

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: P269078

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269078
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-SL3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 11608 lumens
Efficiency: N/A
Efficacy: 90.0 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): 129
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

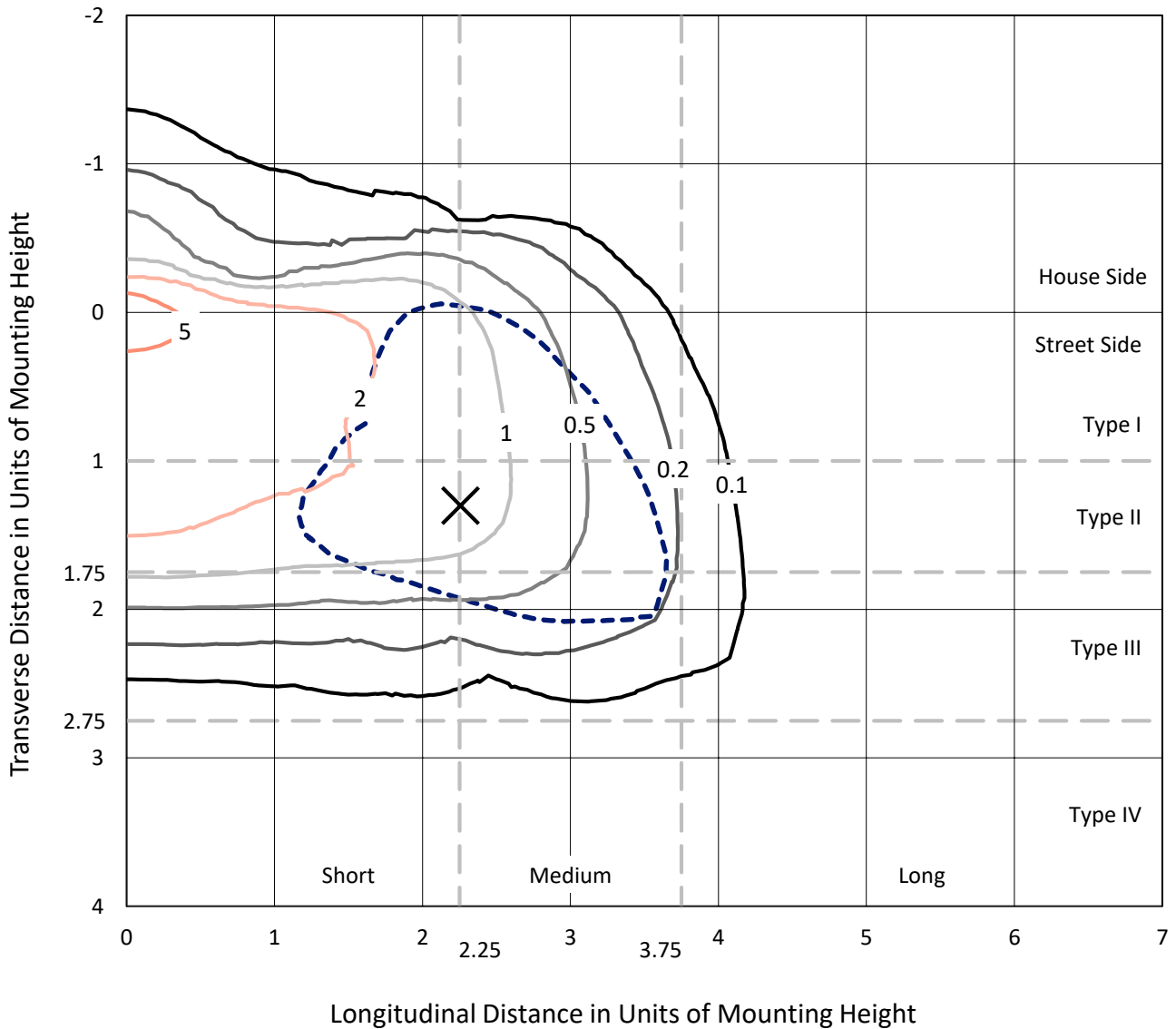


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

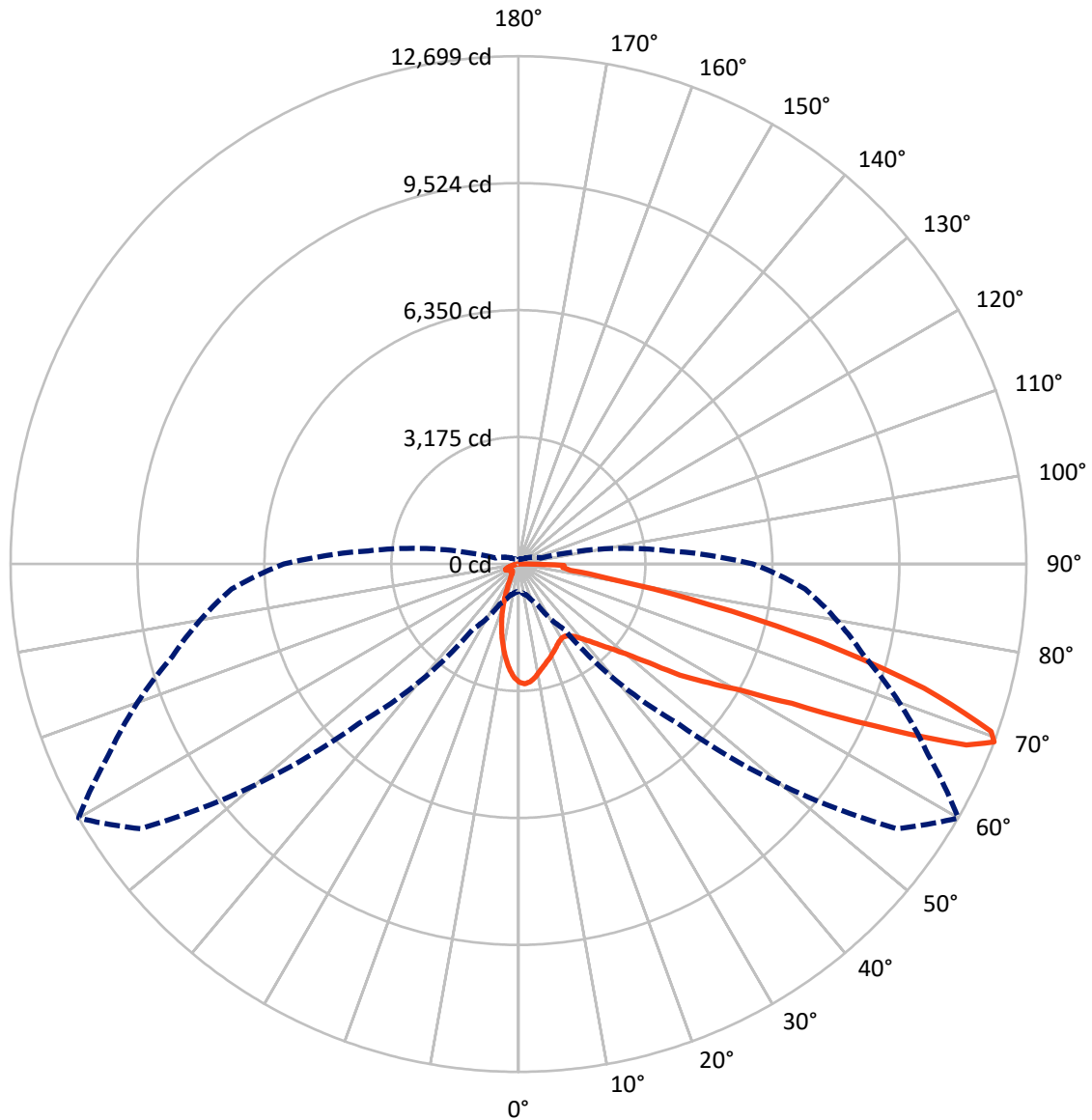


Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Medium - Non-Cutoff

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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	1651.5	0.0	1651.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	9956.5	0.0	9956.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	11608.0	0.0	11608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	2.2
10°-20°	532.9	4.6
20°-30°	679.0	5.8
30°-40°	933.4	8.0
40°-50°	1514.5	13.0
50°-60°	2428.9	20.9
60°-70°	3232.7	27.8
70°-80°	1745.4	15.0
80°-90°	291.2	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°	11608.0	100.0
0°-180°	11608.0	100.0

Coefficient of Utilization



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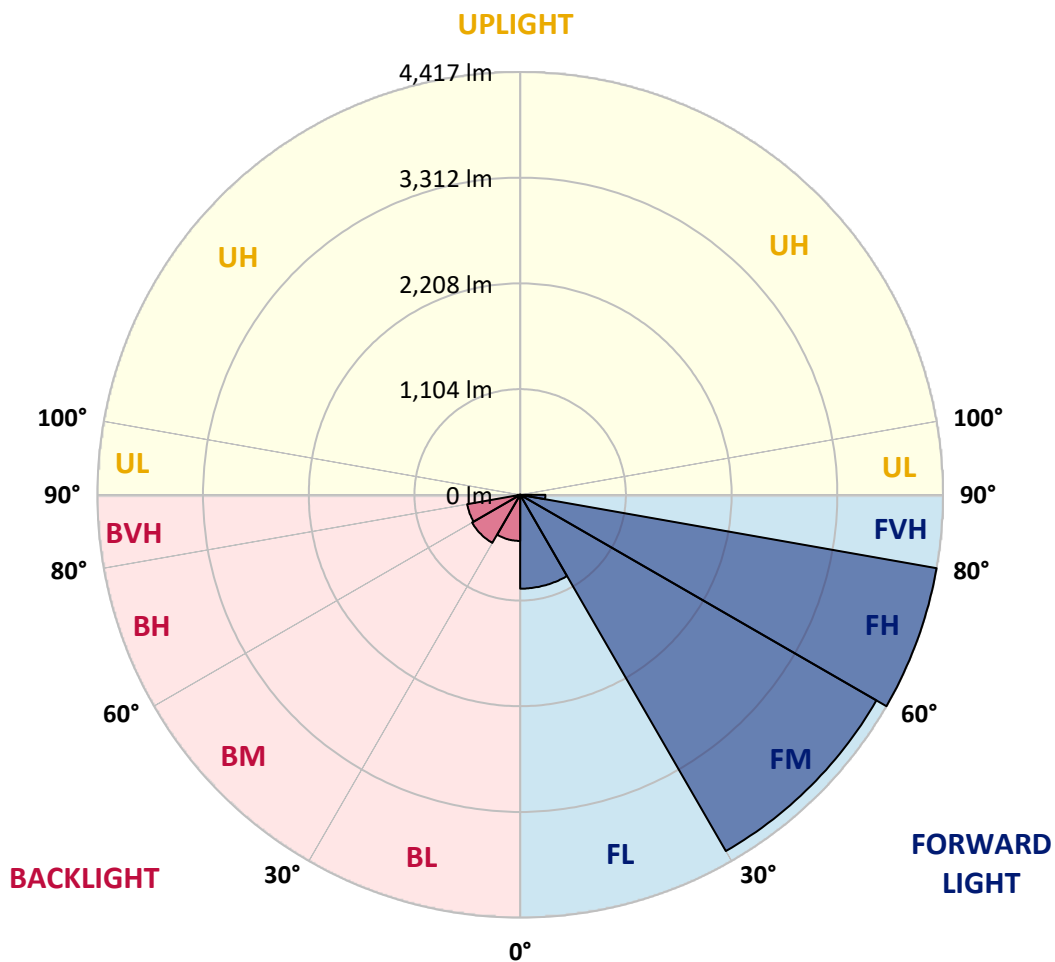
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.1	8.4			
FM (30°-60°)	4296.6	37.0			
FH (60°-80°)	4416.6	38.0			G2/5000
FVH (80°-90°)	263.2	2.3			G3/500
BL (0°-30°)	481.8	4.2	B1/500		
BM (30°-60°)	580.2	5.0	B1/1000		
BH (60°-80°)	561.4	4.8	B2/1000		G2/1000
BVH (80°-90°)	28.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8
2.5°	3018.5	3025.2	3022.3	3020.7	3025.8	3017.9	3001.6	2996.6	2988.8	2970.2	2938.8
5°	2905.2	2925.4	2924.3	2939.3	2964.6	2971.4	2964.0	2965.1	2950.7	2927.5	2875.5
7.5°	2709.5	2717.9	2722.4	2755.6	2801.5	2838.5	2869.8	2880.0	2873.1	2853.6	2786.4
10°	2507.6	2514.4	2525.0	2563.8	2622.1	2673.0	2732.5	2766.7	2781.2	2777.9	2702.7
12.5°	2334.3	2341.2	2355.0	2398.8	2468.4	2531.2	2617.5	2660.2	2694.9	2715.7	2634.9
15°	2179.0	2193.7	2207.0	2257.5	2335.5	2417.9	2515.4	2569.3	2623.1	2669.7	2574.9
17.5°	2057.8	2072.5	2080.4	2126.3	2209.3	2310.3	2424.6	2487.9	2555.3	2631.6	2515.4
20°	1987.8	1994.5	1991.2	2017.0	2091.6	2198.6	2334.3	2407.7	2489.2	2595.7	2456.1
22.5°	1968.1	1968.7	1956.4	1953.6	2001.9	2092.2	2237.9	2327.1	2427.0	2572.0	2405.0
25°	2015.8	2014.2	1980.6	1953.1	1958.0	2010.8	2144.9	2248.5	2374.7	2567.0	2365.7
27.5°	2121.8	2126.8	2077.1	2025.4	1974.4	1972.7	2074.1	2183.5	2332.1	2590.1	2348.9
30°	2270.5	2278.8	2225.6	2160.0	2064.0	1985.1	2046.7	2144.9	2305.8	2637.8	2346.2
32.5°	2433.0	2442.0	2401.7	2332.7	2207.0	2061.3	2065.7	2148.1	2304.6	2704.4	2365.1
35°	2606.3	2616.5	2595.7	2537.4	2397.8	2202.0	2138.7	2202.6	2341.2	2806.5	2416.3
37.5°	2799.7	2815.5	2821.0	2765.5	2616.5	2387.7	2258.1	2305.8	2423.4	2948.3	2509.9
40°	3078.4	3100.3	3098.7	3019.1	2867.0	2638.2	2442.6	2454.9	2551.9	3137.9	2659.6
42.5°	3612.3	3616.8	3477.1	3303.8	3142.9	2901.9	2660.2	2650.0	2729.1	3377.8	2880.0
45°	4291.4	4272.8	3962.2	3627.4	3431.2	3204.7	2943.2	2894.0	2953.9	3670.6	3155.8
47.5°	4854.9	4812.2	4419.8	3957.8	3736.2	3533.8	3275.8	3189.5	3222.6	4002.6	3512.5
50°	5050.6	5018.7	4693.4	4232.5	4024.9	3935.3	3685.1	3562.9	3571.9	4398.5	3930.3
52.5°	5008.5	5004.0	4787.0	4413.6	4295.2	4356.9	4265.0	4099.5	4012.1	4838.0	4381.0
55°	4909.2	4918.8	4840.2	4624.5	4604.3	4764.0	5022.6	4900.3	4628.3	5281.6	4847.1
57.5°	4564.4	4589.1	4761.7	4889.7	5101.6	5339.3	5632.6	5597.9	5291.6	5761.0	5401.0
60°	3677.3	3734.6	4197.7	4838.0	5613.6	6357.0	6488.3	6407.5	5975.7	6356.0	6132.8
62.5°	2576.6	2636.0	3186.6	4188.6	5529.4	7506.5	8018.0	7669.8	6958.2	7232.4	7079.9
65°	1379.3	1408.1	1828.6	2906.2	4668.1	7743.7	10253.7	9723.8	8513.6	8312.9	7890.2
67.5°	761.0	776.7	937.6	1467.4	2989.9	6819.2	11678.0	12078.3	10457.8	9032.4	7742.8
69°	688.0	702.7	808.0	1111.5	2000.7	5638.2	11538.9	12699.0	11310.1	8961.1	7197.6
70°	672.9	686.3	781.0	1024.4	1619.5	4647.4	11072.9	12540.2	11513.0	8706.1	6722.1
72.5°	605.5	620.2	712.1	920.1	1383.8	2317.0	8771.1	10603.0	10452.7	7548.6	5098.8
75°	564.7	578.1	734.0	901.1	1325.0	1466.4	5782.3	7814.4	7683.8	5280.4	2749.4
77.5°	241.6	240.6	340.4	762.7	1344.7	1419.9	3107.1	4881.7	4453.9	2257.0	789.5
80°	161.4	158.7	161.4	224.2	1233.1	1427.6	1627.8	2478.0	1871.8	575.4	389.1
82.5°	139.1	136.8	141.8	136.8	433.4	1629.4	1383.8	1317.8	890.0	327.0	192.9
85°	93.7	89.7	122.2	122.8	204.6	1447.8	1558.9	1113.1	720.0	194.0	95.3
87.5°	44.8	43.7	71.2	87.0	120.1	588.2	1748.9	1140.6	726.2	99.3	45.5
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°	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8	2957.8
2.5°	2929.4	2906.2	2883.9	2857.0	2828.9	2797.5	2781.8	2766.2	2762.2	2757.6	2741.9
5°	2848.5	2816.0	2760.0	2698.2	2633.2	2569.8	2521.6	2491.4	2468.4	2456.5	2435.8
7.5°	2744.2	2696.6	2598.4	2491.9	2382.6	2282.8	2196.4	2142.0	2090.4	2066.3	2038.9
10°	2645.0	2573.7	2421.2	2264.3	2107.2	1956.4	1814.5	1714.1	1625.0	1575.1	1539.8
12.5°	2559.8	2462.3	2250.9	2038.3	1823.0	1608.1	1395.6	1228.6	1088.9	1015.5	978.0
15°	2476.7	2358.9	2088.7	1819.1	1542.6	1250.4	971.2	781.6	666.2	620.2	604.5
17.5°	2401.7	2250.9	1926.1	1598.2	1253.2	900.0	652.7	548.3	504.0	488.9	483.8
20°	2320.3	2141.5	1757.4	1367.1	951.6	629.2	509.7	463.7	445.7	441.2	439.0
22.5°	2241.8	2033.9	1595.8	1119.7	683.5	485.7	438.0	418.9	416.1	420.0	420.0
25°	2175.1	1937.4	1421.5	861.2	501.9	408.8	392.0	387.4	398.0	412.7	415.5
27.5°	2125.2	1858.2	1235.9	635.9	399.7	355.5	354.9	362.2	388.5	416.6	422.3
30°	2091.0	1783.1	1037.4	458.7	335.2	312.9	321.9	337.6	376.3	416.1	426.8
32.5°	2073.6	1727.6	830.5	354.9	287.1	274.7	290.0	308.9	347.0	384.1	398.0
35°	2087.0	1686.7	635.3	296.1	253.4	243.9	259.6	278.1	300.6	316.3	327.0
37.5°	2137.5	1670.5	479.4	265.2	230.4	221.5	233.7	244.5	253.4	258.0	262.9
40°	2246.3	1687.8	384.1	249.5	217.6	206.3	211.5	215.4	221.0	225.5	227.7
42.5°	2406.6	1739.9	344.3	243.4	210.8	194.6	193.4	195.1	202.4	210.8	212.4
45°	2631.0	1832.0	341.4	247.4	207.5	185.1	180.0	182.3	193.4	206.3	208.5
47.5°	2917.5	1972.0	364.0	259.0	210.3	180.0	171.5	174.5	188.5	205.8	208.5
50°	3264.6	2167.8	401.5	276.5	222.6	181.1	168.8	170.5	185.1	204.2	206.9
52.5°	3674.4	2445.4	442.4	293.2	235.5	188.5	171.0	167.2	180.6	197.4	200.7
55°	4130.3	2801.5	484.5	308.4	242.3	197.4	175.4	162.7	172.1	186.2	189.0
57.5°	4690.1	3299.4	557.4	323.0	246.8	203.6	180.0	158.1	161.4	171.5	173.8
60°	5447.5	4003.7	685.8	347.0	256.8	205.8	179.4	154.1	150.8	156.5	157.6
62.5°	6355.4	4768.6	792.8	377.4	273.7	207.5	176.1	151.5	141.8	141.8	143.0
65°	6894.2	4973.1	733.5	402.6	287.6	205.8	172.1	148.6	135.1	128.9	129.5
67.5°	6437.3	4373.8	628.5	407.7	287.1	197.9	165.9	143.5	128.4	118.8	118.2
69°	5864.8	3773.8	581.6	394.1	273.7	187.8	158.1	137.9	123.3	113.2	112.6
70°	5403.2	3407.6	550.7	379.7	259.0	180.6	152.0	132.9	119.5	110.0	108.8
72.5°	3928.5	2232.8	470.4	326.4	213.6	151.5	131.2	116.6	106.5	100.9	99.8
75°	1963.2	1064.9	381.9	264.7	163.8	121.1	107.6	97.6	92.5	91.4	90.9
77.5°	644.9	487.8	273.1	197.4	121.7	94.9	87.0	79.6	78.5	81.8	80.8
80°	354.4	283.8	173.3	130.7	83.1	69.4	68.5	64.5	66.1	71.8	70.6
82.5°	180.6	147.5	107.1	78.5	56.1	49.9	54.3	52.1	54.3	59.5	58.8
85°	89.1	80.8	67.8	47.7	37.0	32.0	38.6	40.3	41.5	45.5	45.5
87.5°	51.7	47.7	35.9	22.5	18.5	16.8	22.5	21.9	25.8	28.0	27.5
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)