

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: P191160

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191160
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-SL3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 10066.9 lumens
Efficiency: N/A
Efficacy: 118.4 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 - G3

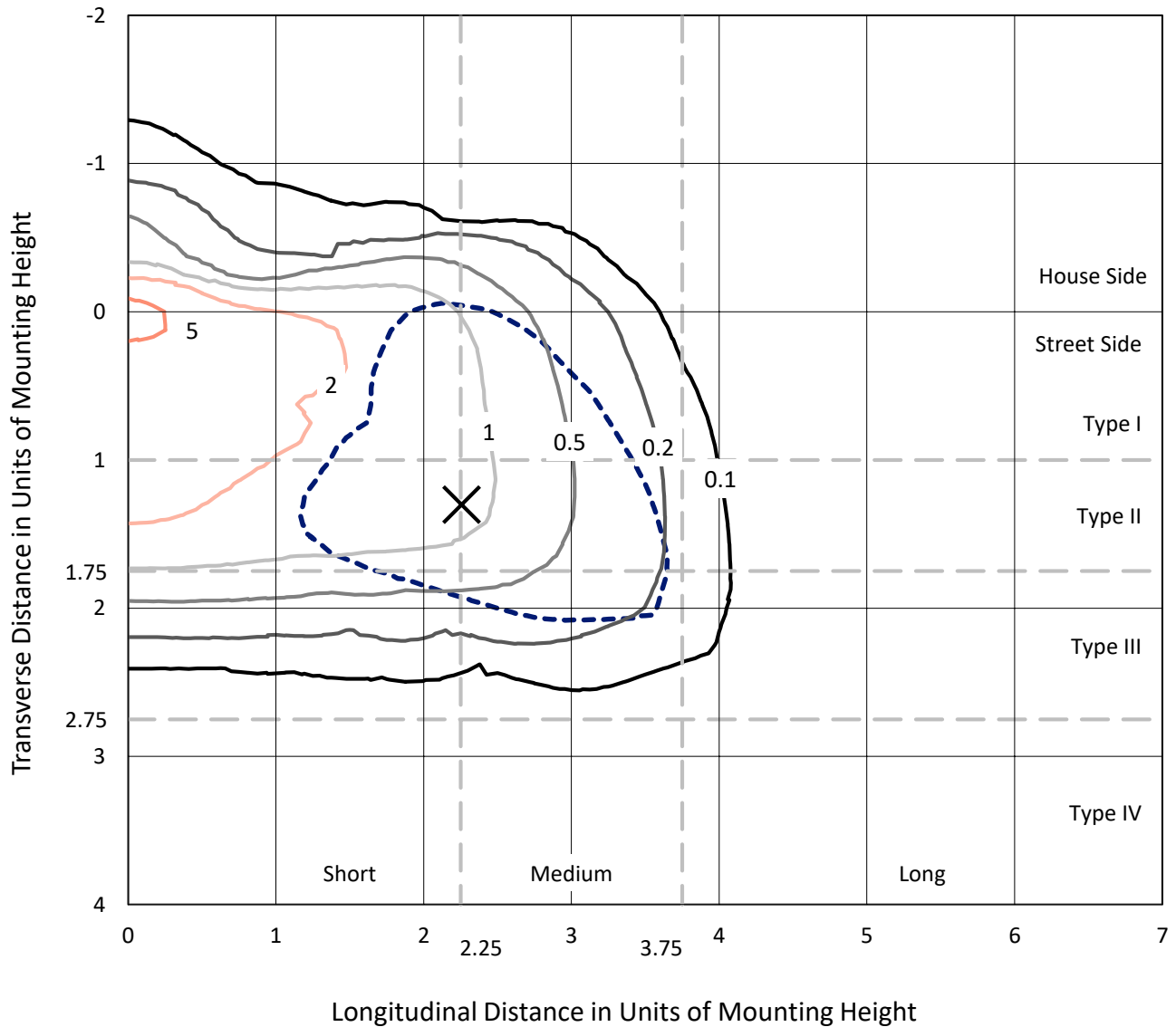
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

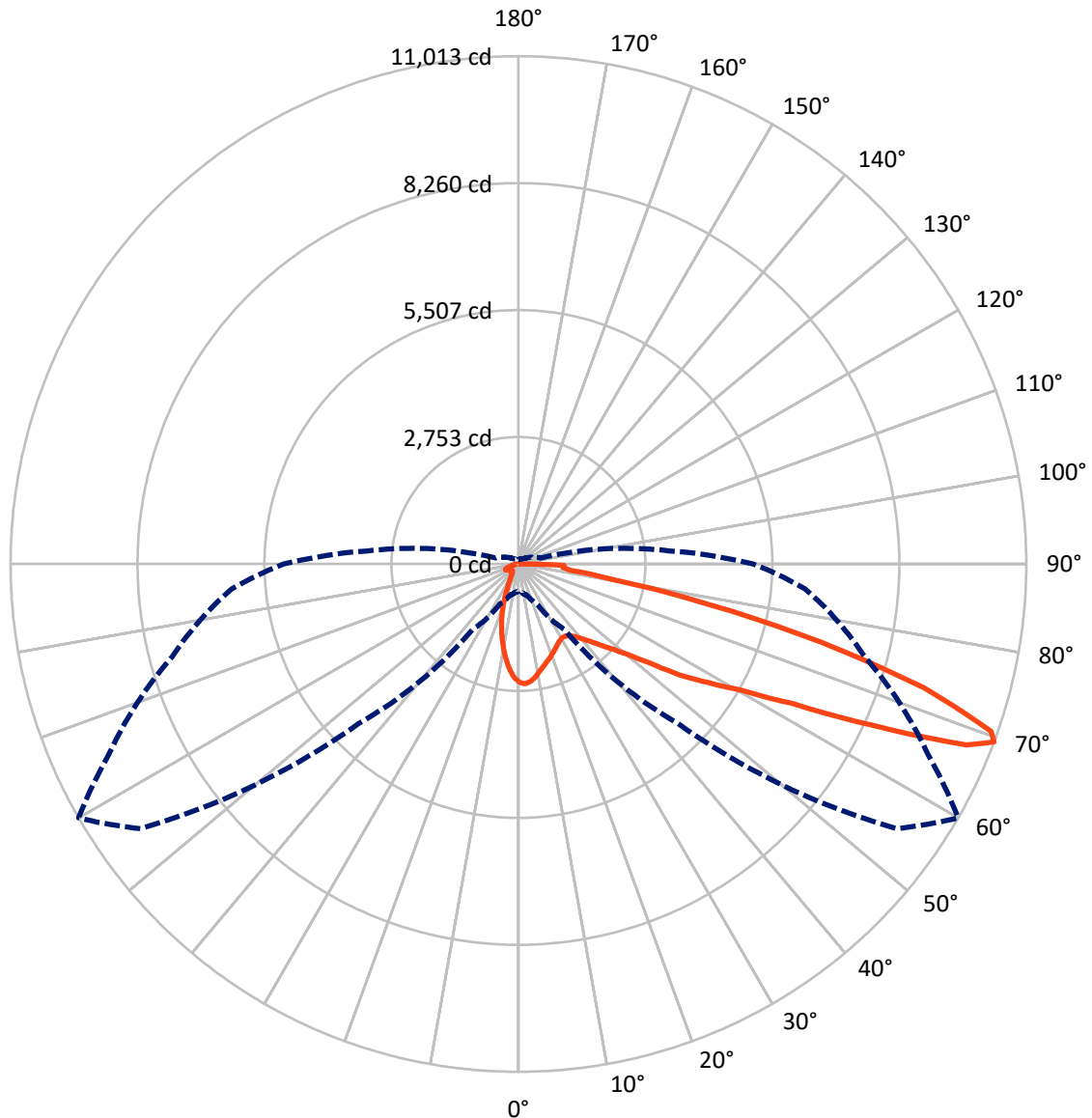
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 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	1432.2	0.0	1432.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	8634.7	0.0	8634.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	10066.9	0.0	10066.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.9	2.2
10°-20°	462.1	4.6
20°-30°	588.8	5.8
30°-40°	809.5	8.0
40°-50°	1313.4	13.0
50°-60°	2106.4	20.9
60°-70°	2803.5	27.8
70°-80°	1513.7	15.0
80°-90°	252.6	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°	10066.9	100.0
0°-180°	10066.9	100.0

Coefficient of Utilization



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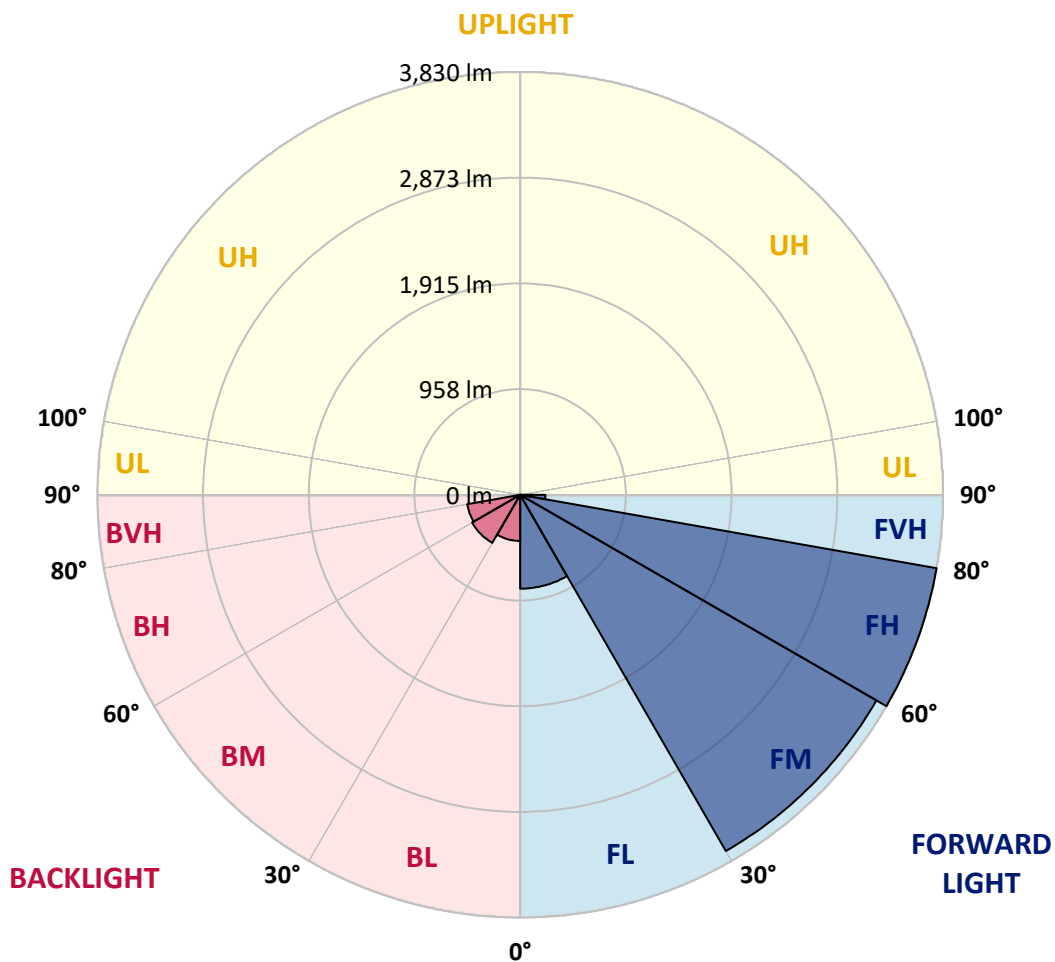
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	850.0	8.4			
FM	(30°-60°)	3726.2	37.0			
FH	(60°-80°)	3830.2	38.0			G2/5000
FVH	(80°-90°)	228.2	2.3			G3/500
BL	(0°-30°)	417.8	4.2	B1/500		
BM	(30°-60°)	503.2	5.0	B1/1000		
BH	(60°-80°)	486.9	4.8	B1/500		G1/500
BVH	(80°-90°)	24.3	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2565.2	2565.2	2565.2	2565.2	2565.2	2565.2	2565.2	2565.2	2565.2	2565.2	2565.2
2.5°	2617.7	2623.6	2621.1	2619.7	2624.1	2617.2	2603.1	2598.7	2592.0	2575.9	2548.7
5°	2519.5	2537.0	2536.0	2549.1	2571.0	2576.8	2570.6	2571.5	2558.9	2539.0	2493.7
7.5°	2349.7	2357.1	2361.0	2389.6	2429.5	2461.6	2488.8	2497.6	2491.8	2474.7	2416.4
10°	2174.7	2180.5	2189.7	2223.3	2273.9	2318.1	2369.7	2399.3	2412.0	2409.0	2343.9
12.5°	2024.4	2030.3	2042.4	2080.4	2140.6	2195.2	2270.0	2307.0	2337.1	2355.1	2285.1
15°	1889.7	1902.4	1914.0	1957.8	2025.4	2096.8	2181.5	2228.2	2274.8	2315.2	2233.1
17.5°	1784.6	1797.3	1804.2	1844.0	1916.0	2003.6	2102.7	2157.7	2216.0	2282.2	2181.5
20°	1723.9	1729.7	1726.8	1749.1	1813.9	1906.8	2024.4	2088.1	2158.6	2251.0	2130.0
22.5°	1706.9	1707.4	1696.7	1694.2	1736.0	1814.3	1940.7	2018.1	2104.7	2230.6	2085.7
25°	1748.2	1746.8	1717.5	1693.8	1698.1	1743.8	1860.0	1950.1	2059.4	2226.2	2051.6
27.5°	1840.1	1844.5	1801.2	1756.5	1712.2	1710.8	1798.8	1893.6	2022.5	2246.2	2037.1
30°	1969.0	1976.2	1930.1	1873.2	1790.1	1721.4	1774.9	1860.0	1999.7	2287.5	2034.6
32.5°	2110.0	2117.8	2082.8	2023.0	1914.0	1787.6	1791.5	1863.0	1998.6	2345.4	2051.2
35°	2260.3	2269.0	2251.0	2200.5	2079.4	1909.6	1854.7	1910.2	2030.3	2433.9	2095.4
37.5°	2428.1	2441.7	2446.5	2398.4	2269.0	2070.7	1958.3	1999.7	2101.8	2557.0	2176.6
40°	2669.7	2688.7	2687.3	2618.2	2486.4	2288.0	2118.3	2129.0	2213.2	2721.3	2306.4
42.5°	3132.7	3136.6	3015.5	2865.2	2725.7	2516.6	2307.0	2298.3	2366.8	2929.4	2497.6
45°	3721.6	3705.5	3436.1	3145.8	2975.7	2779.2	2552.6	2509.7	2561.8	3183.2	2736.8
47.5°	4210.4	4173.3	3833.0	3432.2	3240.2	3064.7	2840.9	2766.1	2794.7	3471.2	3046.1
50°	4380.1	4352.3	4070.2	3670.6	3490.6	3412.8	3195.9	3089.9	3097.7	3814.5	3408.4
52.5°	4343.6	4339.7	4151.4	3827.6	3725.0	3778.5	3698.8	3555.3	3479.5	4195.7	3799.4
55°	4257.5	4265.7	4197.7	4010.5	3993.0	4131.5	4355.7	4249.7	4013.9	4580.4	4203.5
57.5°	3958.4	3979.8	4129.6	4240.4	4424.3	4630.5	4884.8	4854.6	4589.2	4996.2	4684.0
60°	3189.2	3238.7	3640.4	4195.7	4868.2	5513.1	5626.8	5556.9	5182.4	5512.1	5318.5
62.5°	2234.5	2286.1	2763.6	3632.6	4795.3	6510.0	6953.5	6651.5	6034.4	6272.2	6140.0
65°	1196.2	1221.1	1585.8	2520.4	4048.3	6715.7	8892.3	8432.8	7383.4	7209.2	6842.6
67.5°	659.9	673.5	813.0	1272.7	2592.9	5913.8	10127.5	10474.7	9069.4	7833.1	6714.8
69°	596.7	609.4	700.7	963.8	1735.1	4889.7	10006.9	11013.1	9808.5	7771.5	6242.0
70°	583.6	595.3	677.4	888.4	1404.4	4030.4	9602.8	10875.4	9984.5	7550.2	5829.7
72.5°	525.2	537.9	617.6	798.0	1200.1	2009.4	7606.6	9195.3	9065.0	6546.5	4421.8
75°	489.7	501.3	636.6	781.4	1149.1	1271.6	5014.6	6776.9	6663.6	4579.4	2384.3
77.5°	209.6	208.6	295.2	661.3	1166.2	1231.3	2694.6	4233.7	3862.7	1957.3	684.7
80°	140.0	137.6	140.0	194.6	1069.4	1238.1	1411.7	2148.9	1623.2	498.9	337.5
82.5°	120.6	118.7	123.1	118.7	375.9	1413.2	1200.1	1142.7	771.7	283.5	167.3
85°	81.2	77.8	106.0	106.5	177.5	1255.6	1351.9	965.3	624.4	168.3	82.7
87.5°	38.9	38.0	61.8	75.4	104.0	510.1	1516.7	989.1	629.7	86.0	39.4
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°	2565.2	2565.2	2565.2	2565.2	2565.2	2565.2	2565.2	2565.2	2565.2	2565.2	2565.2
2.5°	2540.4	2520.4	2501.0	2477.7	2453.3	2426.1	2412.5	2398.9	2395.4	2391.6	2378.0
5°	2470.3	2442.2	2393.5	2340.0	2283.6	2228.7	2186.9	2160.6	2140.6	2130.4	2112.5
7.5°	2379.9	2338.6	2253.5	2161.1	2066.3	1979.7	1904.8	1857.7	1812.9	1792.0	1768.2
10°	2293.9	2232.1	2099.8	1963.7	1827.5	1696.7	1573.6	1486.6	1409.3	1365.9	1335.4
12.5°	2219.9	2135.3	1952.0	1767.7	1581.0	1394.7	1210.4	1065.5	944.4	880.7	848.1
15°	2148.0	2045.8	1811.4	1577.5	1337.8	1084.4	842.3	677.9	577.8	537.9	524.3
17.5°	2082.8	1952.0	1670.4	1385.9	1086.9	780.5	566.0	475.6	437.2	424.0	419.7
20°	2012.2	1857.2	1524.0	1185.6	825.2	545.6	442.0	402.1	386.6	382.7	380.7
22.5°	1944.2	1763.8	1384.0	971.1	592.8	421.1	379.8	363.2	360.8	364.3	364.3
25°	1886.3	1680.1	1232.8	747.0	435.3	354.6	339.9	336.0	345.2	357.9	360.4
27.5°	1843.1	1611.6	1071.7	551.5	346.7	308.3	307.8	314.1	337.0	361.3	366.2
30°	1813.4	1546.4	899.7	397.8	290.8	271.4	279.2	292.8	326.3	360.8	370.1
32.5°	1798.3	1498.2	720.2	307.8	249.0	238.2	251.4	267.9	301.1	333.1	345.2
35°	1810.0	1462.7	551.0	256.8	219.8	211.5	225.2	241.2	260.6	274.3	283.5
37.5°	1853.8	1448.7	415.8	230.1	199.9	192.1	202.7	212.1	219.8	223.7	228.1
40°	1948.1	1463.7	333.1	216.4	188.6	178.9	183.3	186.7	191.6	195.5	197.4
42.5°	2087.1	1509.0	298.6	211.0	182.8	168.8	167.8	169.2	175.5	182.8	184.3
45°	2281.7	1588.7	296.1	214.4	179.9	160.5	156.1	158.0	167.8	178.9	180.9
47.5°	2530.2	1710.3	315.6	224.6	182.4	156.1	148.8	151.2	163.4	178.5	180.9
50°	2831.2	1880.0	348.2	239.8	193.0	157.0	146.4	147.8	160.5	177.0	179.4
52.5°	3186.7	2120.7	383.7	254.3	204.3	163.4	148.3	145.0	156.6	171.1	174.1
55°	3582.1	2429.5	420.1	267.5	210.1	171.1	152.2	141.1	149.2	161.4	163.9
57.5°	4067.4	2861.3	483.3	280.1	214.0	176.6	156.1	137.2	140.0	148.8	150.8
60°	4724.3	3472.1	594.7	301.1	222.7	178.5	155.6	133.7	130.8	135.6	136.7
62.5°	5511.7	4135.4	687.6	327.2	237.3	179.9	152.7	131.3	123.1	123.1	124.0
65°	5978.9	4313.0	636.1	349.1	249.5	178.5	149.2	128.9	117.2	111.8	112.3
67.5°	5582.7	3793.1	545.1	353.5	249.0	171.7	143.9	124.5	111.4	103.1	102.6
69°	5086.1	3272.7	504.3	341.9	237.3	163.0	137.2	119.6	107.0	98.2	97.8
70°	4685.9	2955.2	477.5	329.2	224.6	156.6	131.8	115.3	103.6	95.3	94.3
72.5°	3406.9	1936.4	408.0	283.1	185.3	131.3	113.8	101.2	92.4	87.6	86.5
75°	1702.5	923.4	331.1	229.6	142.0	105.1	93.4	84.6	80.2	79.3	78.8
77.5°	559.2	423.1	236.8	171.1	105.6	82.1	75.4	69.0	68.1	71.0	70.1
80°	307.3	246.0	150.3	113.3	72.0	60.3	59.3	56.0	57.4	62.2	61.3
82.5°	156.6	127.9	92.9	68.1	48.6	43.3	47.2	45.2	47.2	51.6	51.0
85°	77.3	70.1	58.8	41.3	32.1	27.7	33.6	35.0	36.0	39.4	39.4
87.5°	44.7	41.3	31.1	19.4	16.1	14.6	19.4	18.9	22.4	24.3	23.8
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)