

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: P190979

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-AFL-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7175 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

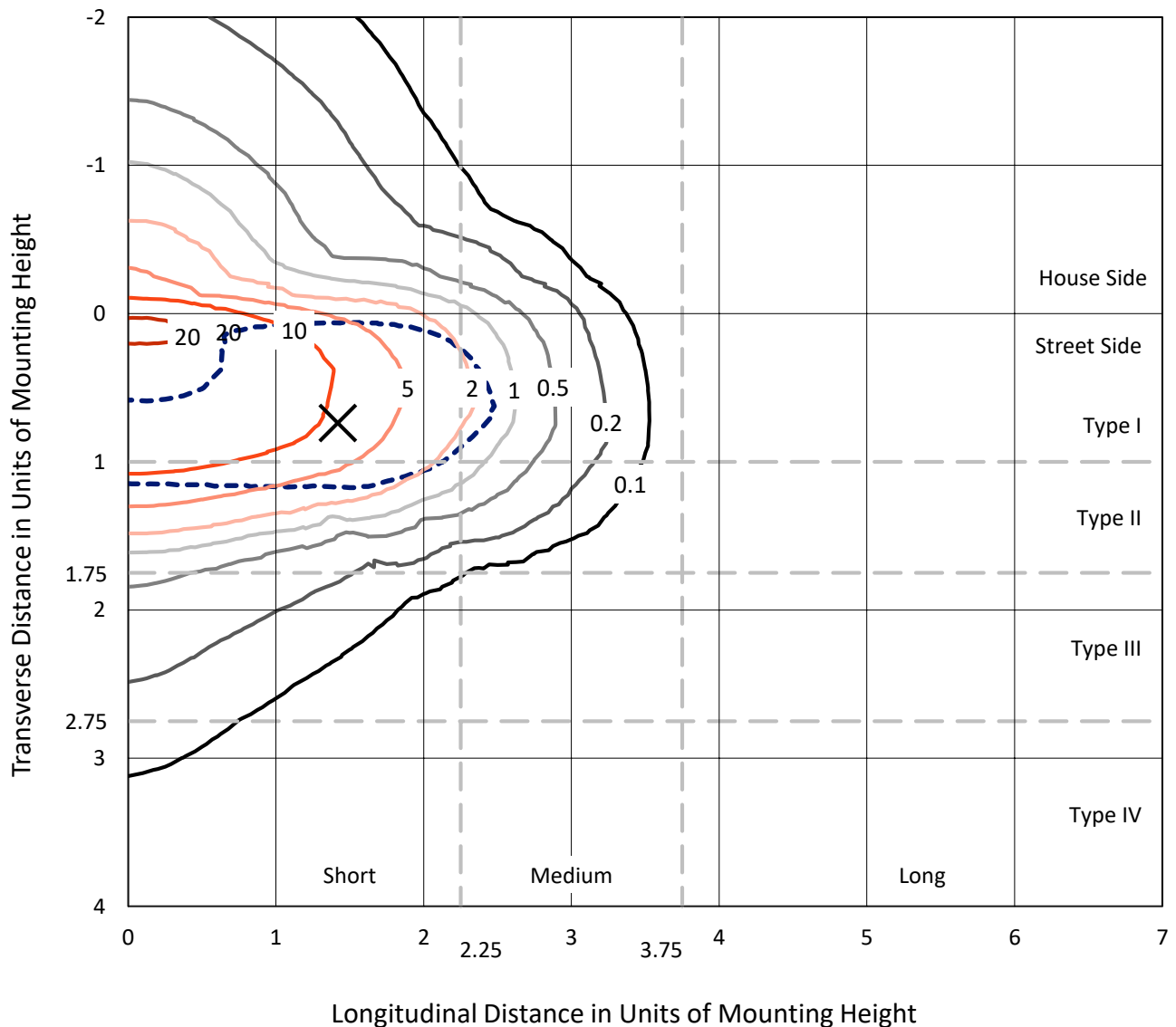
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

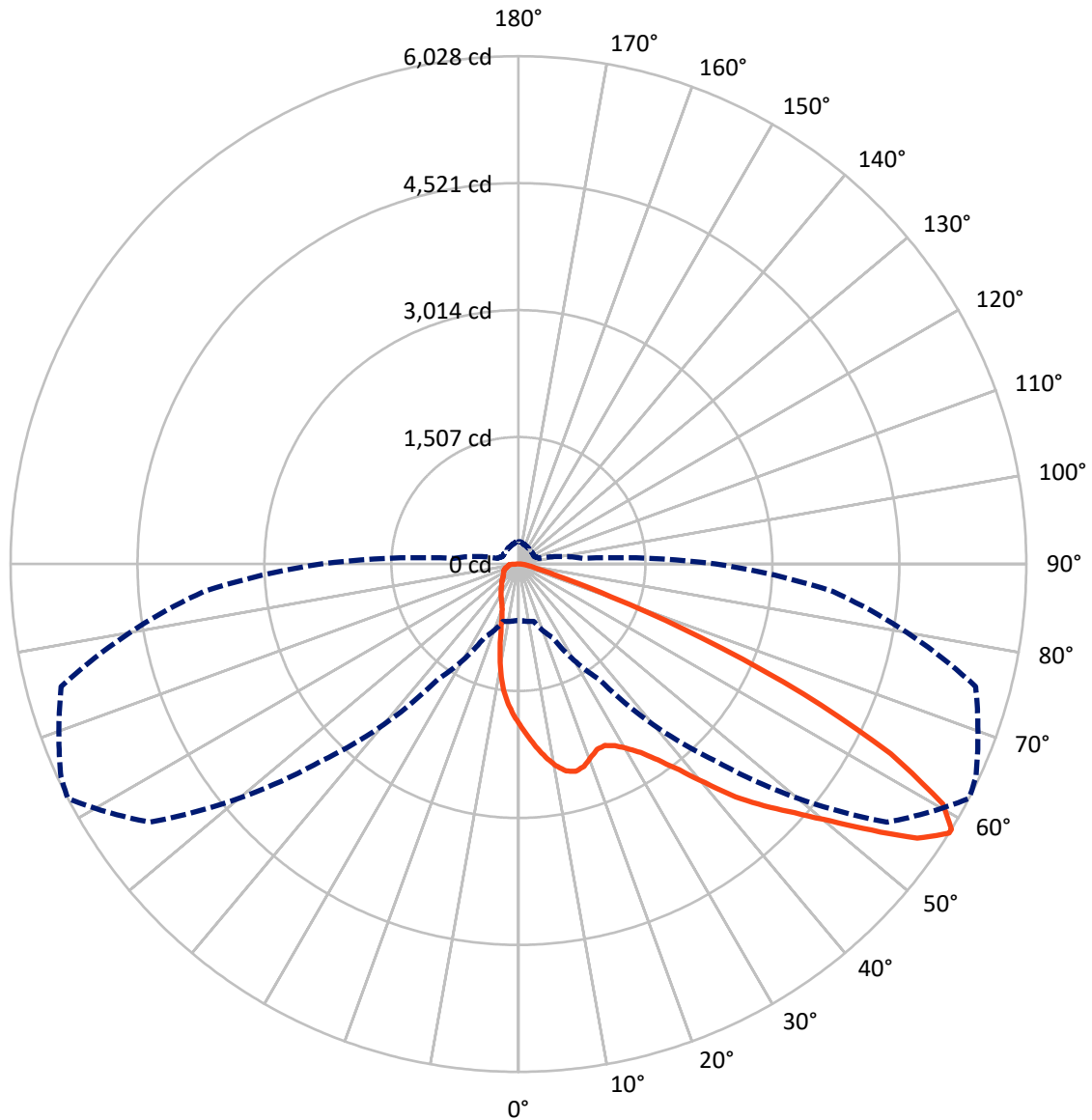
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1094.2	0.0	1094.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	6080.8	0.0	6080.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	7175.0	0.0	7175.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	2.4
10°-20°	435.7	6.1
20°-30°	704.3	9.8
30°-40°	1118.1	15.6
40°-50°	1636.1	22.8
50°-60°	1711.2	23.8
60°-70°	1011.0	14.1
70°-80°	284.8	4.0
80°-90°	103.4	1.4
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°	7175.0	100.0
0°-180°	7175.0	100.0



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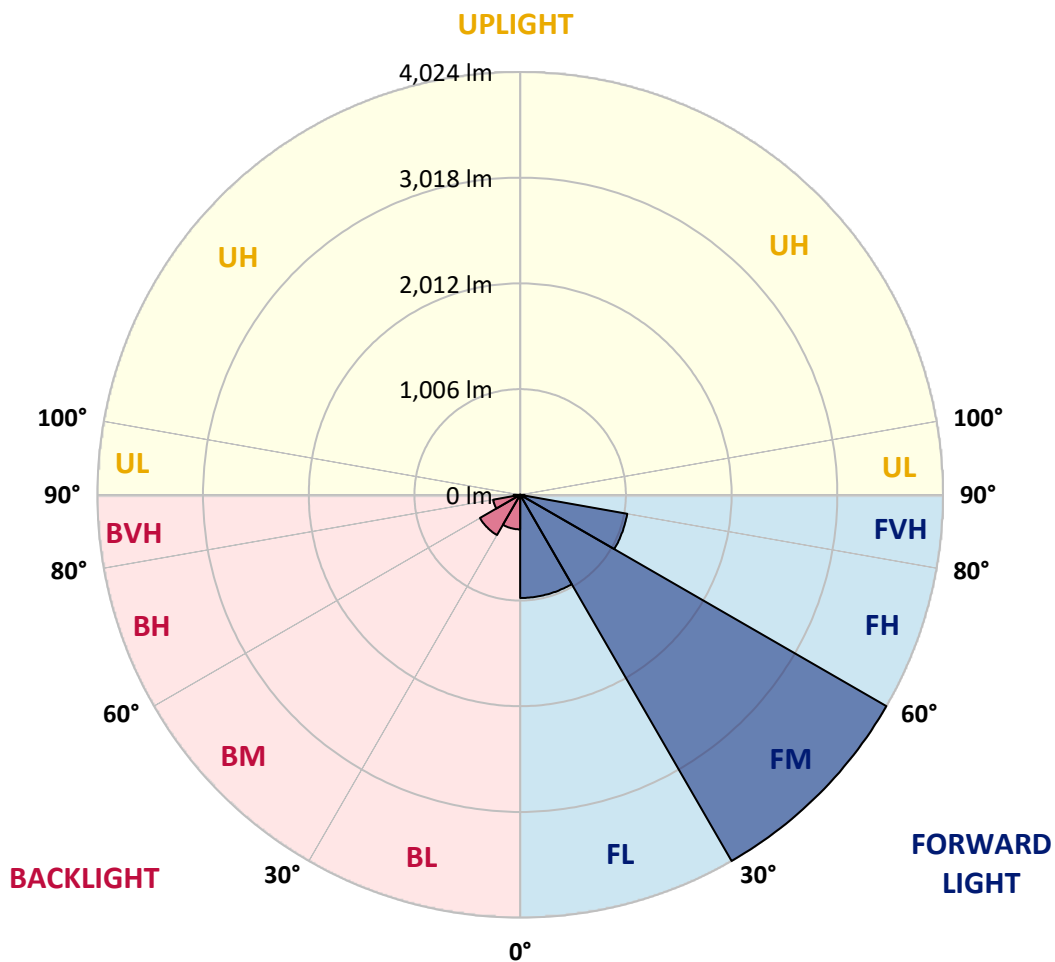
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	981.6	13.7			
FM	(30°-60°)	4023.7	56.1			
FH	(60°-80°)	1034.7	14.4			G1/1800
FVH	(80°-90°)	40.8	0.6			G1/100
BL	(0°-30°)	328.9	4.6	B1/500		
BM	(30°-60°)	441.7	6.2	B1/1000		
BH	(60°-80°)	261.1	3.6	B1/500		G1/500
BVH	(80°-90°)	62.6	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1905.9	1905.9	1905.9	1905.9	1905.9	1905.9	1905.9	1905.9	1905.9	1905.9	1905.9
2.5°	2177.9	2160.3	2149.1	2139.4	2126.5	2099.1	2062.3	2039.0	2027.2	1987.0	1939.3
5°	2391.4	2375.8	2364.3	2351.2	2328.2	2285.3	2225.8	2178.6	2155.3	2074.9	1979.5
7.5°	2341.4	2347.8	2367.7	2402.5	2432.3	2426.5	2373.5	2313.3	2282.6	2170.8	2026.2
10°	2040.0	2051.1	2085.6	2167.0	2298.8	2434.0	2475.2	2433.6	2402.5	2265.7	2074.1
12.5°	1979.5	1979.2	1981.9	2003.6	2081.9	2272.2	2478.6	2520.4	2501.8	2356.3	2123.1
15°	2004.2	2004.9	2002.8	2011.9	2036.3	2111.7	2375.2	2553.9	2567.1	2447.5	2173.8
17.5°	2069.1	2067.4	2059.6	2059.6	2068.4	2097.8	2253.6	2522.8	2583.7	2528.2	2218.4
20°	2177.9	2170.1	2149.5	2130.6	2121.1	2136.9	2203.5	2451.2	2554.9	2598.8	2255.2
22.5°	2309.6	2303.6	2270.1	2229.5	2196.8	2196.5	2229.2	2388.7	2505.2	2665.4	2286.3
25°	2479.9	2470.1	2420.4	2355.5	2298.2	2276.2	2285.3	2385.6	2478.2	2737.7	2314.0
27.5°	2679.9	2662.0	2603.2	2509.6	2425.2	2380.9	2367.7	2440.8	2502.9	2827.2	2352.6
30°	2922.5	2901.9	2826.5	2704.6	2585.3	2512.7	2484.6	2538.4	2584.7	2936.4	2414.4
32.5°	3198.6	3168.8	3081.6	2947.2	2790.4	2679.6	2634.0	2667.4	2704.3	3067.8	2491.7
35°	3580.0	3544.5	3418.5	3233.0	3056.0	2903.6	2830.6	2855.0	2890.8	3263.7	2603.6
37.5°	3840.2	3824.3	3740.5	3566.1	3373.6	3198.3	3085.3	3099.5	3119.8	3508.7	2746.8
40°	3837.8	3844.2	3845.9	3847.6	3716.5	3548.6	3427.3	3412.5	3408.4	3777.7	2909.7
42.5°	3645.6	3671.9	3757.0	3929.7	4009.5	3932.4	3821.2	3778.4	3757.0	4094.6	3082.4
45°	3351.3	3365.4	3524.9	3862.2	4159.4	4312.5	4228.4	4093.2	4054.7	4385.8	3225.6
47.5°	3199.6	3215.1	3315.5	3683.0	4157.8	4619.6	4668.2	4410.8	4341.9	4639.2	3349.2
50°	2838.4	2870.8	2997.1	3371.5	4006.1	4760.8	5128.1	4789.3	4646.7	4885.8	3473.2
52.5°	2175.2	2225.1	2366.7	2859.4	3621.2	4690.8	5496.0	5248.0	5046.6	5141.2	3579.6
55°	1372.1	1409.2	1528.2	2019.4	2896.8	4327.0	5635.5	5744.4	5565.3	5383.2	3671.9
57.5°	746.0	762.5	807.1	1114.9	1884.3	3522.5	5432.2	6026.8	5952.4	5588.6	3741.5
58°	667.6	678.7	706.4	966.3	1671.1	3302.6	5342.0	6027.8	5990.6	5618.7	3746.9
60°	495.3	489.6	464.9	551.4	930.2	2281.6	4796.6	5786.6	5895.7	5655.5	3720.6
62.5°	435.2	421.4	371.0	365.2	452.3	1051.1	3670.2	4956.8	5214.6	5445.4	3560.4
65°	408.8	393.9	329.1	308.1	326.4	444.7	2162.0	3717.5	4040.9	4808.2	3150.9
67.5°	389.2	370.0	302.4	273.6	275.1	293.9	866.6	2341.4	2705.3	3650.6	2450.9
70°	370.3	349.3	279.8	246.6	238.9	232.4	344.6	1172.1	1502.1	2305.9	1562.7
72.5°	350.1	329.4	259.8	225.4	210.1	188.8	225.0	479.5	669.6	1091.0	708.8
75°	320.6	302.1	239.9	206.4	184.8	156.4	169.9	250.3	300.3	434.4	341.6
77.5°	284.5	269.2	217.6	190.9	163.9	127.1	130.7	173.7	192.6	248.7	203.1
80°	204.4	209.8	193.6	171.7	146.0	103.0	100.4	126.7	136.9	159.8	132.1
82.5°	143.6	146.6	160.2	140.2	120.6	81.1	74.0	89.2	95.2	105.1	71.3
85°	99.0	95.6	109.8	97.7	87.2	54.0	50.6	60.5	64.2	65.2	36.8
87.5°	59.4	59.4	63.5	52.4	47.0	28.0	27.4	34.5	36.8	35.1	20.3
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°	1905.9	1905.9	1905.9	1905.9	1905.9	1905.9	1905.9	1905.9	1905.9	1905.9	1905.9
2.5°	1911.0	1886.9	1836.0	1795.1	1743.4	1689.6	1659.5	1627.5	1605.5	1589.7	1615.0
5°	1925.5	1876.5	1771.0	1671.1	1560.6	1445.7	1358.6	1277.5	1221.0	1185.9	1219.1
7.5°	1948.4	1873.1	1705.2	1534.2	1335.9	1144.7	973.7	866.6	804.1	773.4	792.6
10°	1974.8	1867.7	1627.8	1348.8	1065.0	824.1	696.3	653.1	638.9	633.2	635.9
12.5°	1996.8	1856.2	1532.9	1124.4	799.7	650.7	613.9	612.8	615.9	616.6	617.7
15°	2012.3	1839.4	1392.0	890.6	639.5	592.9	591.0	597.0	602.7	605.1	606.5
17.5°	2022.8	1804.5	1232.9	704.1	573.1	564.9	569.7	577.5	583.5	585.2	586.6
20°	2021.8	1753.5	1043.3	587.2	536.8	536.8	544.9	551.1	551.4	549.3	550.3
22.5°	2011.3	1683.6	859.5	525.1	504.7	510.6	518.6	512.9	489.2	473.7	474.6
25°	1993.7	1600.1	702.1	485.5	475.1	485.2	482.8	439.6	405.8	390.6	390.6
27.5°	1978.2	1501.5	581.1	451.0	445.3	457.8	415.9	376.8	362.5	355.5	353.0
30°	1967.0	1395.0	500.3	418.0	417.3	408.2	360.8	350.1	347.7	341.9	339.9
32.5°	1969.7	1287.3	448.7	388.9	391.3	349.3	334.5	336.9	334.8	328.8	326.0
35°	1992.0	1184.9	414.9	362.5	355.5	315.6	319.0	323.4	322.6	314.3	311.5
37.5°	2031.9	1087.9	392.6	340.5	310.2	298.7	304.1	310.9	309.1	303.4	301.4
40°	2073.8	996.7	374.4	323.4	283.5	287.1	292.0	295.6	297.3	299.0	297.7
42.5°	2114.6	901.4	352.1	305.8	272.3	276.4	278.4	282.1	291.2	297.7	297.3
45°	2139.0	811.9	329.1	280.8	263.5	265.9	264.5	272.0	283.2	293.6	293.9
47.5°	2166.0	742.3	310.9	257.8	255.1	256.8	252.8	260.1	270.3	283.2	284.5
50°	2198.8	700.7	296.3	239.6	243.6	243.6	242.5	249.3	263.5	278.4	281.1
52.5°	2236.0	692.6	284.2	226.4	232.1	231.8	232.8	243.0	258.5	273.0	275.4
55°	2281.3	714.5	271.0	216.6	221.0	222.3	225.7	237.2	250.3	266.9	267.9
57.5°	2334.0	759.1	260.4	208.8	210.8	215.2	220.7	231.1	245.3	263.5	264.5
58°	2342.8	768.6	258.8	208.2	208.8	213.9	219.9	230.1	244.3	264.2	265.3
60°	2343.1	800.0	255.1	205.1	201.0	209.5	216.3	226.4	242.5	266.6	268.9
62.5°	2260.0	799.7	252.4	200.7	192.9	203.4	211.1	223.0	240.9	272.3	277.0
65°	1990.0	726.7	239.6	194.0	186.5	197.9	206.7	220.7	245.6	297.3	300.3
67.5°	1556.5	595.7	215.5	184.4	178.1	192.6	204.1	220.2	250.7	303.1	305.0
70°	1029.1	445.6	189.2	173.7	169.3	186.2	205.4	231.8	245.0	290.9	285.5
72.5°	534.2	312.8	168.0	160.2	159.2	180.4	225.0	230.5	239.2	273.6	266.9
75°	280.4	217.3	149.4	145.3	147.0	179.0	265.6	224.3	231.8	261.9	274.7
77.5°	171.7	175.3	133.5	131.8	135.1	175.0	265.3	216.6	221.0	240.9	255.1
80°	114.9	142.2	121.3	121.6	124.0	160.2	238.1	204.4	207.8	227.7	242.2
82.5°	72.6	84.1	110.2	115.9	112.8	132.1	202.3	186.2	190.9	260.4	275.4
85°	36.8	52.7	95.6	111.5	101.7	92.6	164.2	163.2	165.5	187.8	196.3
87.5°	16.9	29.1	74.7	97.3	76.7	57.8	119.3	120.9	130.4	133.5	133.5
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)