

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: P191090

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12204.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 113
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

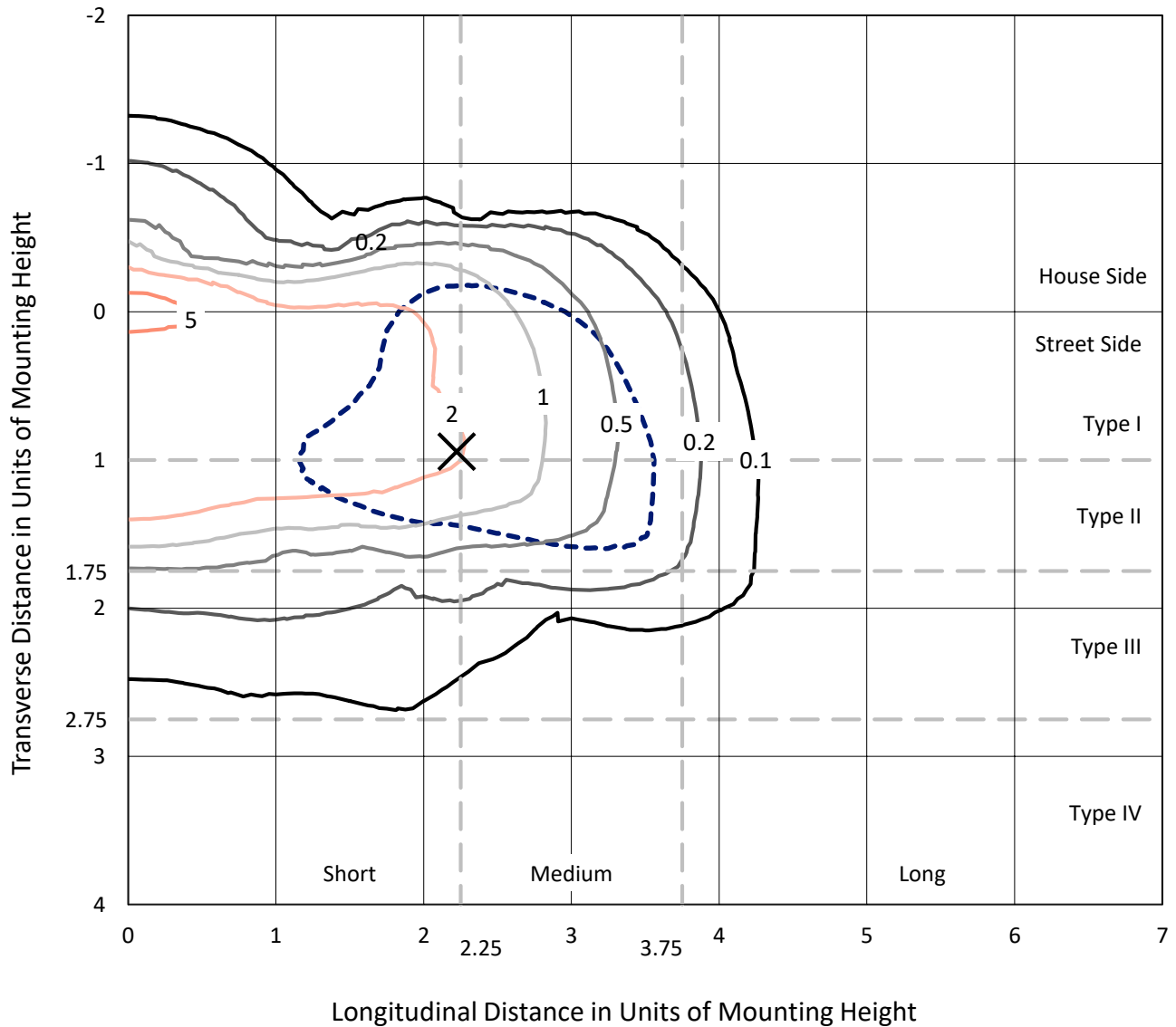


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

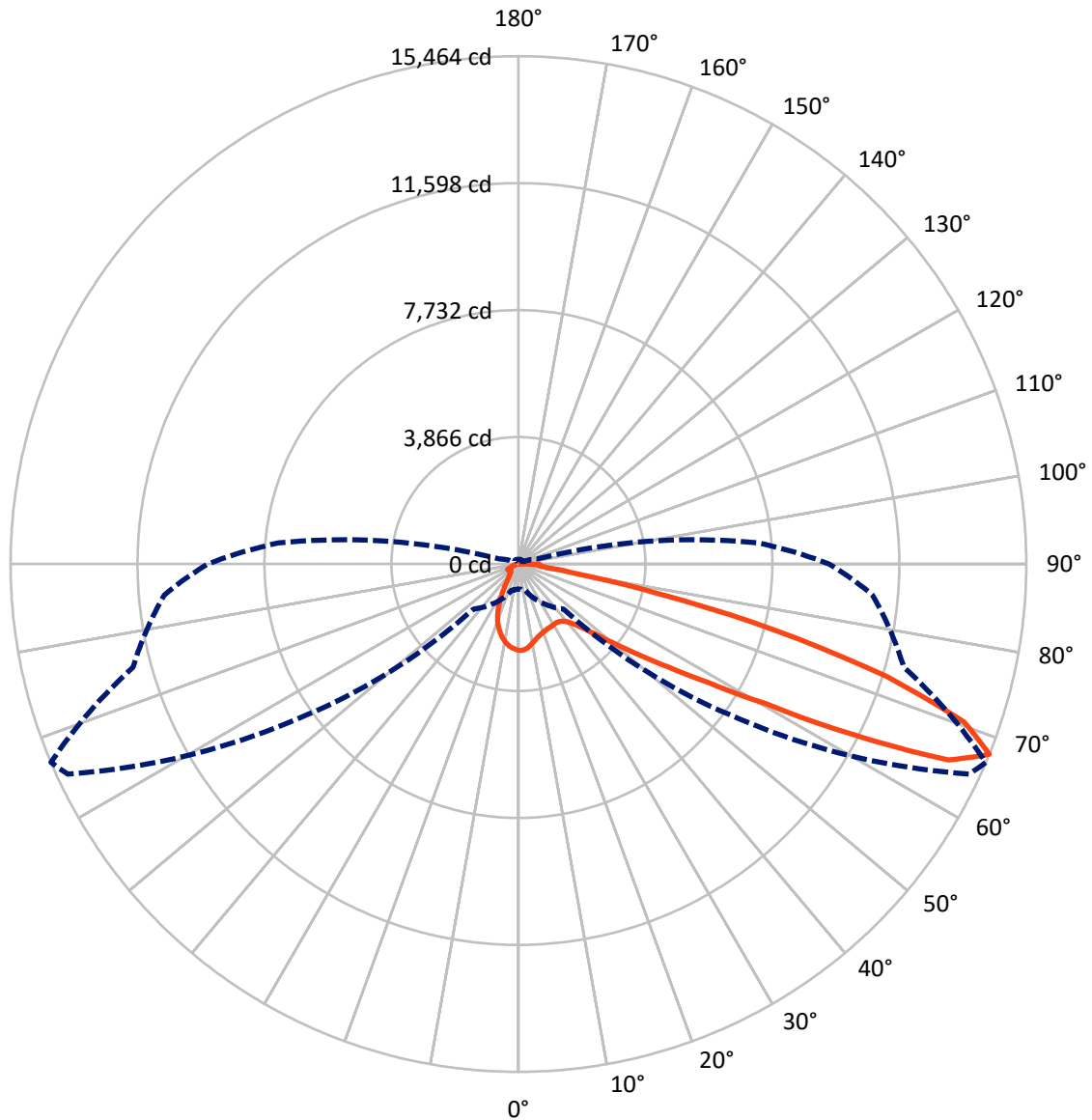


Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2022.2	0.0	2022.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	10182.6	0.0	10182.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	12204.8	0.0	12204.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	1.8
10°-20°	519.7	4.3
20°-30°	704.4	5.8
30°-40°	1001.4	8.2
40°-50°	1675.4	13.7
50°-60°	2650.5	21.7
60°-70°	3376.5	27.7
70°-80°	1768.6	14.5
80°-90°	283.7	2.3
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°	12204.8	100.0
0°-180°	12204.8	100.0



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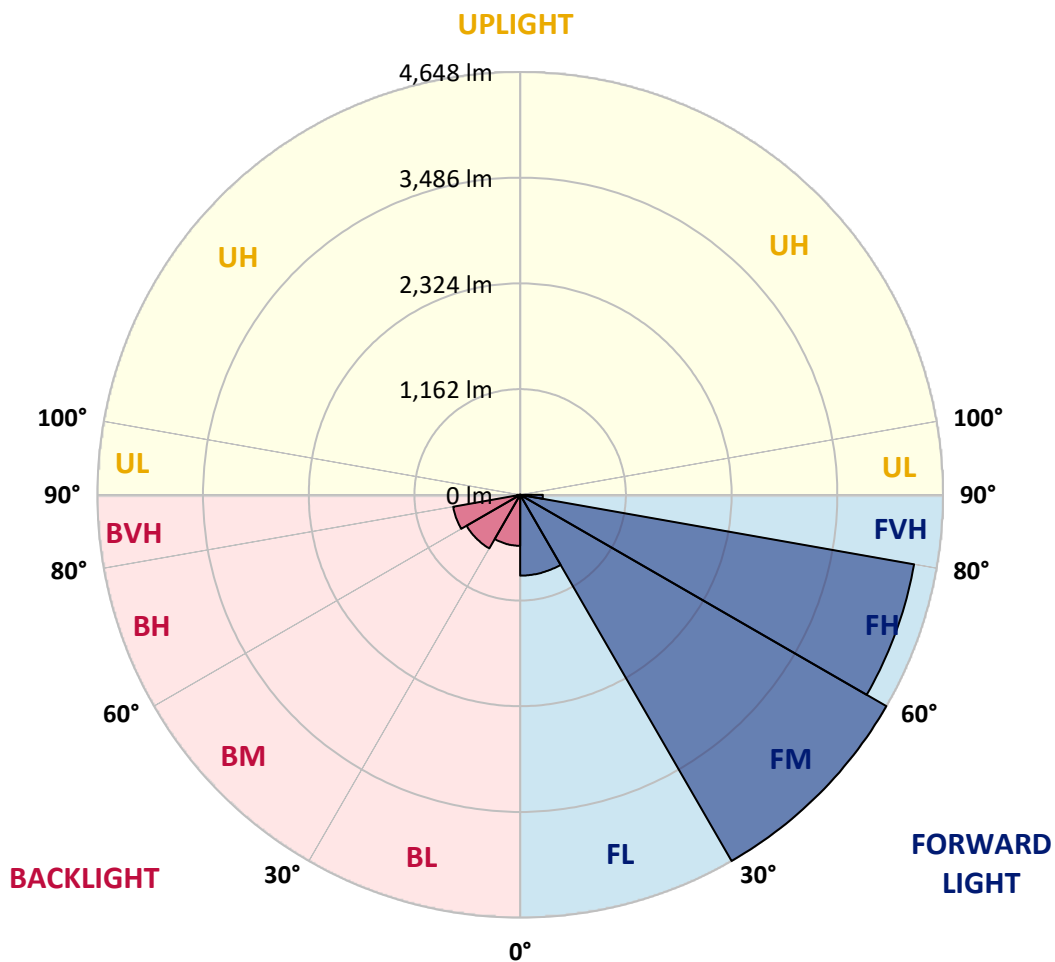
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	888.2	7.3			
FM (30°-60°)	4647.8	38.1			
FH (60°-80°)	4397.2	36.0			G2/5000
FVH (80°-90°)	249.4	2.0			G3/500
BL (0°-30°)	560.5	4.6	B2/1000		
BM (30°-60°)	679.5	5.6	B1/1000		
BH (60°-80°)	748.0	6.1	B2/1000		G2/1000
BVH (80°-90°)	34.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2632.6	2632.6	2632.6	2632.6	2632.6	2632.6	2632.6	2632.6	2632.6	2632.6	2632.6
2.5°	2524.2	2528.4	2541.6	2550.1	2588.0	2604.2	2615.7	2627.1	2629.0	2634.4	2629.0
5°	2259.4	2268.4	2293.1	2320.8	2394.2	2452.0	2512.8	2576.0	2587.5	2628.4	2639.7
7.5°	2054.2	2051.7	2072.2	2105.3	2180.5	2260.6	2367.1	2492.9	2517.6	2609.6	2654.3
10°	1904.3	1902.5	1924.2	1958.4	2030.0	2105.9	2226.2	2398.4	2433.3	2580.2	2668.1
12.5°	1793.5	1794.2	1815.8	1853.7	1926.5	2003.0	2125.2	2307.0	2351.5	2545.9	2682.5
15°	1720.1	1724.9	1742.4	1782.7	1853.7	1930.2	2050.0	2238.3	2288.2	2518.8	2698.7
17.5°	1695.4	1703.3	1709.2	1738.8	1799.6	1876.0	1993.3	2187.8	2240.8	2500.1	2713.2
20°	1718.4	1727.4	1715.9	1726.1	1764.7	1832.1	1948.8	2148.1	2202.2	2479.1	2715.0
22.5°	1816.5	1824.8	1791.2	1761.6	1759.3	1800.2	1912.1	2116.8	2172.7	2463.5	2715.6
25°	1989.1	1994.5	1938.0	1869.3	1802.5	1788.7	1886.2	2095.1	2154.6	2449.6	2704.2
27.5°	2201.0	2205.3	2140.2	2039.2	1904.9	1815.8	1877.2	2082.4	2144.4	2437.6	2684.9
30°	2458.7	2478.5	2391.2	2263.6	2068.0	1895.8	1895.2	2075.9	2133.0	2417.1	2647.0
32.5°	2722.3	2730.7	2670.5	2541.1	2287.7	2036.7	1945.9	2080.7	2130.0	2392.4	2598.8
35°	2989.5	3000.3	2961.1	2857.0	2588.0	2243.1	2044.6	2108.9	2148.6	2384.0	2565.2
37.5°	3335.5	3350.0	3295.8	3175.4	2953.4	2523.0	2208.9	2179.9	2205.8	2408.0	2554.9
40°	3882.6	3876.0	3717.7	3538.4	3353.0	2881.1	2443.5	2300.3	2315.3	2485.7	2586.2
42.5°	4519.4	4503.1	4230.5	3948.8	3792.4	3314.5	2754.1	2509.2	2506.1	2638.6	2696.4
45°	5027.4	5014.1	4768.6	4421.3	4296.1	3808.0	3155.6	2820.4	2798.1	2881.1	2899.8
47.5°	5302.5	5303.0	5161.6	4878.1	4875.1	4435.1	3671.4	3270.5	3232.0	3271.1	3251.2
50°	5206.1	5218.8	5203.8	5113.4	5403.5	5257.3	4344.9	3898.3	3820.6	3859.2	3782.7
52.5°	4740.3	4756.5	4845.6	4984.0	5625.6	6250.9	5334.3	4678.3	4588.0	4574.1	4489.3
55°	3914.5	3934.4	4116.1	4492.3	5440.9	6918.4	6895.5	5672.6	5528.7	5398.1	5362.0
57.5°	2698.1	2731.3	3023.7	3582.3	4843.2	7120.0	8754.7	7090.0	6797.4	6341.3	6349.7
60°	1520.9	1559.4	1904.3	2411.7	3637.1	6900.9	10169.1	9236.8	8619.3	7445.6	7508.3
62.5°	967.2	1008.7	1270.5	1675.6	2182.4	5721.4	10748.7	12221.4	11437.2	8807.1	8868.5
65°	783.1	801.1	924.4	1383.1	1584.8	3446.8	10308.7	14680.1	14387.6	10535.1	10248.5
67.5°	764.3	770.4	834.2	1160.9	1519.7	1937.4	8222.7	15139.9	15464.3	12148.7	10823.3
70°	755.3	776.4	940.1	1108.1	1455.4	1634.1	4941.3	13879.6	14391.8	12570.5	10058.4
72.5°	366.5	365.3	473.1	1002.1	1639.5	1694.8	2538.7	11230.2	11744.2	10890.7	8265.4
75°	295.5	270.3	258.2	367.1	1576.3	1750.3	1617.8	7727.4	8099.3	7301.8	5080.9
77.5°	280.5	250.4	229.3	230.0	666.2	1856.1	1370.4	4276.9	4385.2	3298.2	1392.1
80°	232.3	204.6	189.6	213.7	322.6	1767.7	1481.7	1935.6	1776.1	810.1	463.4
82.5°	161.3	146.9	142.6	179.3	258.2	1259.7	1723.2	1040.0	872.1	405.7	285.9
85°	102.9	87.9	97.5	130.6	201.0	581.4	1774.9	810.7	644.6	257.6	161.3
87.5°	47.6	38.6	48.2	72.2	131.2	200.4	1688.8	910.6	663.9	136.1	101.7
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°	2632.6	2632.6	2632.6	2632.6	2632.6	2632.6	2632.6	2632.6	2632.6	2632.6	2632.6
2.5°	2633.8	2622.3	2613.3	2596.5	2577.7	2559.7	2543.5	2523.0	2517.0	2511.5	2520.0
5°	2642.2	2630.7	2597.7	2545.9	2488.7	2435.1	2381.5	2335.8	2307.6	2291.9	2300.9
7.5°	2654.9	2638.6	2570.0	2474.8	2371.9	2278.0	2181.1	2103.5	2046.3	2019.2	2027.1
10°	2666.2	2634.9	2523.0	2380.4	2229.9	2090.3	1937.4	1811.0	1717.1	1667.7	1679.8
12.5°	2671.0	2621.1	2457.4	2262.4	2055.9	1851.3	1626.2	1437.2	1302.4	1253.1	1242.9
15°	2675.8	2605.5	2385.2	2128.1	1845.9	1556.4	1241.0	1014.8	902.8	878.1	872.7
17.5°	2677.1	2578.3	2303.4	1982.6	1599.8	1205.5	848.6	704.8	705.4	745.1	749.9
20°	2664.5	2538.0	2204.0	1801.4	1304.9	833.6	582.6	557.9	648.9	748.1	760.2
22.5°	2635.5	2484.5	2091.5	1590.1	967.2	548.9	450.8	477.9	595.3	716.8	730.7
25°	2598.8	2419.5	1958.4	1345.2	640.4	392.4	378.0	411.1	490.5	571.7	579.6
27.5°	2548.9	2342.5	1809.2	1064.7	415.9	323.2	332.9	355.1	387.6	423.7	427.3
30°	2484.5	2250.4	1649.7	776.4	314.1	290.7	304.5	316.6	330.4	350.9	352.7
32.5°	2410.5	2161.9	1486.0	536.2	278.7	273.8	284.7	290.7	301.6	314.1	315.4
35°	2348.5	2077.6	1316.2	379.2	263.6	261.2	268.4	270.9	281.1	294.9	296.1
37.5°	2313.0	2009.0	1141.1	305.8	253.4	249.8	254.0	254.0	268.4	288.9	292.0
40°	2315.3	1971.1	966.0	276.3	245.0	240.2	240.7	240.7	259.4	281.7	283.5
42.5°	2381.0	1980.7	810.7	264.8	238.3	232.9	230.0	231.7	247.3	261.8	263.0
45°	2535.1	2048.8	665.0	257.6	231.7	230.0	223.3	222.7	228.7	235.3	235.3
47.5°	2787.8	2183.0	566.3	252.8	226.3	225.7	217.9	210.0	209.4	211.9	211.9
50°	3198.9	2414.1	500.1	247.3	222.7	217.9	208.9	196.8	192.6	194.4	194.4
52.5°	3815.2	2826.3	474.9	240.2	214.8	207.0	196.8	184.7	181.2	181.8	181.8
55°	4623.5	3459.5	471.3	231.7	206.4	193.8	185.4	176.4	172.2	173.3	173.3
57.5°	5611.2	4335.3	535.6	218.5	195.0	180.6	175.7	169.7	166.7	168.5	168.0
60°	6811.9	5481.2	794.4	204.6	183.5	168.5	168.5	163.7	161.3	163.1	162.5
62.5°	8195.0	6797.4	1117.1	194.4	171.5	158.9	161.3	158.9	156.5	157.7	157.1
65°	9421.6	7655.2	1046.1	186.6	159.5	149.9	154.1	152.8	151.1	152.3	151.7
67.5°	9457.1	7337.3	587.4	178.2	148.0	140.9	146.9	146.3	145.1	146.3	145.7
70°	8440.0	6195.6	331.0	162.5	136.1	130.0	138.4	137.8	136.7	139.0	138.4
72.5°	6761.9	4496.0	241.9	143.2	124.0	118.6	128.2	127.6	127.6	131.2	129.4
75°	3891.0	2313.6	193.2	122.8	111.3	107.1	115.6	116.2	117.3	122.1	118.6
77.5°	1109.2	721.1	157.7	104.1	95.6	93.9	102.3	103.5	104.1	109.6	104.8
80°	412.2	332.3	130.0	87.3	78.3	78.9	86.6	88.5	89.1	94.5	88.5
82.5°	263.0	219.1	105.4	67.4	61.4	60.8	70.4	72.8	72.8	73.4	69.8
85°	153.4	131.2	79.5	48.8	43.4	41.5	52.4	56.6	54.7	53.6	51.1
87.5°	102.9	90.3	48.8	27.1	23.4	22.3	30.7	33.7	32.5	30.7	28.8
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)