

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: P383010

Luminaire Tested: **GLEON-SA3C-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 14658.8 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

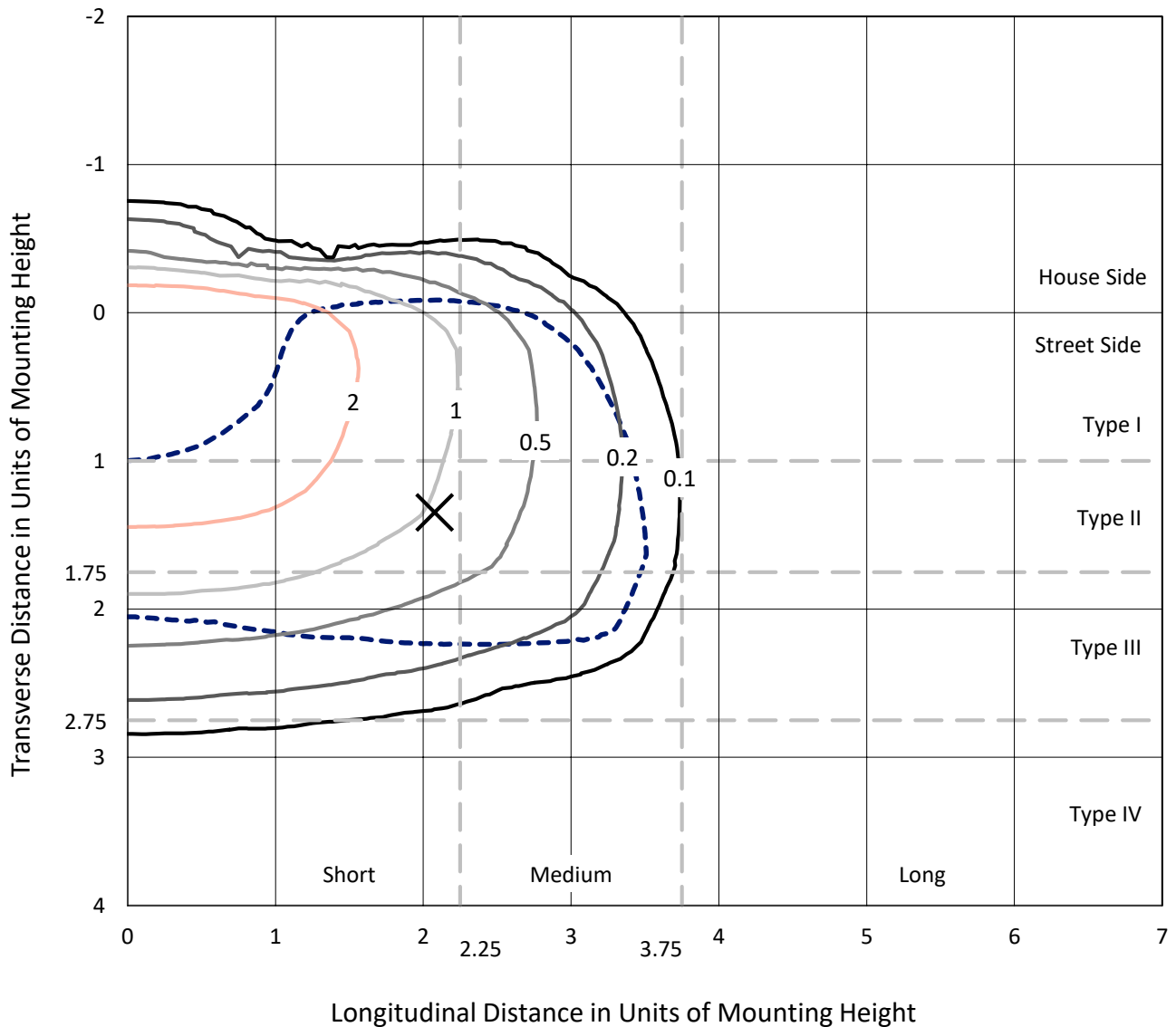
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

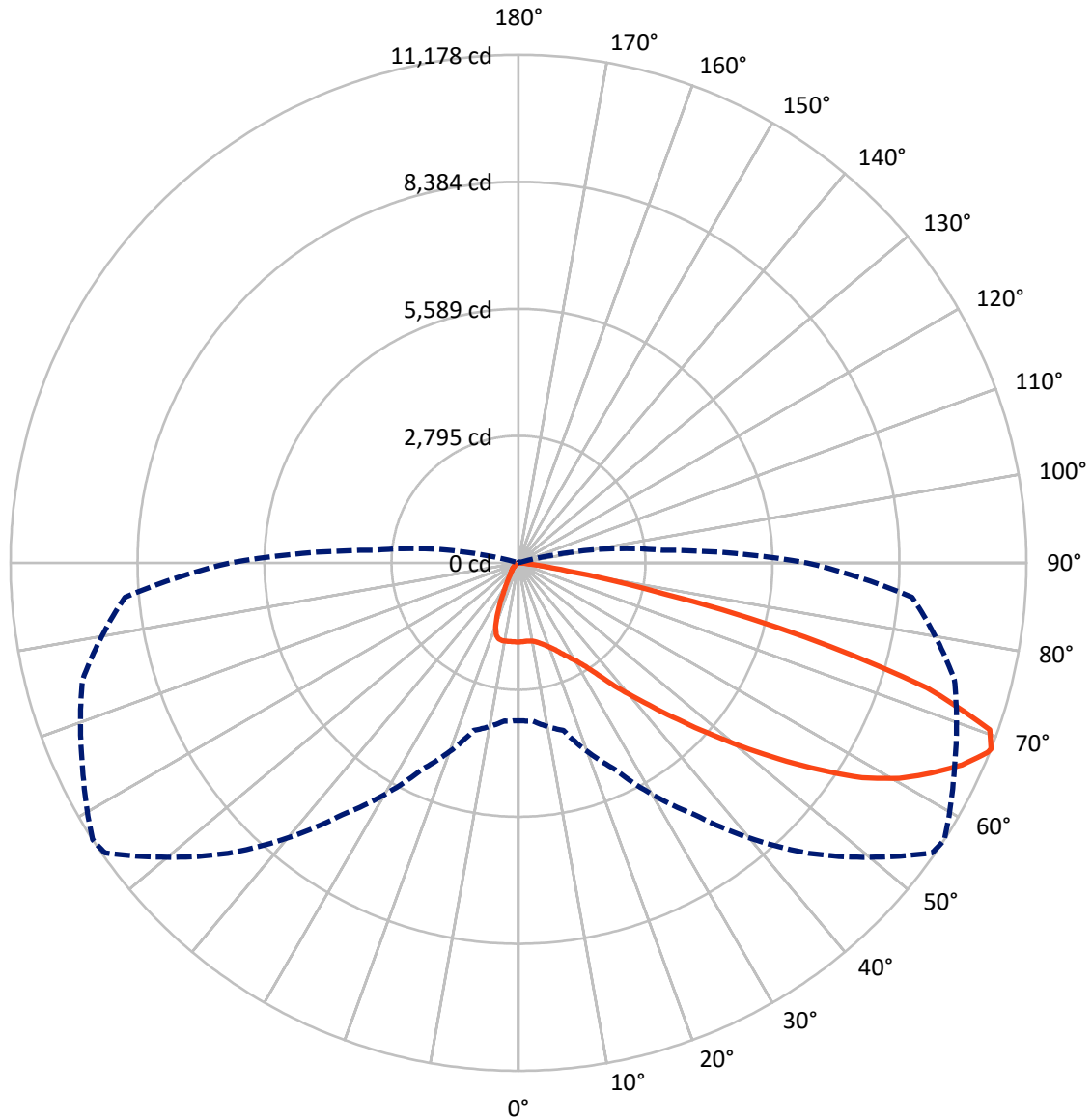
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1607.4	0.0	1607.4
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	13051.4	0.0	13051.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	14658.8	0.0	14658.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	1.1
10°-20°	451.7	3.1
20°-30°	779.3	5.3
30°-40°	1345.0	9.2
40°-50°	2300.6	15.7
50°-60°	3680.7	25.1
60°-70°	4252.7	29.0
70°-80°	1625.0	11.1
80°-90°	60.9	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°	14658.8	100.0
0°-180°	14658.8	100.0

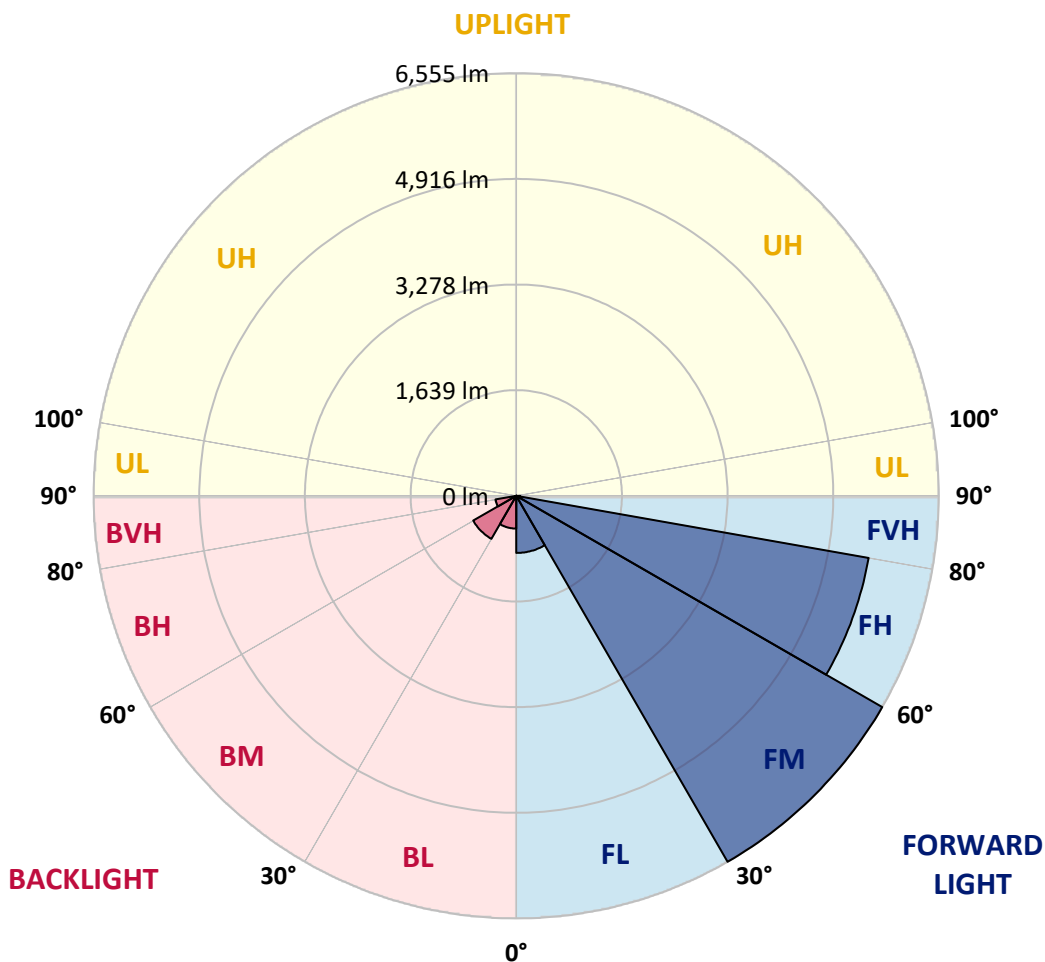


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	886.0	6.0			
FM (30°-60°)	6555.3	44.7			
FH (60°-80°)	5550.3	37.9			G3/7500
FVH (80°-90°)	59.8	0.4			G1/100
BL (0°-30°)	508.0	3.5	B2/1000		
BM (30°-60°)	771.0	5.3	B1/1000		
BH (60°-80°)	327.4	2.2	B1/500		G1/500
BVH (80°-90°)	1.1	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°	57°	65°	75°	85°
0°	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9
2.5°	1701.0	1708.6	1714.1	1717.6	1721.8	1730.7	1733.5	1737.7	1739.8	1739.8	1744.6
5°	1633.7	1642.0	1653.9	1663.6	1682.9	1707.9	1725.9	1732.9	1745.3	1756.4	1762.7
7.5°	1571.3	1581.0	1594.9	1617.8	1651.1	1691.2	1728.7	1738.4	1762.7	1786.2	1798.0
10°	1531.2	1538.7	1556.8	1589.4	1633.0	1689.2	1741.9	1753.6	1795.2	1834.8	1856.9
12.5°	1517.3	1524.2	1542.9	1579.6	1633.7	1699.6	1772.4	1789.7	1850.7	1908.2	1939.4
15°	1537.4	1538.7	1558.9	1593.5	1646.9	1725.2	1822.9	1843.7	1920.7	1995.6	2034.3
17.5°	1615.0	1608.8	1619.2	1634.4	1676.7	1759.2	1876.3	1907.5	2010.1	2098.1	2134.8
20°	1809.1	1809.1	1785.5	1744.0	1744.6	1811.9	1948.4	1983.7	2109.2	2211.1	2244.4
22.5°	2141.1	2134.8	2087.7	1985.9	1892.3	1902.7	2036.5	2082.2	2228.4	2337.3	2348.3
25°	2540.3	2532.7	2459.9	2316.5	2154.3	2049.6	2155.7	2208.3	2370.5	2466.9	2444.0
27.5°	2963.2	2956.9	2884.8	2706.7	2475.9	2283.9	2297.8	2347.7	2515.4	2610.4	2537.5
30°	3372.9	3374.9	3303.5	3120.5	2859.2	2582.6	2478.0	2507.1	2656.1	2752.4	2648.5
32.5°	3762.3	3765.1	3703.5	3499.0	3255.0	2929.9	2727.5	2719.8	2819.7	2914.6	2795.4
35°	4109.6	4116.5	4074.3	3915.6	3657.0	3316.7	3051.2	3033.2	3051.8	3159.3	3020.7
37.5°	4444.4	4448.6	4416.7	4282.9	4066.7	3741.6	3460.1	3434.5	3394.3	3476.8	3318.1
40°	4811.1	4800.6	4763.9	4642.6	4456.9	4210.8	3899.6	3855.2	3785.3	3858.7	3709.0
42.5°	5152.1	5140.3	5146.5	5009.3	4852.6	4693.2	4411.8	4335.6	4294.7	4379.2	4188.6
45°	5578.4	5572.1	5592.9	5473.7	5346.9	5231.1	4998.9	4915.8	4897.7	4996.8	4768.8
47.5°	5999.1	6014.4	6078.8	6028.2	5976.9	5875.1	5620.7	5583.2	5594.3	5714.2	5380.8
50°	6349.8	6367.9	6544.6	6602.8	6677.0	6617.4	6362.3	6339.5	6383.2	6491.2	6039.3
52.5°	6603.6	6640.3	6860.0	7128.2	7398.5	7438.8	7184.4	7163.6	7222.5	7239.1	6548.0
55°	6779.6	6812.1	7061.0	7551.8	8102.1	8275.4	8117.3	8036.9	8025.8	7861.6	7083.2
57.5°	6810.7	6807.3	7165.0	7825.6	8653.8	9100.9	9001.1	8922.1	8694.7	8436.8	7696.6
60°	6634.8	6654.8	7070.0	7920.5	9000.4	9725.5	9733.1	9630.4	9276.3	8996.2	8291.3
62.5°	6092.7	6174.5	6593.9	7671.7	8996.2	9977.1	10269.6	10191.2	9767.7	9454.4	8894.3
65°	5213.8	5242.9	5642.8	6819.1	8388.4	9871.7	10752.7	10723.5	10210.6	9899.4	9204.2
67.5°	3807.4	3744.4	4164.4	5369.7	7101.9	9257.5	11099.2	11136.0	10552.3	9990.8	8874.2
68°	3474.7	3493.4	3820.6	5011.4	6765.0	9040.6	11122.1	11178.2	10586.3	9931.3	8694.0
70°	2071.1	2107.2	2398.9	3450.5	5146.5	7813.1	10875.4	11003.5	10383.9	9316.5	7519.8
72.5°	528.8	571.9	847.7	1544.3	2939.6	5504.9	9180.6	9397.5	9015.6	7558.0	5076.6
75°	217.6	228.7	302.9	508.7	1095.1	2480.1	6051.1	6515.5	6250.0	4524.8	2294.3
77.5°	150.4	158.0	194.8	282.1	474.1	840.8	2966.6	3302.1	2975.0	1544.3	500.4
80°	108.2	114.4	139.4	187.8	272.4	300.1	966.9	1118.0	888.0	339.0	124.1
82.5°	64.5	69.3	104.0	133.8	165.6	143.5	240.5	273.1	257.2	168.4	55.4
85°	31.9	37.4	70.1	95.7	89.4	60.3	73.5	81.8	101.2	102.6	29.8
87.5°	2.0	4.2	40.9	57.6	25.0	13.9	21.5	26.4	36.1	50.6	12.5
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°	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9	1741.9
2.5°	1746.7	1747.4	1742.6	1740.5	1741.9	1733.5	1730.1	1731.5	1731.5	1733.5	1730.1
5°	1764.1	1764.1	1755.7	1744.6	1738.4	1722.4	1712.1	1709.3	1707.2	1705.8	1703.1
7.5°	1801.4	1797.3	1782.8	1758.5	1737.7	1703.1	1676.7	1662.8	1655.9	1653.1	1651.1
10°	1861.8	1854.2	1829.8	1784.8	1737.0	1675.3	1617.8	1576.9	1542.9	1529.0	1520.8
12.5°	1942.8	1931.8	1890.9	1816.1	1732.1	1618.5	1493.7	1373.8	1262.2	1216.4	1193.6
15°	2036.5	2020.5	1956.1	1842.3	1703.7	1490.3	1219.2	1009.2	854.6	796.4	771.5
17.5°	2131.4	2110.6	2012.9	1859.0	1618.5	1224.8	855.3	646.0	542.7	515.0	505.3
20°	2227.1	2196.6	2062.1	1846.5	1425.8	883.0	564.2	472.0	442.2	433.9	431.1
22.5°	2317.9	2270.7	2106.4	1798.0	1129.1	592.7	446.4	417.2	407.6	402.7	401.3
25°	2396.9	2331.0	2145.3	1648.3	799.2	447.8	402.1	392.3	379.9	370.8	371.5
27.5°	2471.0	2391.3	2168.8	1401.5	533.0	382.6	372.2	359.0	336.2	323.0	323.0
30°	2560.5	2471.8	2186.2	1078.5	392.3	338.2	330.0	309.8	278.6	261.3	261.3
32.5°	2694.9	2593.7	2175.1	756.9	325.1	297.3	278.0	250.2	216.3	199.6	198.9
35°	2900.7	2782.3	2096.1	496.3	286.9	258.5	227.4	193.4	163.6	149.7	149.0
37.5°	3178.1	3034.5	1918.6	354.9	257.2	222.5	185.1	147.7	125.5	116.4	115.8
40°	3537.7	3327.8	1665.0	287.7	229.4	187.8	142.8	114.4	99.1	92.2	92.9
42.5°	3969.6	3641.8	1360.6	248.2	202.4	154.5	111.6	90.1	80.4	75.5	74.2
45°	4449.3	3951.6	1041.7	221.1	175.4	124.7	87.4	71.4	63.8	61.0	61.0
47.5°	4976.7	4253.1	762.5	197.6	146.3	96.3	70.1	58.2	52.0	49.9	49.2
50°	5455.7	4462.4	549.6	172.6	119.9	76.2	56.8	48.5	44.3	41.5	41.5
52.5°	5855.0	4528.3	404.8	145.6	97.1	61.0	47.1	41.5	37.4	35.3	35.3
55°	6206.3	4501.2	300.8	119.9	78.3	49.9	40.2	35.3	31.9	29.8	29.8
57.5°	6543.2	4413.9	224.6	97.7	63.1	40.2	34.0	29.8	26.4	25.0	25.0
60°	6818.4	4268.4	167.0	79.0	50.6	32.6	28.4	24.2	21.5	19.4	19.4
62.5°	7041.6	4107.6	122.7	65.1	40.2	25.6	22.2	20.1	15.9	13.9	13.9
65°	7043.0	3840.7	92.2	54.0	31.2	20.1	16.7	15.9	10.4	8.3	7.6
67.5°	6533.5	3311.1	70.7	46.5	24.2	15.3	12.5	13.1	5.6	3.4	2.8
68°	6348.5	3176.7	66.5	45.7	22.9	14.5	11.7	13.1	4.8	2.8	2.0
70°	5352.4	2527.2	53.4	44.3	20.1	11.1	9.7	13.1	4.2	2.0	1.4
72.5°	3423.4	1466.7	39.5	35.3	15.3	8.3	6.2	11.7	4.2	1.4	0.7
75°	1456.9	454.7	27.0	25.0	9.0	6.2	4.2	7.6	2.8	0.7	0.0
77.5°	307.0	102.6	15.9	15.3	6.2	4.2	2.8	2.0	0.7	0.0	0.0
80°	79.0	29.8	8.3	7.6	3.4	2.0	1.4	0.0	0.0	0.0	0.0
82.5°	25.0	11.7	4.8	3.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.5	6.9	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	2.0	0.7	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)