

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: P193801

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-SL4-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15457 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 191  
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

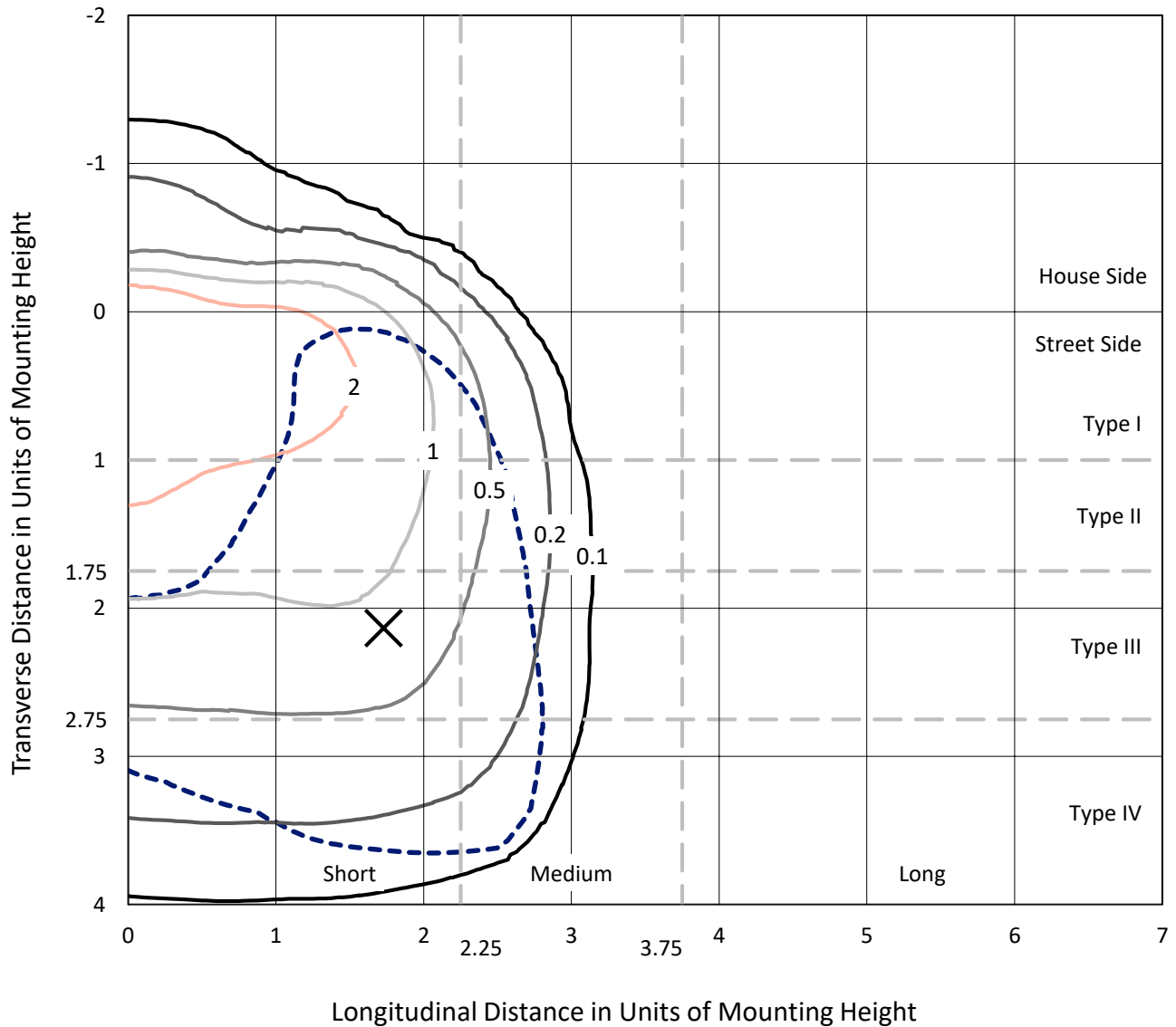


REPORT NUMBER: P193801

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-1200

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

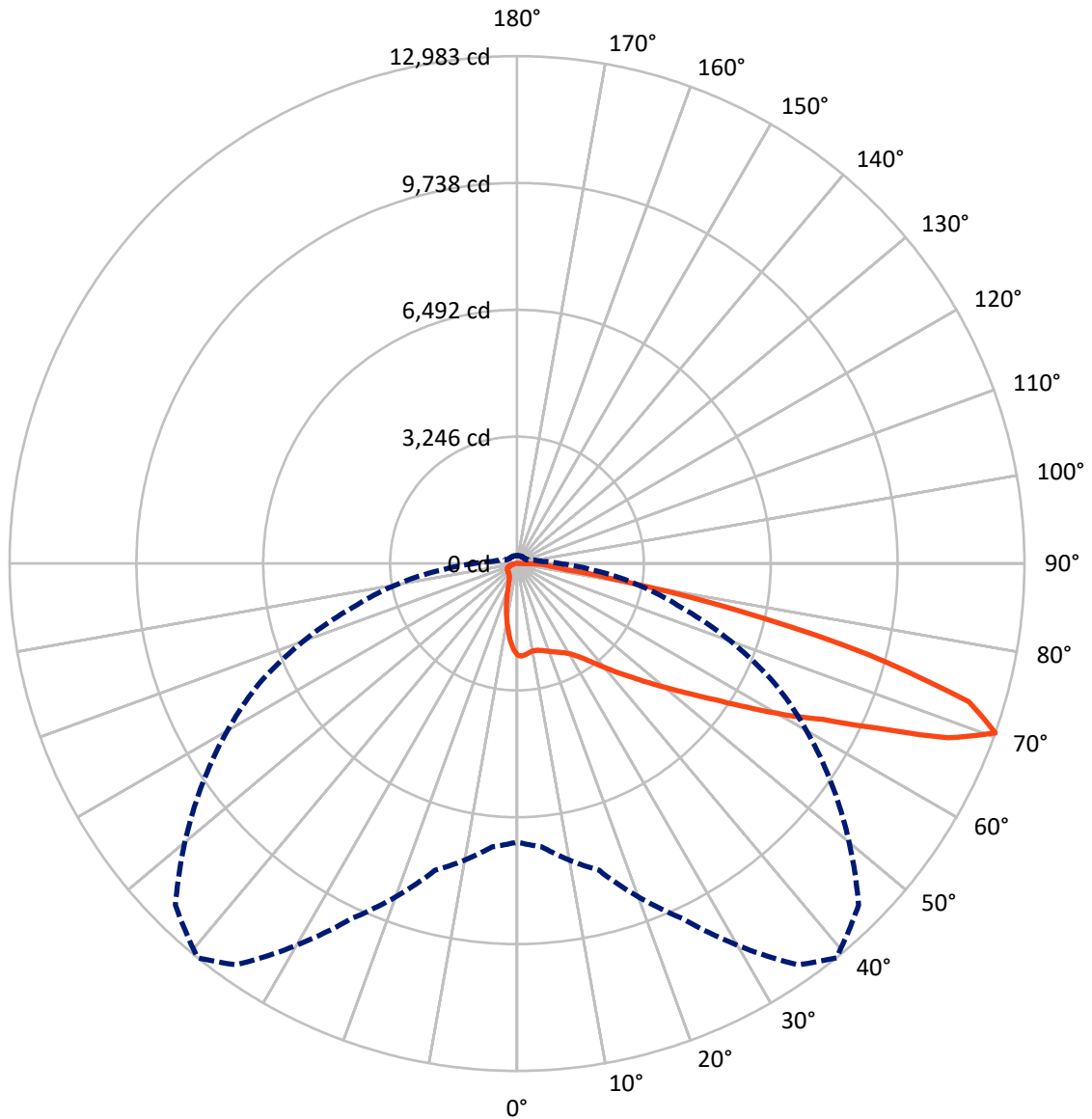


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193801

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-1200

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P193801

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1758.0	0.0	1758.0
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	13699.0	0.0	13699.0
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	15457.0	0.0	15457.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.4	1.3
10°-20°	503.4	3.3
20°-30°	783.8	5.1
30°-40°	1221.0	7.9
40°-50°	2049.8	13.3
50°-60°	3256.3	21.1
60°-70°	4343.6	28.1
70°-80°	2623.0	17.0
80°-90°	474.7	3.1
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°	15457.0	100.0
0°-180°	15457.0	100.0



REPORT NUMBER: P193801

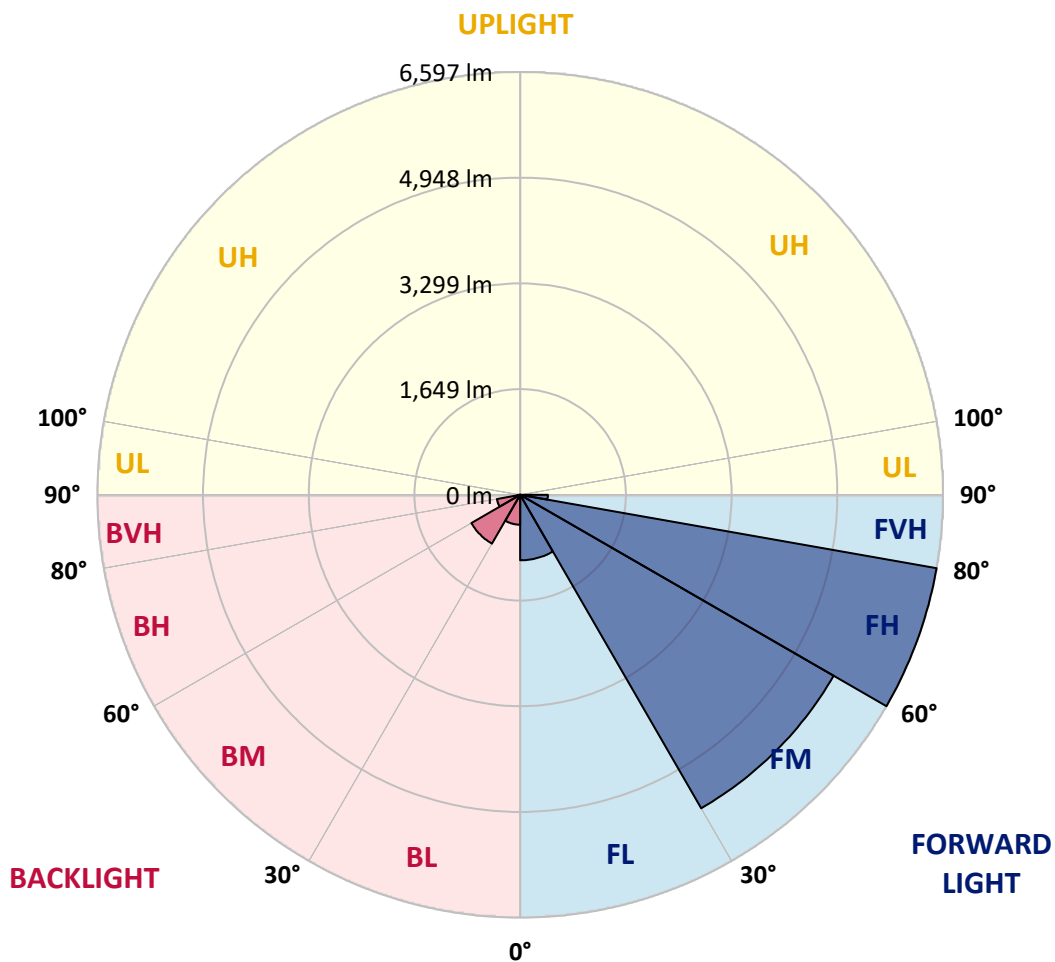
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-1200

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1022.2	6.6			
FM (30°-60°)	5647.4	36.5			
FH (60°-80°)	6597.5	42.7			G3/7500
FVH (80°-90°)	431.9	2.8			G3/500
BL (0°-30°)	466.4	3.0	B1/500		
BM (30°-60°)	879.8	5.7	B1/1000		
BH (60°-80°)	369.1	2.4	B1/500		G1/500
BVH (80°-90°)	42.8	0.3			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 IV Short





REPORT NUMBER: P193801

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6
2.5°	2392.2	2391.4	2385.1	2380.4	2376.5	2374.9	2378.0	2366.3	2356.0	2343.5	2330.1
5°	2374.1	2373.3	2363.1	2353.7	2344.3	2341.1	2340.3	2319.1	2306.5	2287.7	2262.5
7.5°	2354.5	2350.5	2337.2	2321.5	2305.0	2297.1	2289.2	2261.7	2247.6	2228.7	2199.7
10°	2334.0	2329.3	2316.7	2301.0	2285.3	2273.5	2260.2	2233.4	2218.5	2204.4	2170.6
12.5°	2312.8	2308.9	2305.7	2298.7	2287.7	2277.5	2267.2	2244.4	2228.7	2212.2	2172.9
15°	2309.7	2308.1	2315.2	2319.9	2313.6	2307.3	2296.3	2276.7	2260.2	2243.7	2192.6
17.5°	2334.8	2334.0	2352.1	2364.7	2361.5	2350.5	2335.6	2313.6	2300.2	2286.1	2222.4
20°	2389.8	2393.8	2415.8	2432.3	2416.6	2400.8	2376.5	2345.8	2338.8	2332.5	2253.1
22.5°	2493.6	2497.5	2513.2	2519.5	2478.6	2455.8	2422.1	2382.8	2378.0	2382.8	2290.0
25°	2655.5	2651.5	2649.2	2625.6	2550.9	2515.6	2472.4	2431.5	2433.8	2455.1	2341.9
27.5°	2870.0	2848.8	2815.8	2745.0	2626.4	2587.1	2534.4	2496.7	2511.6	2552.5	2419.7
30°	3092.4	3068.8	2992.6	2877.1	2725.4	2682.2	2623.2	2580.8	2620.1	2684.5	2523.4
32.5°	3298.3	3295.2	3183.6	3035.0	2862.1	2824.4	2765.5	2717.5	2781.2	2879.4	2679.0
35°	3523.1	3530.1	3396.5	3218.1	3046.8	3007.5	2965.1	2928.9	3013.8	3149.0	2904.6
37.5°	3763.5	3777.7	3619.7	3418.5	3257.4	3240.9	3215.8	3200.1	3331.3	3518.3	3219.7
40°	4085.0	4070.8	3851.6	3644.9	3516.0	3515.2	3507.3	3526.2	3744.7	4000.9	3624.4
42.5°	4429.2	4387.5	4097.5	3887.7	3799.7	3826.4	3842.1	3919.1	4242.1	4587.1	4118.0
45°	4800.1	4706.6	4352.9	4144.7	4114.8	4171.4	4224.8	4392.2	4827.6	5254.3	4658.6
47.5°	5096.4	5006.0	4617.0	4414.2	4479.5	4565.1	4668.1	4932.9	5483.0	5943.5	5192.3
50°	5329.8	5270.8	4883.4	4728.6	4881.0	5013.1	5181.3	5545.1	6165.2	6614.7	5686.6
52.5°	5556.1	5512.1	5152.2	5050.8	5352.6	5534.9	5763.6	6202.1	6864.6	7274.8	6102.3
55°	5760.4	5729.0	5441.4	5452.4	5907.4	6144.7	6432.4	6950.2	7626.9	7863.4	6454.4
57.5°	5990.7	5950.6	5771.4	5956.1	6620.2	6928.2	7302.3	7791.1	8342.0	8386.8	6722.3
60°	6222.5	6188.0	6137.7	6537.7	7525.5	7849.3	8203.7	8606.1	9067.4	8793.1	6706.6
62.5°	6423.7	6427.6	6516.4	7148.3	8412.0	8786.8	9219.1	9616.7	9723.6	8863.8	6210.7
65°	6764.8	6826.9	7091.7	8012.7	9659.9	10161.3	10691.8	10628.1	9905.1	8202.9	5147.5
67.5°	7170.3	7279.5	7816.3	9164.8	11237.2	11902.8	12107.9	10856.8	9178.2	6668.1	3669.2
70°	7129.4	7279.5	8129.1	10023.8	12537.0	12983.4	12361.0	9825.8	7288.2	4356.1	1949.0
72.5°	6331.0	6545.5	7491.7	9630.1	12127.6	12088.3	10731.1	7325.1	4330.2	1749.3	761.5
75°	4825.3	5042.2	5856.3	7608.0	9585.3	9255.2	7614.3	4046.5	1643.3	694.7	480.2
77.5°	2775.7	2943.9	3572.6	4665.7	6081.1	5742.4	4238.2	1799.6	800.0	484.1	374.9
80°	1549.7	1643.3	2025.2	2367.0	2980.0	2731.7	1896.3	1118.3	597.3	351.3	289.2
82.5°	1225.2	1308.5	1637.8	1493.2	1361.1	1255.8	1089.2	995.7	477.0	221.6	172.9
85°	1070.4	1149.7	1386.3	1175.7	929.7	852.7	884.9	980.0	370.9	133.6	147.7
87.5°	991.8	1097.9	1235.4	906.1	723.8	641.3	816.5	1074.3	119.5	83.3	59.7
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: P193801

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-8030-1200

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6	2346.6
2.5°	2318.3	2305.7	2285.3	2267.2	2238.9	2224.0	2207.5	2195.7	2186.3	2178.4	2191.0
5°	2246.8	2223.2	2180.0	2133.6	2078.6	2035.4	1999.3	1965.5	1941.9	1926.2	1937.2
7.5°	2179.2	2140.7	2073.1	1989.0	1894.7	1814.6	1748.6	1690.4	1650.3	1624.4	1634.6
10°	2140.7	2092.8	1988.3	1856.2	1717.1	1592.2	1488.4	1398.9	1336.8	1301.4	1306.9
12.5°	2131.3	2069.2	1924.6	1743.1	1552.9	1379.2	1233.0	1108.9	1021.6	976.1	977.6
15°	2138.4	2059.0	1864.9	1634.6	1394.1	1174.9	992.6	841.7	740.3	688.4	687.6
17.5°	2150.1	2051.1	1802.0	1517.5	1233.0	978.4	774.9	627.1	537.5	495.9	492.7
20°	2162.7	2038.6	1731.3	1391.0	1065.6	796.1	606.7	491.2	434.6	411.8	410.2
22.5°	2180.8	2027.5	1658.2	1257.4	901.4	648.3	499.0	421.2	391.4	379.6	378.0
25°	2209.9	2022.0	1580.4	1118.3	753.7	542.3	434.6	386.6	369.4	361.5	360.7
27.5°	2258.6	2029.9	1507.3	983.1	633.4	470.7	398.4	369.4	356.8	349.7	348.9
30°	2321.5	2054.3	1430.3	855.0	539.9	422.0	376.4	357.6	347.4	340.3	340.3
32.5°	2426.0	2095.1	1349.3	744.2	473.1	388.2	359.9	347.4	338.7	333.2	332.4
35°	2580.0	2172.1	1273.9	652.3	425.2	363.9	345.8	336.4	330.1	326.9	326.9
37.5°	2804.0	2294.0	1207.1	586.3	396.1	347.4	332.4	325.4	321.4	321.4	321.4
40°	3105.0	2462.1	1152.9	542.3	379.6	335.6	322.2	316.7	314.3	315.1	315.1
42.5°	3476.7	2680.6	1116.7	511.6	371.7	328.5	315.1	310.4	308.1	307.3	308.1
45°	3900.3	2928.9	1112.8	488.8	363.9	323.8	310.4	305.7	301.0	297.8	297.8
47.5°	4312.1	3181.2	1145.0	481.0	355.2	318.3	306.5	301.8	294.7	287.6	287.6
50°	4675.9	3395.8	1188.2	484.1	352.1	310.4	300.2	297.8	286.8	279.0	278.2
52.5°	4965.1	3560.8	1223.6	493.5	355.2	304.9	292.3	293.1	281.3	272.7	271.9
55°	5197.0	3669.2	1214.2	503.0	362.3	301.8	285.3	286.8	277.4	268.8	268.8
57.5°	5298.3	3629.2	1109.7	495.1	367.8	302.6	279.8	286.1	278.2	270.3	270.3
60°	5080.7	3273.2	914.0	460.5	360.7	300.2	277.4	289.2	288.4	280.6	279.8
62.5°	4422.1	2635.8	708.9	409.4	336.4	288.4	271.1	288.4	297.1	294.7	293.9
65°	3408.3	1877.4	541.5	354.4	303.3	268.8	254.6	270.3	282.1	285.3	284.5
67.5°	2212.2	1150.5	417.3	302.6	266.4	246.0	233.4	240.5	242.8	242.8	241.3
70°	1087.6	619.3	332.4	254.6	228.7	221.6	214.5	210.6	206.7	203.5	203.5
72.5°	536.8	404.7	273.5	215.3	197.3	194.1	192.5	187.8	184.7	180.8	179.2
75°	396.9	329.3	232.6	181.5	169.7	166.6	169.7	165.8	165.0	161.9	160.3
77.5°	326.1	280.6	200.4	155.6	145.4	139.9	144.6	145.4	146.2	141.5	139.9
80°	264.8	237.3	167.4	128.9	119.5	115.5	118.7	125.0	126.5	119.5	116.3
82.5°	191.0	194.1	135.2	100.6	92.7	89.6	95.9	103.7	105.3	95.1	92.7
85°	160.3	161.9	103.7	71.5	63.7	58.9	69.2	77.0	82.5	72.3	69.9
87.5°	66.8	95.1	59.7	40.1	35.4	30.6	36.9	40.9	49.5	45.6	44.8
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)