

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: P191960

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9841 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

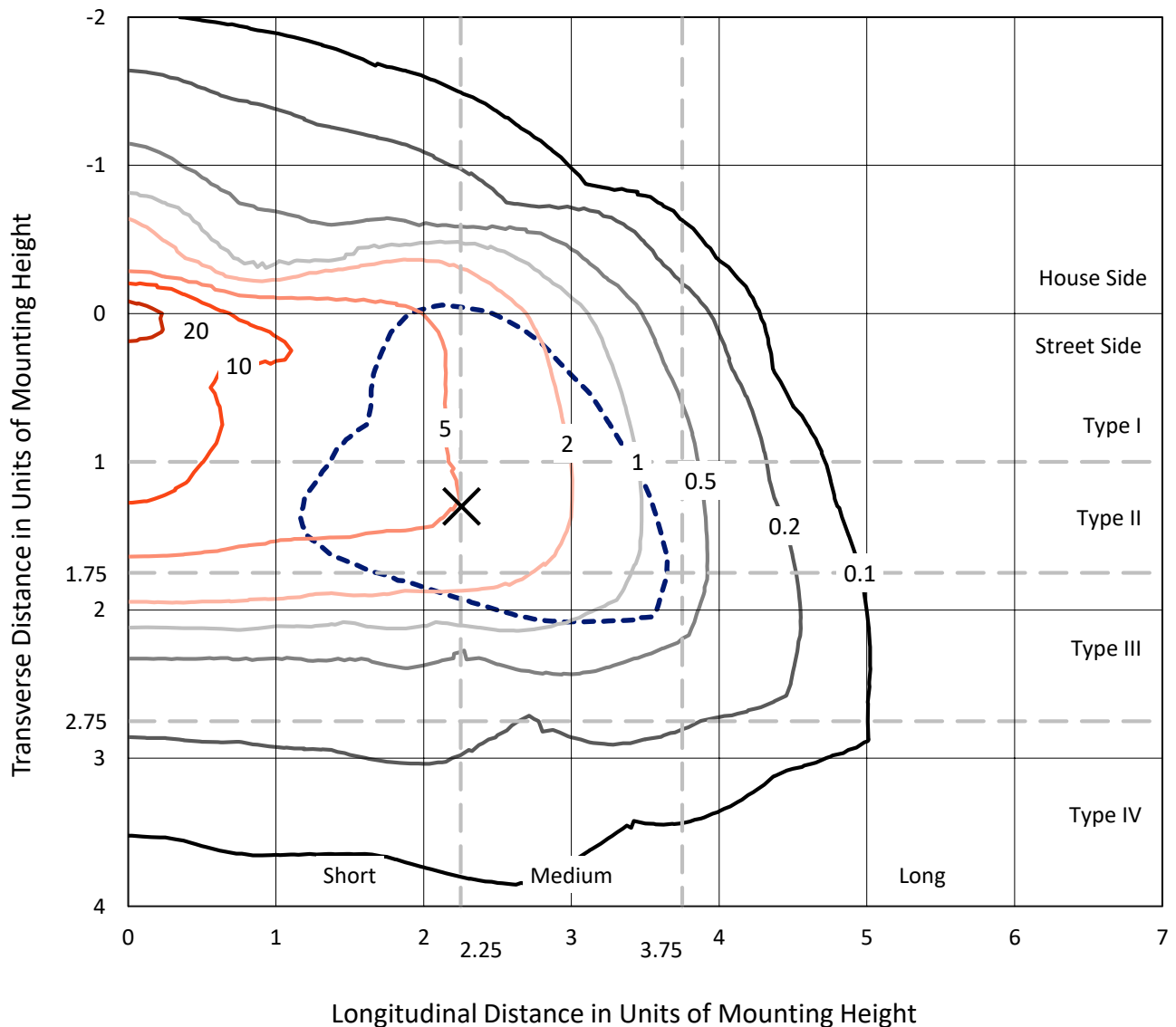
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

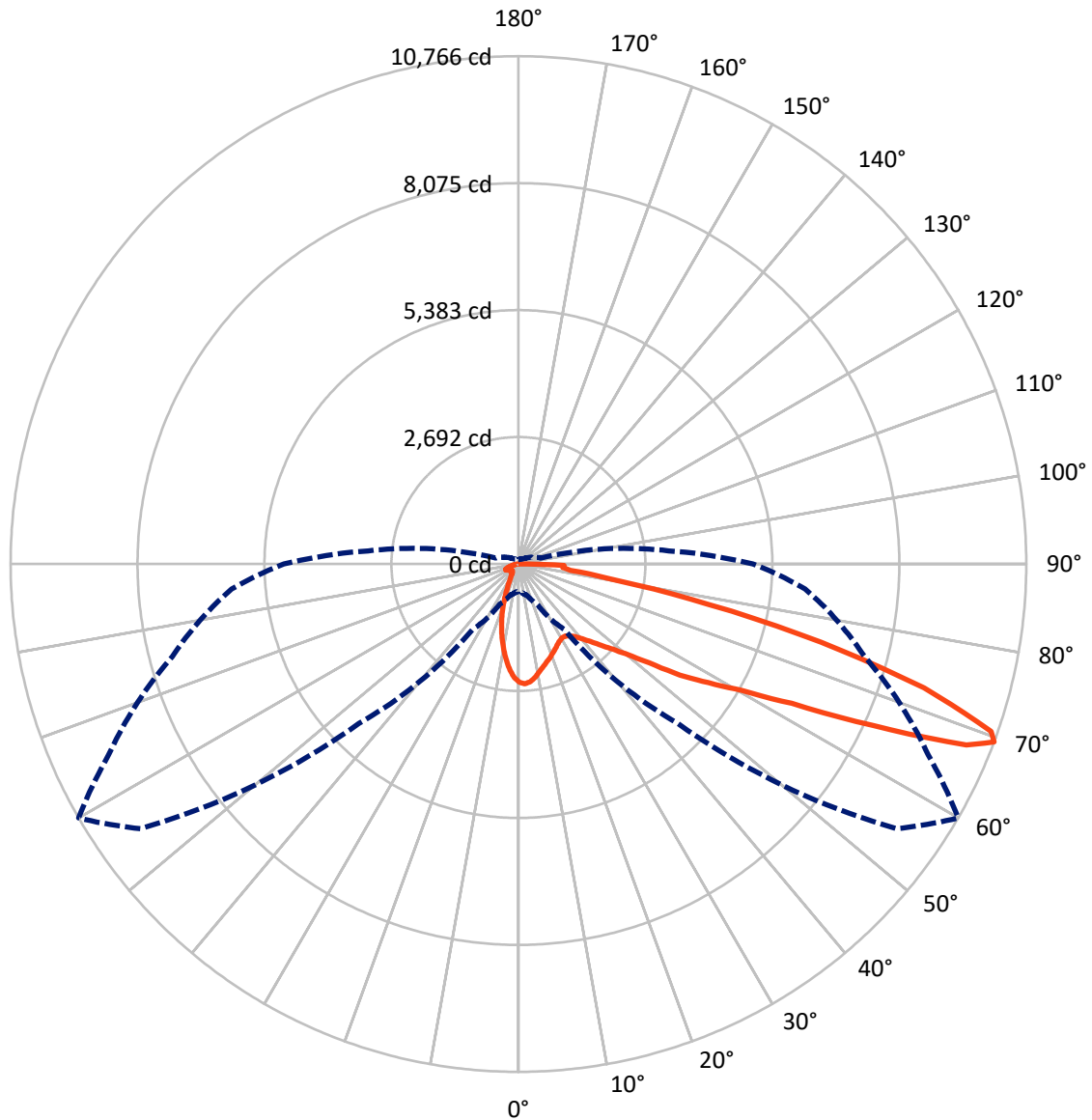
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1400.1	0.0	1400.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	8440.9	0.0	8440.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	9841.0	0.0	9841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.0	2.2
10°-20°	451.7	4.6
20°-30°	575.6	5.8
30°-40°	791.3	8.0
40°-50°	1284.0	13.0
50°-60°	2059.2	20.9
60°-70°	2740.6	27.8
70°-80°	1479.7	15.0
80°-90°	246.9	2.5
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°	9841.0	100.0
0°-180°	9841.0	100.0

Coefficient of Utilization



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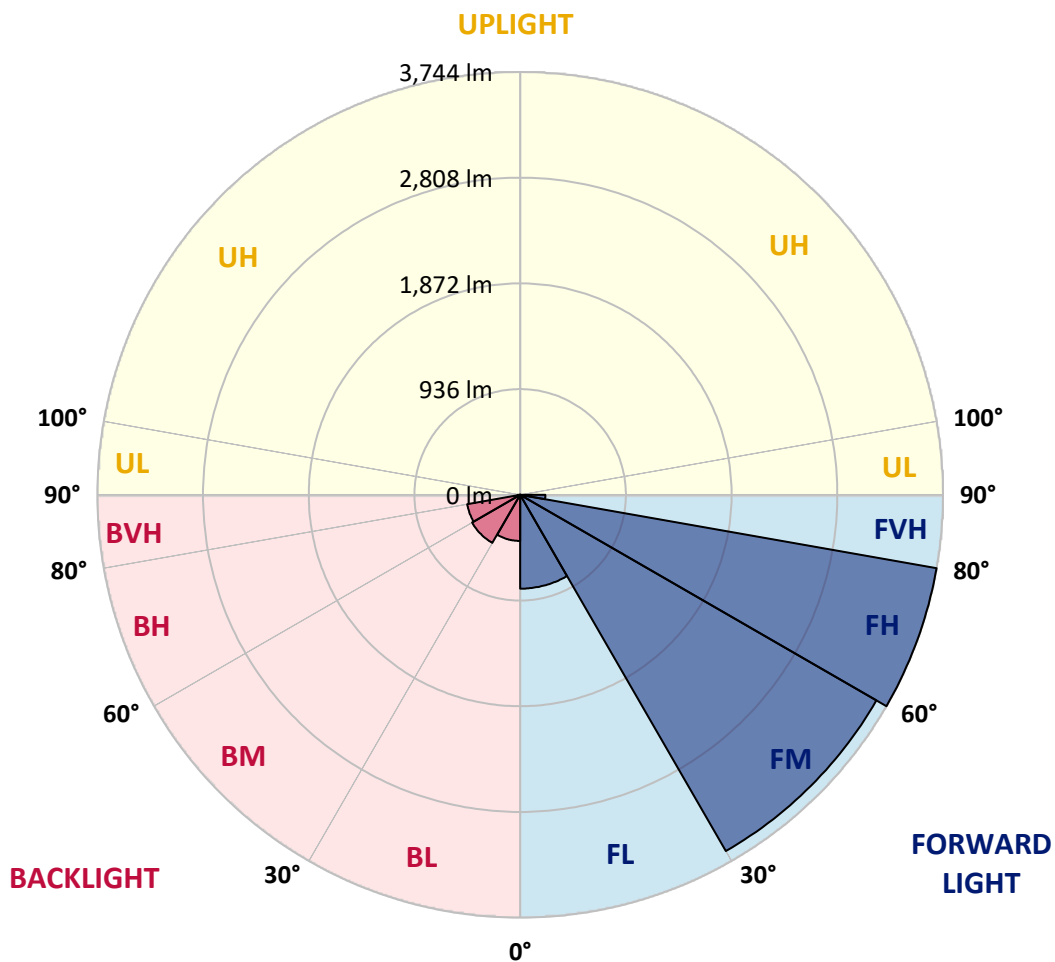
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	830.9	8.4			
FM (30°-60°)	3642.6	37.0			
FH (60°-80°)	3744.3	38.0			G2/5000
FVH (80°-90°)	223.1	2.3			G2/225
BL (0°-30°)	408.4	4.2	B1/500		
BM (30°-60°)	491.9	5.0	B1/1000		
BH (60°-80°)	476.0	4.8	B1/500		G1/500
BVH (80°-90°)	23.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6
2.5°	2559.0	2564.7	2562.3	2560.9	2565.2	2558.5	2544.7	2540.4	2533.8	2518.1	2491.5
5°	2463.0	2480.1	2479.1	2491.9	2513.3	2519.0	2512.9	2513.8	2501.5	2482.0	2437.8
7.5°	2297.0	2304.2	2308.0	2336.0	2375.0	2406.4	2433.0	2441.6	2435.9	2419.2	2362.2
10°	2125.9	2131.6	2140.6	2173.4	2222.9	2266.1	2316.5	2345.5	2357.9	2355.0	2291.3
12.5°	1979.0	1984.7	1996.6	2033.7	2092.6	2145.9	2219.1	2255.2	2284.7	2302.3	2233.8
15°	1847.3	1859.7	1871.1	1913.9	1980.0	2049.8	2132.6	2178.2	2223.8	2263.3	2183.0
17.5°	1744.6	1757.0	1763.7	1802.6	1873.0	1958.6	2055.5	2109.3	2166.3	2231.0	2132.6
20°	1685.2	1690.9	1688.1	1709.9	1773.2	1864.0	1979.0	2041.3	2110.2	2200.5	2082.2
22.5°	1668.6	1669.1	1658.6	1656.2	1697.1	1773.6	1897.2	1972.8	2057.5	2180.6	2038.9
25°	1709.0	1707.6	1679.0	1655.8	1660.0	1704.7	1818.3	1906.3	2013.2	2176.3	2005.6
27.5°	1798.8	1803.1	1760.8	1717.1	1673.8	1672.4	1758.4	1851.1	1977.1	2195.8	1991.4
30°	1924.8	1931.9	1886.8	1831.2	1749.9	1682.8	1735.1	1818.3	1954.8	2236.2	1989.0
32.5°	2062.7	2070.3	2036.1	1977.6	1871.1	1747.5	1751.3	1821.2	1953.8	2292.8	2005.2
35°	2209.6	2218.1	2200.5	2151.1	2032.7	1866.8	1813.1	1867.3	1984.7	2379.3	2048.4
37.5°	2373.6	2386.9	2391.6	2344.6	2218.1	2024.2	1914.4	1954.8	2054.6	2499.6	2127.8
40°	2609.8	2628.4	2627.0	2559.5	2430.6	2236.7	2070.8	2081.2	2163.5	2660.2	2254.7
42.5°	3062.4	3066.2	2947.8	2800.9	2664.5	2460.1	2255.2	2246.7	2313.7	2863.7	2441.6
45°	3638.1	3622.4	3359.0	3075.2	2908.9	2716.8	2495.3	2453.4	2504.3	3111.8	2675.4
47.5°	4115.9	4079.7	3747.0	3355.2	3167.5	2995.9	2777.2	2704.0	2732.0	3393.3	2977.8
50°	4281.8	4254.7	3978.9	3588.2	3412.3	3336.2	3124.2	3020.6	3028.2	3728.9	3331.9
52.5°	4246.1	4242.3	4058.3	3741.7	3641.4	3693.7	3615.8	3475.5	3401.4	4101.6	3714.2
55°	4162.0	4170.0	4103.5	3920.5	3903.4	4038.8	4258.0	4154.4	3923.8	4477.6	4109.2
57.5°	3869.6	3890.5	4036.9	4145.3	4325.0	4526.6	4775.2	4745.7	4486.2	4884.1	4578.9
60°	3117.6	3166.0	3558.7	4101.6	4759.0	5389.4	5500.6	5432.2	5066.1	5388.4	5199.2
62.5°	2184.4	2234.8	2701.6	3551.1	4687.7	6363.9	6797.5	6502.3	5899.0	6131.5	6002.2
65°	1169.4	1193.7	1550.2	2463.9	3957.5	6565.0	8692.8	8243.6	7217.7	7047.5	6689.1
67.5°	645.1	658.4	794.8	1244.1	2534.7	5781.1	9900.3	10239.7	8865.9	7657.4	6564.1
69°	583.3	595.7	685.0	942.2	1696.2	4780.0	9782.4	10766.0	9588.4	7597.1	6102.0
70°	570.5	581.9	662.2	868.5	1372.9	3940.0	9387.4	10631.4	9760.5	7380.8	5698.9
72.5°	513.4	525.8	603.7	780.1	1173.2	1964.3	7435.9	8989.0	8861.6	6399.6	4322.6
75°	478.7	490.1	622.3	763.9	1123.3	1243.1	4902.1	6624.9	6514.1	4476.7	2330.8
77.5°	204.9	203.9	288.6	646.5	1140.0	1203.7	2634.1	4138.7	3776.0	1913.4	669.3
80°	136.9	134.5	136.9	190.2	1045.4	1210.3	1380.0	2100.7	1586.8	487.7	329.9
82.5°	117.9	116.0	120.3	116.0	367.5	1381.5	1173.2	1117.1	754.4	277.1	163.5
85°	79.4	76.1	103.6	104.1	173.5	1227.4	1321.6	943.6	610.4	164.5	80.8
87.5°	38.0	37.1	60.4	73.7	101.7	498.7	1482.7	966.9	615.6	84.1	38.5
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°	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6	2507.6
2.5°	2483.4	2463.9	2444.9	2422.1	2398.3	2371.7	2358.4	2345.1	2341.7	2337.9	2324.6
5°	2414.9	2387.4	2339.8	2287.5	2232.4	2178.7	2137.8	2112.1	2092.6	2082.6	2065.1
7.5°	2326.5	2286.1	2202.9	2112.6	2019.9	1935.3	1862.1	1816.0	1772.2	1751.8	1728.5
10°	2242.4	2182.0	2052.7	1919.6	1786.5	1658.6	1538.3	1453.2	1377.7	1335.3	1305.4
12.5°	2170.1	2087.4	1908.2	1728.0	1545.5	1363.4	1183.2	1041.6	923.2	860.9	829.1
15°	2099.8	1999.9	1770.8	1542.1	1307.8	1060.1	823.4	662.7	564.8	525.8	512.5
17.5°	2036.1	1908.2	1632.9	1354.8	1062.5	763.0	553.3	464.9	427.4	414.5	410.3
20°	1967.1	1815.5	1489.8	1159.0	806.7	533.4	432.1	393.1	377.9	374.1	372.2
22.5°	1900.6	1724.2	1352.9	949.3	579.5	411.7	371.3	355.1	352.7	356.1	356.1
25°	1844.0	1642.4	1205.1	730.2	425.5	346.6	332.3	328.5	337.5	349.9	352.3
27.5°	1801.7	1575.4	1047.7	539.1	338.9	301.4	300.9	307.1	329.4	353.2	358.0
30°	1772.7	1511.7	879.5	388.9	284.3	265.3	272.9	286.2	319.0	352.7	361.8
32.5°	1758.0	1464.6	704.0	300.9	243.4	232.9	245.8	261.9	294.3	325.6	337.5
35°	1769.4	1429.9	538.6	251.0	214.9	206.8	220.1	235.8	254.8	268.1	277.1
37.5°	1812.2	1416.2	406.5	224.9	195.4	187.8	198.2	207.3	214.9	218.7	223.0
40°	1904.4	1430.9	325.6	211.5	184.4	174.9	179.2	182.5	187.3	191.1	193.0
42.5°	2040.3	1475.1	291.9	206.3	178.7	165.0	164.0	165.4	171.6	178.7	180.2
45°	2230.5	1553.1	289.5	209.6	175.9	156.9	152.6	154.5	164.0	174.9	176.8
47.5°	2473.4	1671.9	308.5	219.6	178.3	152.6	145.5	147.8	159.7	174.5	176.8
50°	2767.7	1837.8	340.4	234.4	188.7	153.5	143.1	144.5	156.9	173.0	175.4
52.5°	3115.2	2073.1	375.1	248.6	199.7	159.7	145.0	141.7	153.1	167.3	170.2
55°	3501.7	2375.0	410.7	261.5	205.4	167.3	148.8	137.9	145.9	157.8	160.2
57.5°	3976.1	2797.1	472.5	273.8	209.2	172.6	152.6	134.1	136.9	145.5	147.4
60°	4618.3	3394.2	581.4	294.3	217.7	174.5	152.1	130.7	127.9	132.6	133.6
62.5°	5388.0	4042.6	672.2	319.9	232.0	175.9	149.3	128.4	120.3	120.3	121.2
65°	5844.8	4216.2	621.8	341.3	243.9	174.5	145.9	126.0	114.6	109.3	109.8
67.5°	5457.4	3708.0	532.9	345.6	243.4	167.8	140.7	121.7	108.9	100.8	100.3
69°	4972.0	3199.3	493.0	334.2	232.0	159.3	134.1	116.9	104.6	96.0	95.6
70°	4580.8	2888.9	466.8	321.8	219.6	153.1	128.8	112.7	101.3	93.2	92.2
72.5°	3330.5	1893.0	398.8	276.7	181.1	128.4	111.2	98.9	90.3	85.6	84.6
75°	1664.3	902.7	323.7	224.4	138.8	102.7	91.3	82.7	78.4	77.5	77.0
77.5°	546.7	413.6	231.5	167.3	103.2	80.3	73.7	67.5	66.6	69.4	68.5
80°	300.4	240.5	146.9	110.8	70.4	58.9	58.0	54.7	56.1	60.8	59.9
82.5°	153.1	125.0	90.8	66.6	47.5	42.3	46.1	44.2	46.1	50.4	49.9
85°	75.6	68.5	57.5	40.4	31.4	27.1	32.8	34.2	35.2	38.5	38.5
87.5°	43.7	40.4	30.4	19.0	15.7	14.3	19.0	18.5	21.9	23.8	23.3
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)