

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: P191151

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191151
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-03-LED-E1-SL3-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA 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: 12248.8 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

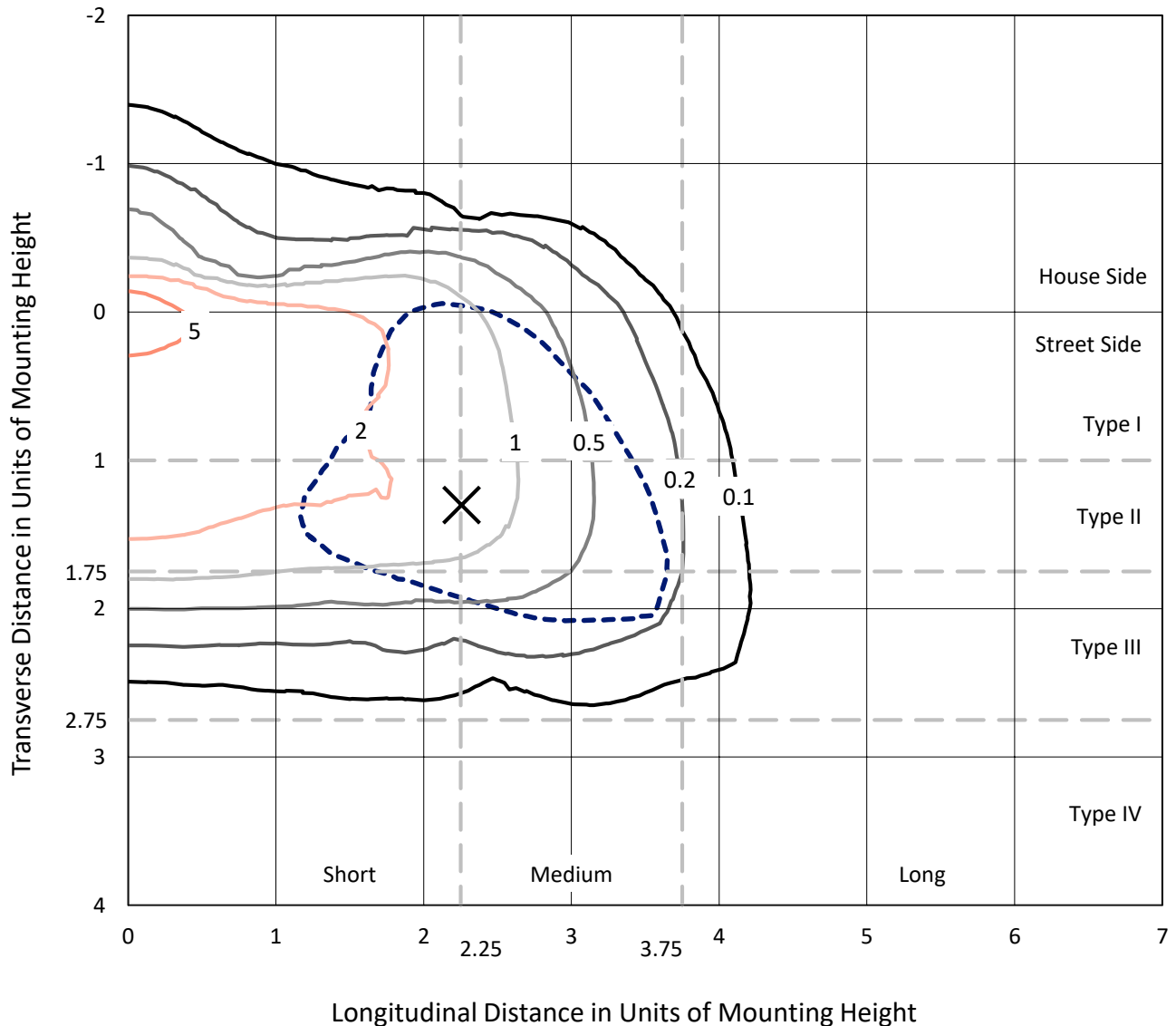
Input Watts (W): 96
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191151
 CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-600

Iso-Footcandle Lines of Horizontal Illumination

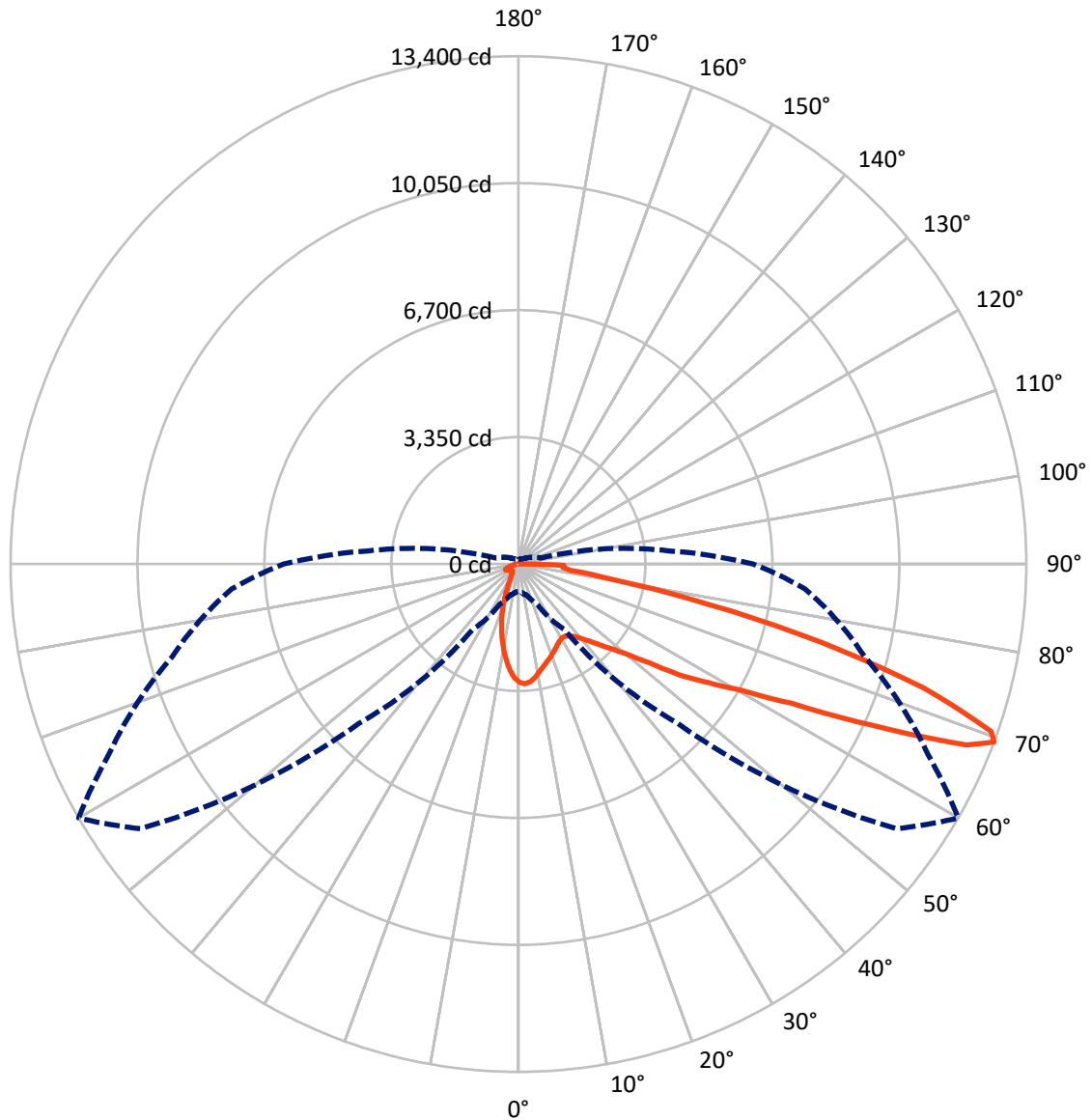
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P191151
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191151

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1742.6	0.0	1742.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	10506.2	0.0	10506.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	12248.8	0.0	12248.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.9	2.2
10°-20°	562.3	4.6
20°-30°	716.4	5.8
30°-40°	984.9	8.0
40°-50°	1598.1	13.0
50°-60°	2563.0	20.9
60°-70°	3411.1	27.8
70°-80°	1841.7	15.0
80°-90°	307.3	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°	12248.8	100.0
0°-180°	12248.8	100.0

Coefficient of Utilization



REPORT NUMBER: P191151

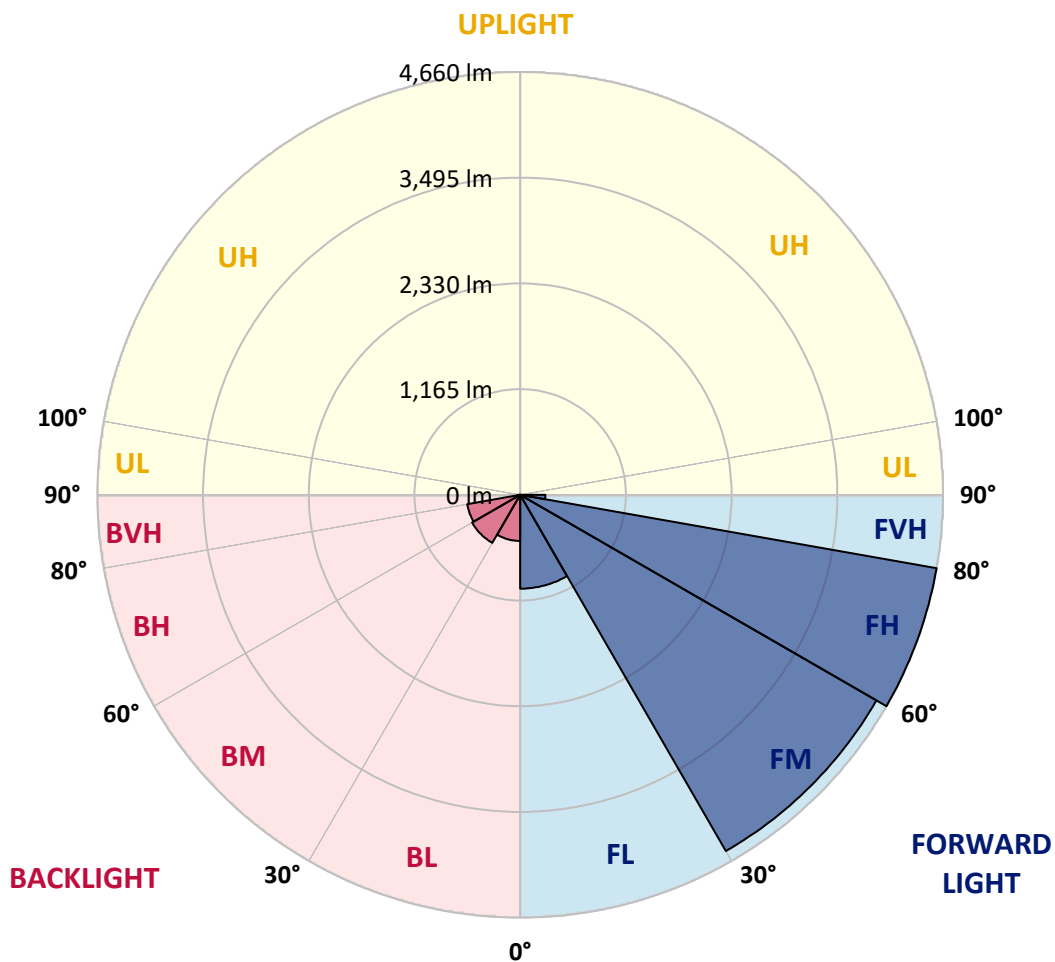
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1034.2	8.4			
FM	(30°-60°)	4533.8	37.0			
FH	(60°-80°)	4660.4	38.0			G2/5000
FVH	(80°-90°)	277.7	2.3			G3/500
BL	(0°-30°)	508.4	4.2	B2/1000		
BM	(30°-60°)	612.2	5.0	B1/1000		
BH	(60°-80°)	592.4	4.8	B2/1000		G2/1000
BVH	(80°-90°)	29.6	0.2			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 III Medium





REPORT NUMBER: P191151

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3121.2	3121.2	3121.2	3121.2	3121.2	3121.2	3121.2	3121.2	3121.2	3121.2	3121.2
2.5°	3185.1	3192.2	3189.3	3187.4	3192.7	3184.4	3167.4	3162.0	3153.8	3134.2	3101.1
5°	3065.6	3086.9	3085.7	3101.7	3128.3	3135.3	3127.7	3128.9	3113.5	3089.2	3034.2
7.5°	2859.0	2867.9	2872.7	2907.5	2956.1	2995.2	3028.2	3039.0	3031.8	3011.2	2940.2
10°	2646.1	2653.1	2664.4	2705.2	2766.8	2820.6	2883.3	2919.4	2934.8	2931.3	2852.0
12.5°	2463.3	2470.3	2485.2	2531.3	2604.6	2670.9	2762.1	2807.0	2843.7	2865.6	2780.4
15°	2299.3	2314.7	2329.0	2382.1	2464.4	2551.3	2654.4	2711.1	2767.9	2817.0	2717.1
17.5°	2171.5	2186.9	2195.2	2243.7	2331.3	2437.8	2558.5	2625.3	2696.4	2776.8	2654.4
20°	2097.6	2104.6	2101.1	2128.4	2207.0	2320.1	2463.3	2540.7	2626.5	2739.0	2591.6
22.5°	2076.8	2077.4	2064.4	2061.5	2112.4	2207.6	2361.5	2455.5	2560.9	2714.1	2537.7
25°	2127.1	2125.4	2089.9	2060.8	2066.2	2121.8	2263.3	2372.7	2505.8	2708.8	2496.3
27.5°	2238.9	2244.3	2191.7	2137.1	2083.3	2081.6	2188.7	2304.1	2460.8	2733.0	2478.6
30°	2395.8	2404.7	2348.4	2279.2	2178.1	2094.6	2159.7	2263.3	2433.1	2783.3	2475.6
32.5°	2567.4	2576.8	2534.3	2461.4	2329.0	2175.1	2179.8	2266.8	2431.9	2853.7	2495.8
35°	2750.2	2760.8	2739.0	2677.4	2530.1	2323.5	2256.7	2324.1	2470.3	2961.4	2549.6
37.5°	2954.3	2970.9	2976.8	2918.3	2760.8	2519.4	2382.8	2433.1	2557.3	3111.1	2648.4
40°	3248.4	3271.5	3269.7	3185.7	3025.4	2784.0	2577.4	2590.4	2692.8	3311.1	2806.4
42.5°	3811.7	3816.4	3669.1	3486.2	3316.4	3062.0	2807.0	2796.3	2879.8	3564.4	3039.0
45°	4528.2	4508.7	4180.9	3827.7	3620.5	3381.6	3105.8	3053.7	3117.0	3873.2	3330.0
47.5°	5122.8	5077.9	4663.7	4176.2	3942.5	3728.9	3456.7	3365.5	3400.5	4223.6	3706.4
50°	5329.4	5295.6	4952.5	4466.1	4247.2	4152.5	3888.6	3759.7	3769.1	4641.2	4147.1
52.5°	5285.0	5280.3	5051.3	4657.2	4532.4	4597.4	4500.5	4325.9	4233.6	5105.1	4622.9
55°	5180.3	5190.4	5107.5	4879.7	4858.4	5027.0	5299.8	5170.8	4883.9	5573.1	5114.5
57.5°	4816.4	4842.4	5024.6	5159.6	5383.3	5634.1	5943.5	5906.9	5583.8	6079.1	5699.2
60°	3880.4	3940.7	4429.4	5105.1	5923.4	6708.0	6846.5	6761.3	6305.7	6706.9	6471.4
62.5°	2718.8	2781.5	3362.6	4420.0	5834.7	7921.0	8460.6	8093.2	7342.3	7631.6	7470.7
65°	1455.6	1485.7	1929.5	3066.7	4925.8	8171.3	10819.8	10260.6	8983.7	8771.9	8325.7
67.5°	802.9	819.5	989.3	1548.4	3154.9	7195.5	12322.6	12745.0	11035.1	9531.0	8170.1
69°	726.0	741.4	852.6	1172.7	2111.2	5949.5	12175.9	13400.0	11934.5	9455.9	7595.0
70°	710.0	724.2	824.2	1081.1	1708.8	4903.9	11684.1	13232.6	12148.7	9186.6	7093.2
72.5°	639.0	654.4	751.5	971.0	1460.3	2444.9	9255.2	11188.3	11029.8	7965.4	5380.3
75°	595.9	610.0	774.5	950.8	1398.2	1547.3	6101.6	8245.8	8108.0	5572.0	2901.1
77.5°	255.0	253.8	359.2	804.7	1418.8	1498.2	3278.6	5151.3	4699.8	2381.5	833.1
80°	170.4	167.5	170.4	236.7	1301.1	1506.5	1717.6	2614.7	1975.1	607.1	410.6
82.5°	146.7	144.3	149.7	144.3	457.4	1719.5	1460.3	1390.5	939.0	344.9	203.6
85°	98.8	94.6	129.0	129.6	215.9	1527.8	1644.9	1174.6	759.7	204.7	100.6
87.5°	47.4	46.1	75.2	91.8	126.6	620.7	1845.5	1203.5	766.3	104.8	48.0
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: P191151

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3121.2	3121.2	3121.2	3121.2	3121.2	3121.2	3121.2	3121.2	3121.2	3121.2	3121.2
2.5°	3091.1	3066.7	3043.1	3014.6	2985.1	2951.9	2935.4	2918.8	2914.7	2910.0	2893.4
5°	3005.8	2971.5	2912.3	2847.2	2778.6	2711.7	2660.8	2628.9	2604.6	2592.3	2570.3
7.5°	2895.8	2845.4	2741.9	2629.5	2514.1	2408.7	2317.7	2260.3	2205.8	2180.4	2151.4
10°	2791.0	2715.8	2554.9	2389.3	2223.6	2064.4	1914.8	1808.8	1714.8	1662.1	1624.8
12.5°	2701.1	2598.1	2375.1	2150.9	1923.6	1697.0	1472.7	1296.4	1149.1	1071.5	1032.0
15°	2613.5	2489.2	2204.0	1919.5	1627.7	1319.5	1024.8	824.8	703.0	654.4	637.8
17.5°	2534.3	2375.1	2032.5	1686.3	1322.5	949.7	688.8	578.7	531.9	516.0	510.7
20°	2448.4	2259.7	1854.4	1442.6	1004.1	663.9	537.9	489.4	470.4	465.6	463.3
22.5°	2365.6	2146.0	1684.0	1181.6	721.3	512.4	462.1	442.0	439.1	443.1	443.1
25°	2295.2	2044.3	1500.0	908.9	529.6	431.4	413.6	408.9	420.1	435.5	438.4
27.5°	2242.5	1960.9	1304.1	671.0	421.9	375.1	374.5	382.3	410.0	439.7	445.5
30°	2206.4	1881.6	1094.7	484.0	353.8	330.2	339.6	356.2	397.0	439.1	450.3
32.5°	2188.1	1823.0	876.3	374.5	303.0	289.9	305.9	326.0	366.2	405.3	420.1
35°	2202.3	1779.8	670.3	312.4	267.4	257.4	273.9	293.5	317.1	333.7	344.9
37.5°	2255.5	1762.6	505.8	279.9	243.2	233.7	246.7	258.0	267.4	272.2	277.5
40°	2370.3	1781.0	405.3	263.3	229.6	217.8	223.1	227.2	233.1	237.8	240.2
42.5°	2539.6	1836.0	363.2	256.8	222.5	205.3	204.2	205.9	213.6	222.5	224.2
45°	2776.2	1933.1	360.4	261.0	218.9	195.3	190.0	192.3	204.2	217.8	220.1
47.5°	3078.6	2081.0	384.0	273.3	221.9	190.0	181.1	184.0	198.8	217.2	220.1
50°	3444.9	2287.5	423.6	291.7	234.9	191.1	178.1	179.8	195.3	215.3	218.3
52.5°	3877.4	2580.4	466.9	309.4	248.5	198.8	180.4	176.4	190.6	208.3	211.9
55°	4358.4	2956.1	511.3	325.4	255.6	208.3	185.2	171.5	181.7	196.4	199.4
57.5°	4948.9	3481.5	588.1	340.8	260.3	214.8	190.0	166.8	170.4	181.1	183.4
60°	5748.3	4224.7	723.6	366.2	271.0	217.2	189.3	162.8	159.2	165.1	166.2
62.5°	6706.3	5031.8	836.7	398.2	288.8	218.9	185.8	159.8	149.7	149.7	150.9
65°	7274.9	5247.7	774.0	424.8	303.5	217.2	181.7	156.8	142.6	136.1	136.7
67.5°	6792.6	4615.2	663.3	430.2	303.0	208.9	175.1	151.5	135.5	125.4	124.8
69°	6188.5	3982.1	613.6	415.9	288.8	198.2	166.8	145.6	130.2	119.5	119.0
70°	5701.5	3595.7	581.0	400.6	273.3	190.6	160.4	140.2	126.0	116.0	114.8
72.5°	4145.4	2356.2	496.4	344.3	225.5	159.8	138.4	123.1	112.4	106.5	105.4
75°	2071.5	1123.6	402.9	279.3	172.8	127.8	113.6	102.9	97.6	96.5	95.9
77.5°	680.5	514.7	288.2	208.3	128.4	100.0	91.8	84.0	82.9	86.3	85.2
80°	374.0	299.4	182.8	137.9	87.6	73.3	72.2	68.0	69.9	75.7	74.6
82.5°	190.6	155.6	113.0	82.9	59.1	52.7	57.4	55.0	57.4	62.7	62.1
85°	94.1	85.2	71.6	50.3	39.1	33.8	40.8	42.6	43.8	48.0	48.0
87.5°	54.4	50.3	37.8	23.6	19.5	17.8	23.6	23.1	27.2	29.6	28.9
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)