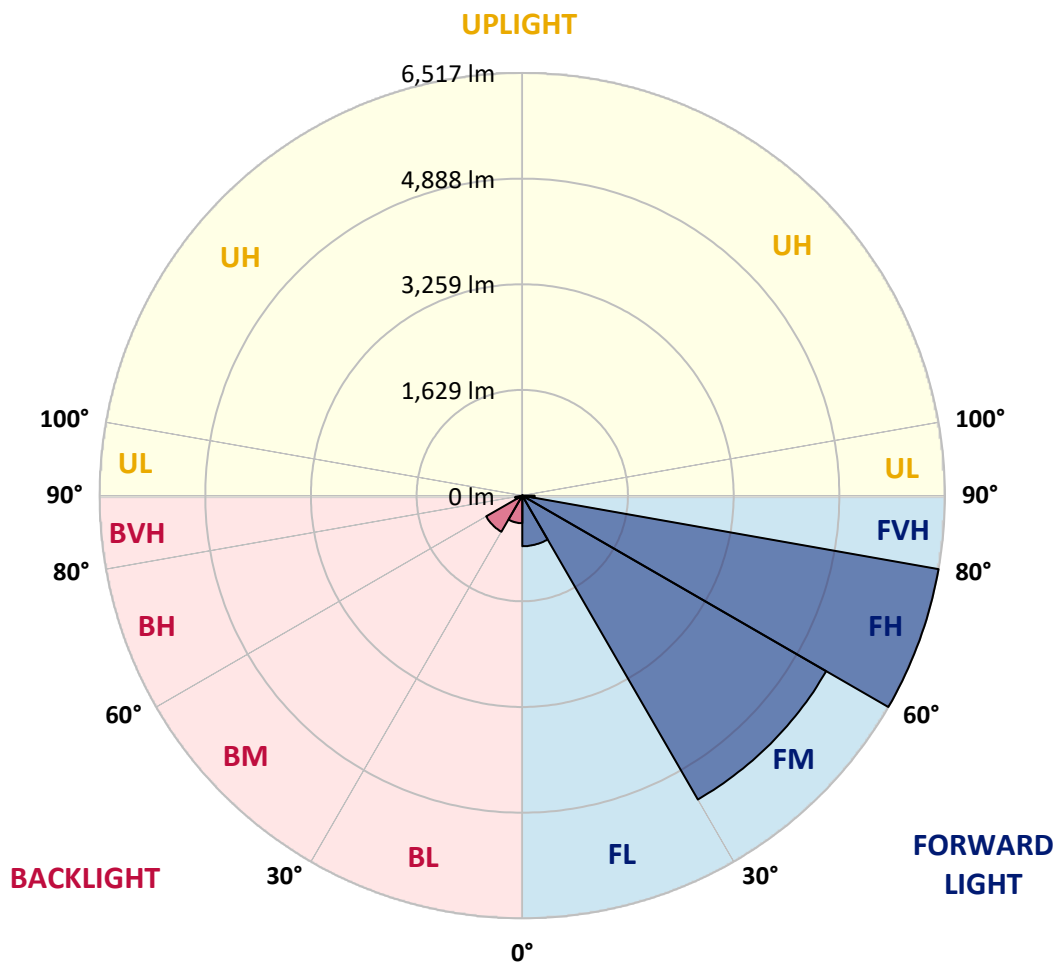
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	780.3	5.5			
FM	(30°-60°)	5411.1	38.4			
FH	(60°-80°)	6517.4	46.3			G3/7500
FVH	(80°-90°)	190.0	1.3			G2/225
BL	(0°-30°)	424.9	3.0	B1/500		
BM	(30°-60°)	643.3	4.6	B1/1000		
BH	(60°-80°)	110.3	0.8	B1/500		G1/500
BVH	(80°-90°)	0.7	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





REPORT NUMBER: P458828

CATALOG NUMBER: GALN-SA3C-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0
2.5°	2099.7	2121.3	2118.1	2125.6	2144.0	2151.6	2172.1	2194.8	2226.1	2247.8	2261.8
5°	1880.3	1896.5	1898.7	1936.5	1954.9	1975.4	2035.9	2101.9	2175.3	2233.7	2272.6
7.5°	1645.8	1654.5	1671.8	1721.5	1767.9	1788.5	1880.3	1994.9	2110.5	2219.7	2289.9
10°	1452.4	1462.1	1493.5	1546.4	1589.6	1616.7	1744.2	1887.9	2050.0	2212.1	2314.8
12.5°	1342.2	1347.6	1359.5	1407.0	1462.1	1491.3	1628.5	1792.8	2001.4	2215.3	2356.9
15°	1334.6	1332.4	1318.4	1337.8	1387.6	1417.8	1551.8	1728.0	1958.1	2226.1	2406.6
17.5°	1374.6	1369.2	1335.7	1335.7	1376.7	1401.6	1519.4	1693.4	1936.5	2251.0	2476.9
20°	1436.2	1427.5	1372.4	1368.1	1408.1	1434.0	1538.8	1695.5	1940.8	2297.5	2570.9
22.5°	1514.0	1504.3	1421.1	1423.2	1466.4	1492.4	1595.0	1734.4	1967.9	2354.7	2671.4
25°	1615.6	1604.8	1506.4	1502.1	1547.5	1570.2	1678.2	1803.6	2005.7	2426.1	2803.2
27.5°	1750.7	1728.0	1610.2	1603.7	1652.3	1681.5	1778.8	1896.5	2072.7	2524.4	2980.4
30°	1862.0	1837.1	1724.7	1707.4	1759.3	1782.0	1882.5	2021.9	2204.5	2696.2	3225.7
32.5°	2007.8	1971.1	1839.3	1793.9	1849.0	1878.2	2032.7	2255.3	2400.1	2877.8	3517.5
35°	2336.4	2313.7	2152.7	1993.8	1990.6	2027.3	2254.2	2490.9	2601.1	3160.9	3915.2
37.5°	2806.4	2790.2	2619.5	2406.6	2345.0	2327.7	2523.3	2750.3	2922.1	3549.9	4377.7
40°	3352.2	3314.4	3157.7	2977.2	2897.2	2846.4	2841.0	3136.0	3341.4	4078.4	4859.7
42.5°	3743.4	3674.2	3484.0	3471.0	3453.8	3400.8	3247.4	3700.1	3882.8	4646.8	5375.2
45°	4154.0	4049.2	3766.1	3717.4	3711.0	3707.7	3861.2	4368.0	4472.8	5262.8	5904.7
47.5°	4472.8	4389.6	4157.3	4135.6	4162.7	4236.1	4672.7	5076.9	5055.3	5811.7	6348.8
50°	4897.5	4834.8	4576.6	4617.6	4757.0	4877.0	5588.0	5849.6	5534.0	6244.0	6671.9
52.5°	5398.9	5283.3	5043.4	5154.7	5368.7	5568.6	6559.5	6526.0	5870.1	6569.3	6912.9
55°	5833.4	5751.2	5669.1	5784.7	6104.6	6354.2	7437.0	7032.9	6114.3	6830.8	7018.8
57.5°	6568.2	6548.7	6464.4	6582.2	6970.2	7229.6	8222.7	7426.2	6271.0	6967.0	6894.5
60°	7655.3	7624.0	7467.3	7617.5	8123.2	8530.7	8946.7	7779.6	6306.7	6914.0	6536.9
62.5°	8962.9	8855.9	8721.9	8943.5	9637.2	9816.6	9628.6	7989.2	6173.8	6492.5	5674.5
65°	10184.0	10073.8	10077.1	10543.9	11299.3	11421.4	10424.0	7957.9	5784.7	5436.8	4185.4
67.5°	11118.8	11100.4	11232.3	12143.3	13131.0	13046.7	11135.0	7488.9	4631.7	3524.0	2224.0
70°	11166.4	11202.0	11580.2	13118.0	14120.9	13986.9	11074.5	6087.3	2887.5	1621.0	876.4
71°	10591.5	10831.4	11354.4	13087.8	14179.2	14005.2	10564.4	5098.5	2118.1	1130.4	632.2
72.5°	9025.6	9152.0	10282.4	12317.3	13717.8	13346.0	9270.9	3573.7	1356.2	691.6	363.1
75°	4971.0	5282.2	6885.9	9663.2	10971.8	10645.5	6041.9	1697.7	676.5	378.2	150.2
77.5°	2366.6	2306.1	3359.7	5746.9	7439.2	7421.9	3044.2	754.3	394.4	256.1	75.6
80°	676.5	760.8	1286.0	2731.9	4130.2	4175.6	1169.3	364.2	273.4	199.9	38.9
82.5°	204.2	208.6	472.2	1208.2	2054.3	1936.5	438.7	185.9	196.7	158.9	22.7
85°	35.7	44.3	139.4	425.8	783.5	594.4	110.2	88.6	129.7	104.8	13.0
87.5°	2.2	3.2	46.5	48.6	69.2	40.0	19.5	13.0	28.1	28.1	7.6
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: P458828

CATALOG NUMBER: GALN-SA3C-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0
2.5°	2271.5	2278.0	2273.7	2264.0	2247.8	2228.3	2202.4	2180.8	2162.4	2152.7	2164.5
5°	2285.6	2294.2	2272.6	2224.0	2150.5	2070.5	1979.8	1909.5	1854.4	1837.1	1830.6
7.5°	2307.2	2312.6	2254.2	2146.2	1990.6	1801.4	1636.1	1496.7	1388.6	1356.2	1308.7
10°	2335.3	2332.0	2221.8	2020.8	1747.4	1463.2	1207.1	1016.9	873.2	821.3	817.0
12.5°	2378.5	2361.2	2180.8	1850.1	1457.8	1086.1	769.4	601.9	511.1	480.9	474.4
15°	2432.5	2391.5	2115.9	1650.2	1116.3	701.3	474.4	423.6	411.7	409.6	407.4
17.5°	2496.3	2431.5	2030.5	1404.8	784.6	455.0	396.6	395.5	396.6	394.4	393.4
20°	2582.8	2473.6	1929.0	1114.2	518.7	383.6	378.2	378.2	379.3	378.2	378.2
22.5°	2674.6	2523.3	1803.6	850.5	391.2	364.2	363.1	365.3	367.4	366.3	366.3
25°	2788.1	2588.2	1638.3	582.5	350.1	348.0	349.1	353.4	357.7	358.8	357.7
27.5°	2952.3	2668.1	1461.0	400.9	321.0	323.1	333.9	344.7	351.2	352.3	352.3
30°	3137.1	2756.7	1229.8	325.3	297.2	297.2	310.1	330.7	344.7	346.9	348.0
32.5°	3374.9	2859.4	973.7	292.9	274.5	272.3	284.2	309.1	335.0	342.6	342.6
35°	3668.8	2980.4	724.0	272.3	258.3	252.9	259.4	279.9	313.4	335.0	337.2
37.5°	4013.5	3095.0	529.5	254.0	243.1	235.6	239.9	256.1	283.1	315.5	324.2
40°	4332.3	3196.6	395.5	238.8	228.0	222.6	225.9	233.4	256.1	286.4	291.8
42.5°	4680.3	3275.5	314.5	222.6	212.9	210.7	210.7	214.0	229.1	246.4	247.5
45°	5027.2	3303.5	263.7	203.2	196.7	198.8	197.8	195.6	202.1	199.9	199.9
47.5°	5274.7	3270.0	218.3	184.8	184.8	188.0	182.6	175.1	171.8	158.9	159.9
50°	5444.3	3147.9	179.4	163.2	171.8	176.1	165.3	153.5	141.6	127.5	124.3
52.5°	5514.6	2930.7	147.0	135.1	152.4	157.8	144.8	130.8	112.4	100.5	97.3
55°	5469.2	2662.7	122.1	110.2	128.6	135.1	122.1	105.9	85.4	72.4	70.2
57.5°	5269.3	2342.8	103.7	87.5	102.7	107.0	98.3	81.0	60.5	47.5	47.5
60°	4923.4	2012.2	84.3	69.2	76.7	83.2	74.6	58.4	41.1	29.2	27.0
62.5°	4222.1	1633.9	68.1	54.0	54.0	59.4	51.9	42.1	25.9	15.1	14.0
65°	3048.5	1120.6	54.0	40.0	38.9	38.9	32.4	28.1	15.1	6.5	4.3
67.5°	1656.6	632.2	43.2	30.3	27.0	25.9	20.5	16.2	6.5	1.1	0.0
70°	651.6	243.1	33.5	20.5	17.3	16.2	10.8	7.6	4.3	0.0	0.0
71°	442.0	167.5	29.2	17.3	14.0	11.9	8.6	6.5	3.2	0.0	0.0
72.5°	252.9	103.7	22.7	13.0	10.8	8.6	6.5	4.3	3.2	0.0	0.0
75°	110.2	53.0	14.0	9.7	7.6	5.4	4.3	3.2	1.1	0.0	0.0
77.5°	56.2	29.2	9.7	7.6	4.3	3.2	2.2	1.1	0.0	0.0	0.0
80°	31.3	15.1	6.5	4.3	3.2	2.2	1.1	1.1	0.0	0.0	0.0
82.5°	17.3	8.6	3.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.8	5.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	2.2	0.0	0.0	0.0	0.0	1.1	1.1	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)