

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: P269073

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269073
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-SL3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 10582.3 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

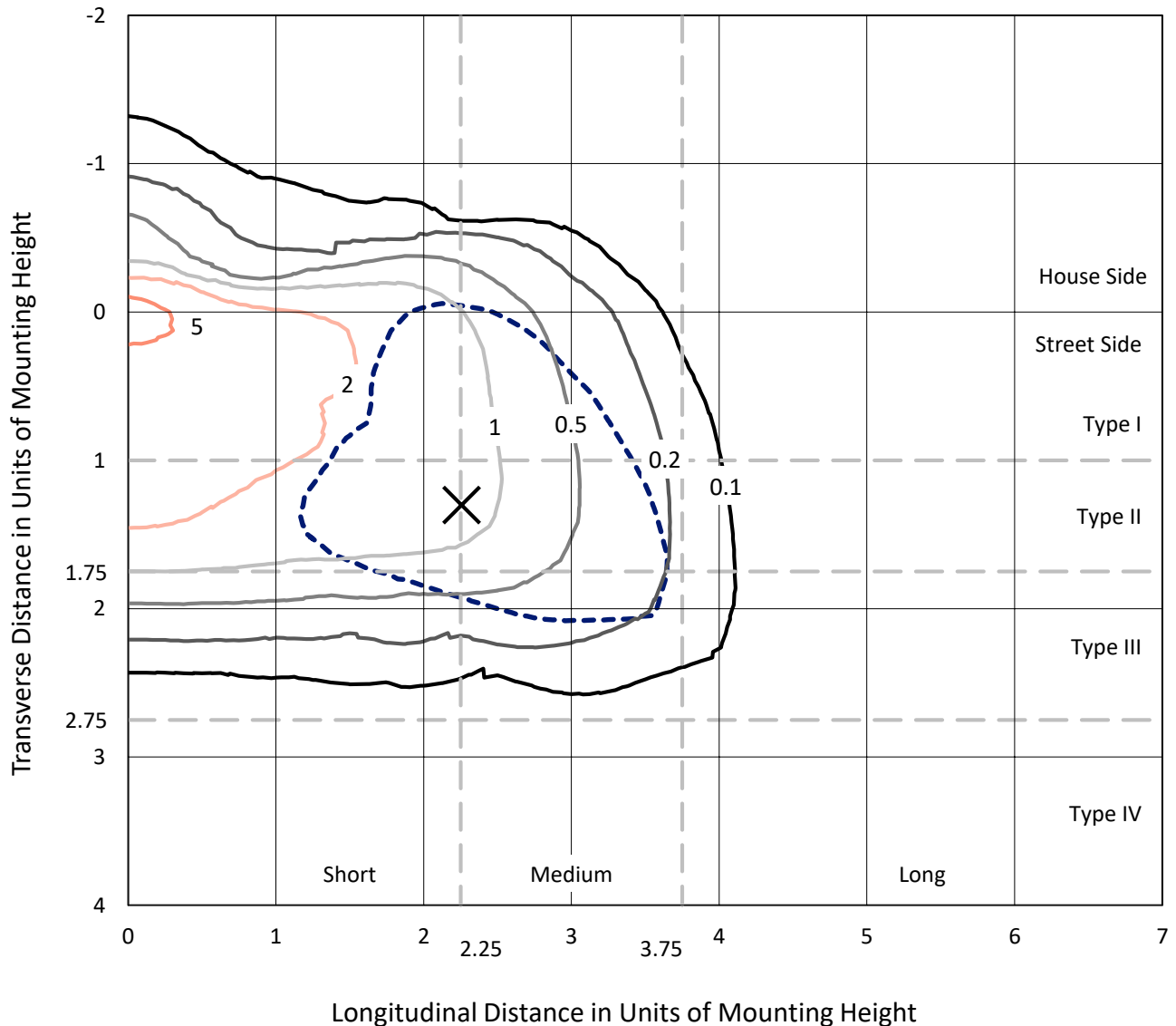
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: GLEON-AF-02-LED-E1-SL3-7027

Iso-Footcandle Lines of Horizontal Illumination

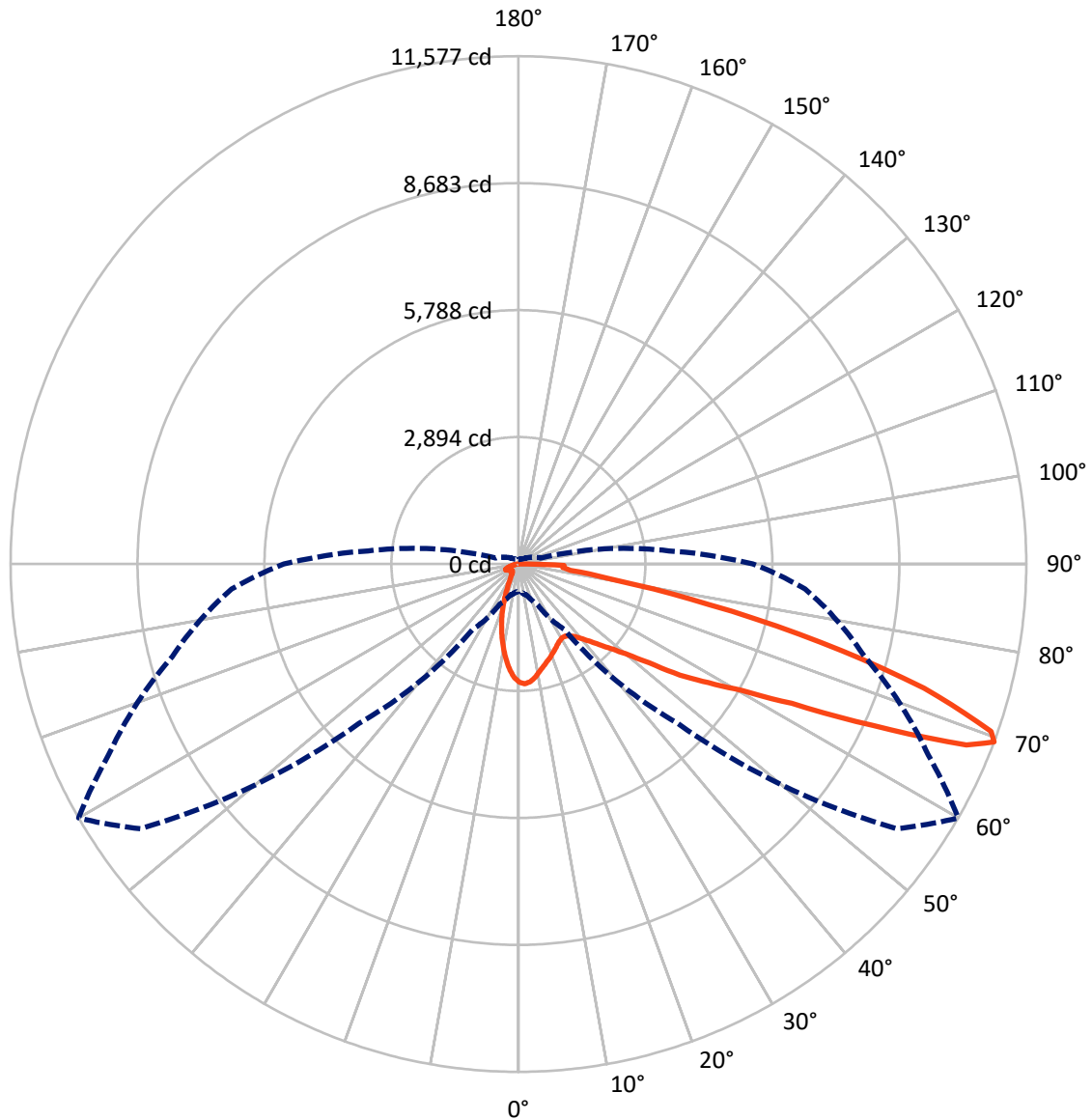
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - Non-Cutoff

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CATALOG NUMBER: GLEON-AF-02-LED-E1-SL3-7027

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLEON-AF-02-LED-E1-SL3-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1505.5	0.0	1505.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	9076.8	0.0	9076.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	10582.3	0.0	10582.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	2.2
10°-20°	485.8	4.6
20°-30°	619.0	5.8
30°-40°	850.9	8.0
40°-50°	1380.7	13.0
50°-60°	2214.3	20.9
60°-70°	2947.0	27.8
70°-80°	1591.2	15.0
80°-90°	265.5	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°	10582.3	100.0
0°-180°	10582.3	100.0



REPORT NUMBER: P269073

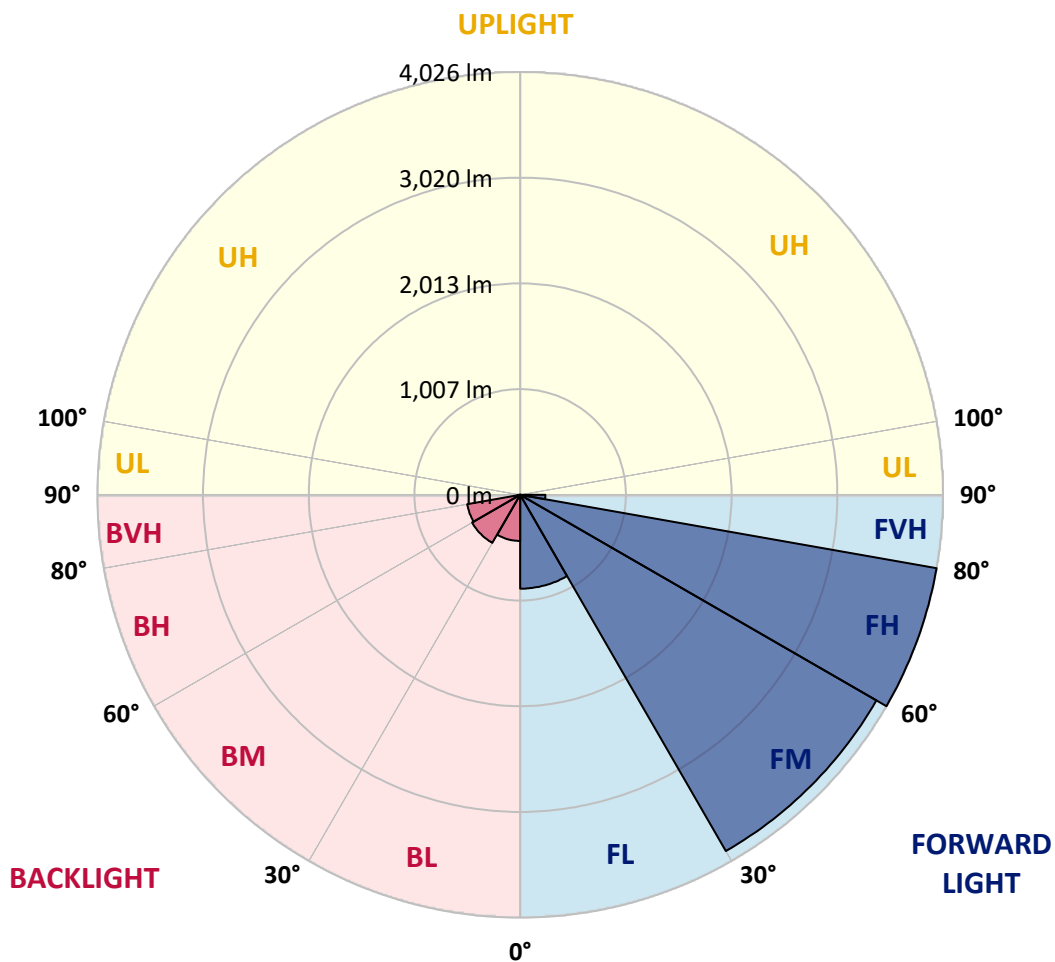
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	893.5	8.4			
FM (30°-60°)	3917.0	37.0			
FH (60°-80°)	4026.4	38.0			G2/5000
FVH (80°-90°)	239.9	2.3			G3/500
BL (0°-30°)	439.2	4.2	B1/500		
BM (30°-60°)	528.9	5.0	B1/1000		
BH (60°-80°)	511.8	4.8	B2/1000		G2/1000
BVH (80°-90°)	25.6	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: P269073

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL3-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2696.5	2696.5	2696.5	2696.5	2696.5	2696.5	2696.5	2696.5	2696.5	2696.5	2696.5
2.5°	2751.8	2757.8	2755.3	2753.8	2758.3	2751.1	2736.3	2731.8	2724.6	2707.9	2679.1
5°	2648.6	2666.9	2665.9	2679.6	2702.7	2708.7	2702.1	2703.2	2689.9	2669.0	2621.4
7.5°	2470.1	2477.7	2481.8	2512.0	2553.9	2587.7	2616.3	2625.4	2619.4	2601.4	2540.0
10°	2286.0	2292.1	2301.8	2337.2	2390.3	2436.8	2491.0	2522.3	2535.6	2532.4	2464.0
12.5°	2128.1	2134.3	2146.9	2186.8	2250.3	2307.6	2386.3	2425.2	2456.8	2475.6	2402.1
15°	1986.5	1999.7	2012.1	2058.0	2129.2	2204.4	2293.3	2342.3	2391.4	2433.8	2347.5
17.5°	1876.1	1889.3	1896.5	1938.5	2014.1	2106.2	2210.4	2268.2	2329.6	2399.1	2293.3
20°	1812.2	1818.3	1815.2	1838.8	1906.7	2004.4	2128.1	2195.1	2269.2	2366.3	2239.0
22.5°	1794.3	1794.9	1783.6	1781.0	1824.9	1907.2	2040.2	2121.4	2212.4	2344.8	2192.6
25°	1837.8	1836.1	1805.6	1780.5	1785.1	1833.1	1955.3	2049.9	2164.8	2340.3	2156.7
27.5°	1934.3	1938.9	1893.4	1846.5	1799.9	1798.3	1890.9	1990.6	2126.1	2361.1	2141.4
30°	2069.9	2077.5	2028.9	1969.2	1881.7	1809.6	1865.9	1955.3	2102.0	2404.7	2138.9
32.5°	2218.1	2226.2	2189.3	2126.6	2012.1	1879.2	1883.2	1958.3	2101.0	2465.5	2156.2
35°	2376.0	2385.2	2366.3	2313.1	2185.8	2007.4	1949.7	2007.9	2134.3	2558.6	2202.7
37.5°	2552.4	2566.6	2571.8	2521.3	2385.2	2176.7	2058.6	2102.0	2209.4	2687.9	2288.2
40°	2806.5	2826.3	2824.8	2752.2	2613.7	2405.1	2226.8	2237.9	2326.4	2860.7	2424.5
42.5°	3293.0	3297.1	3169.8	3011.9	2865.2	2645.4	2425.2	2415.9	2487.9	3079.4	2625.4
45°	3912.2	3895.3	3612.1	3306.9	3128.0	2921.5	2683.2	2638.2	2692.9	3346.2	2877.0
47.5°	4425.9	4387.1	4029.2	3608.0	3406.1	3221.5	2986.3	2907.6	2937.8	3648.8	3202.1
50°	4604.4	4575.2	4278.6	3858.5	3669.3	3587.6	3359.5	3248.1	3256.3	4009.8	3582.9
52.5°	4565.9	4562.0	4364.1	4023.6	3915.7	3971.9	3888.1	3737.3	3657.5	4410.6	3994.0
55°	4475.4	4484.2	4412.7	4215.7	4197.4	4343.0	4578.8	4467.4	4219.3	4814.9	4418.8
57.5°	4161.0	4183.5	4341.1	4457.6	4650.9	4867.6	5134.9	5103.2	4824.1	5252.0	4923.8
60°	3352.5	3404.5	3826.8	4410.6	5117.6	5795.3	5915.0	5841.4	5447.9	5794.3	5591.0
62.5°	2348.9	2403.1	2905.1	3818.6	5040.8	6843.4	7309.6	6992.0	6343.4	6593.4	6454.3
65°	1257.5	1283.6	1667.1	2649.6	4255.7	7059.6	9347.7	8864.6	7761.4	7578.5	7193.0
67.5°	693.8	708.0	854.6	1337.8	2725.6	6216.6	10646.2	11011.1	9533.7	8234.3	7058.5
69°	627.2	640.5	736.6	1013.2	1823.9	5140.0	10519.3	11576.9	10310.7	8169.4	6561.7
70°	613.5	625.7	712.0	934.0	1476.4	4236.8	10094.6	11432.3	10495.7	7936.7	6128.1
72.5°	552.1	565.4	649.3	838.8	1261.6	2112.3	7996.1	9666.1	9529.1	6881.6	4648.3
75°	514.8	527.0	669.1	821.5	1208.0	1336.8	5271.4	7124.0	7004.9	4813.8	2506.5
77.5°	220.4	219.2	310.3	695.2	1225.8	1294.4	2832.5	4450.5	4060.3	2057.6	719.7
80°	147.2	144.6	147.2	204.5	1124.0	1301.6	1484.0	2259.0	1706.4	524.5	354.8
82.5°	126.8	124.8	129.4	124.8	395.2	1485.5	1261.6	1201.4	811.3	298.0	175.9
85°	85.3	81.7	111.4	112.0	186.6	1319.9	1421.1	1014.7	656.4	176.8	86.9
87.5°	41.0	39.9	64.9	79.2	109.5	536.3	1594.4	1039.8	662.1	90.5	41.4
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°	2696.5	2696.5	2696.5	2696.5	2696.5	2696.5	2696.5	2696.5	2696.5	2696.5	2696.5
2.5°	2670.5	2649.6	2629.1	2604.5	2578.9	2550.4	2536.1	2521.7	2518.0	2514.0	2499.8
5°	2596.9	2567.1	2516.2	2459.9	2400.6	2342.8	2298.9	2271.3	2250.3	2239.6	2220.6
7.5°	2501.8	2458.3	2368.9	2271.8	2172.0	2081.1	2002.3	1952.7	1905.8	1883.7	1858.8
10°	2411.3	2346.4	2207.3	2064.1	1921.0	1783.6	1654.1	1562.7	1481.5	1435.9	1403.7
12.5°	2333.5	2244.7	2051.9	1858.1	1661.9	1466.2	1272.4	1120.0	992.7	925.8	891.5
15°	2257.9	2150.6	1904.1	1658.4	1406.2	1139.9	885.4	712.5	607.3	565.4	551.1
17.5°	2189.3	2051.9	1755.9	1457.0	1142.6	820.4	595.0	499.9	459.6	445.7	441.2
20°	2115.2	1952.2	1602.0	1246.3	867.6	573.6	464.7	422.7	406.5	402.4	400.3
22.5°	2043.7	1854.1	1454.8	1020.8	623.2	442.7	399.2	381.9	379.4	382.9	382.9
25°	1982.9	1766.2	1295.8	785.2	457.4	372.6	357.3	353.3	362.9	376.2	378.7
27.5°	1937.5	1694.2	1126.7	579.6	364.5	324.1	323.6	330.2	354.2	379.9	385.0
30°	1906.3	1625.7	945.6	418.2	305.8	285.2	293.4	307.7	343.1	379.4	389.1
32.5°	1890.5	1575.0	757.1	323.6	261.8	250.4	264.3	281.7	316.5	350.2	362.9
35°	1902.7	1537.7	579.1	269.9	231.0	222.4	236.7	253.5	274.1	288.4	298.0
37.5°	1948.7	1522.8	437.0	241.9	210.2	201.8	213.2	222.9	231.0	235.1	239.8
40°	2047.9	1538.6	350.2	227.5	198.3	188.1	192.7	196.3	201.4	205.5	207.6
42.5°	2194.0	1586.2	313.9	221.8	192.1	177.3	176.3	178.0	184.5	192.1	193.8
45°	2398.6	1670.0	311.4	225.5	189.2	168.7	164.1	166.1	176.3	188.1	190.3
47.5°	2659.7	1797.9	331.7	236.2	191.7	164.1	156.5	159.0	171.8	187.6	190.3
50°	2976.2	1976.4	366.0	252.1	202.9	165.1	153.9	155.3	168.7	186.0	188.6
52.5°	3349.8	2229.4	403.2	267.3	214.8	171.8	155.9	152.4	164.6	179.9	183.1
55°	3765.4	2553.9	441.6	281.2	220.9	179.9	160.0	148.2	156.9	169.7	172.2
57.5°	4275.7	3007.9	508.1	294.5	224.9	185.6	164.1	144.2	147.2	156.5	158.6
60°	4966.2	3650.0	625.2	316.5	234.1	187.6	163.6	140.6	137.5	142.7	143.6
62.5°	5793.9	4347.2	722.9	344.1	249.5	189.2	160.4	138.0	129.4	129.4	130.3
65°	6285.1	4533.7	668.7	367.0	262.2	187.6	156.9	135.5	123.2	117.6	118.0
67.5°	5868.4	3987.2	573.1	371.5	261.8	180.5	151.4	130.9	117.0	108.3	107.8
69°	5346.5	3440.2	530.1	359.3	249.5	171.2	144.2	125.8	112.5	103.2	102.8
70°	4925.9	3106.5	502.1	346.0	236.2	164.6	138.5	121.1	108.9	100.3	99.2
72.5°	3581.5	2035.6	428.9	297.5	194.8	138.0	119.7	106.3	97.1	92.0	91.0
75°	1789.8	970.8	348.2	241.3	149.3	110.4	98.2	88.9	84.4	83.4	82.9
77.5°	587.9	444.8	248.9	179.9	110.9	86.3	79.2	72.7	71.5	74.6	73.7
80°	323.1	258.6	157.9	119.1	75.6	63.4	62.3	58.7	60.4	65.4	64.4
82.5°	164.6	134.4	97.6	71.5	51.2	45.5	49.5	47.5	49.5	54.2	53.7
85°	81.2	73.7	61.9	43.5	33.7	29.1	35.3	36.8	37.8	41.4	41.4
87.5°	47.0	43.5	32.7	20.4	16.9	15.4	20.4	19.9	23.5	25.5	25.1
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)