

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: P269054

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269054
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-02-LED-E1-AFL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7152 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 66
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

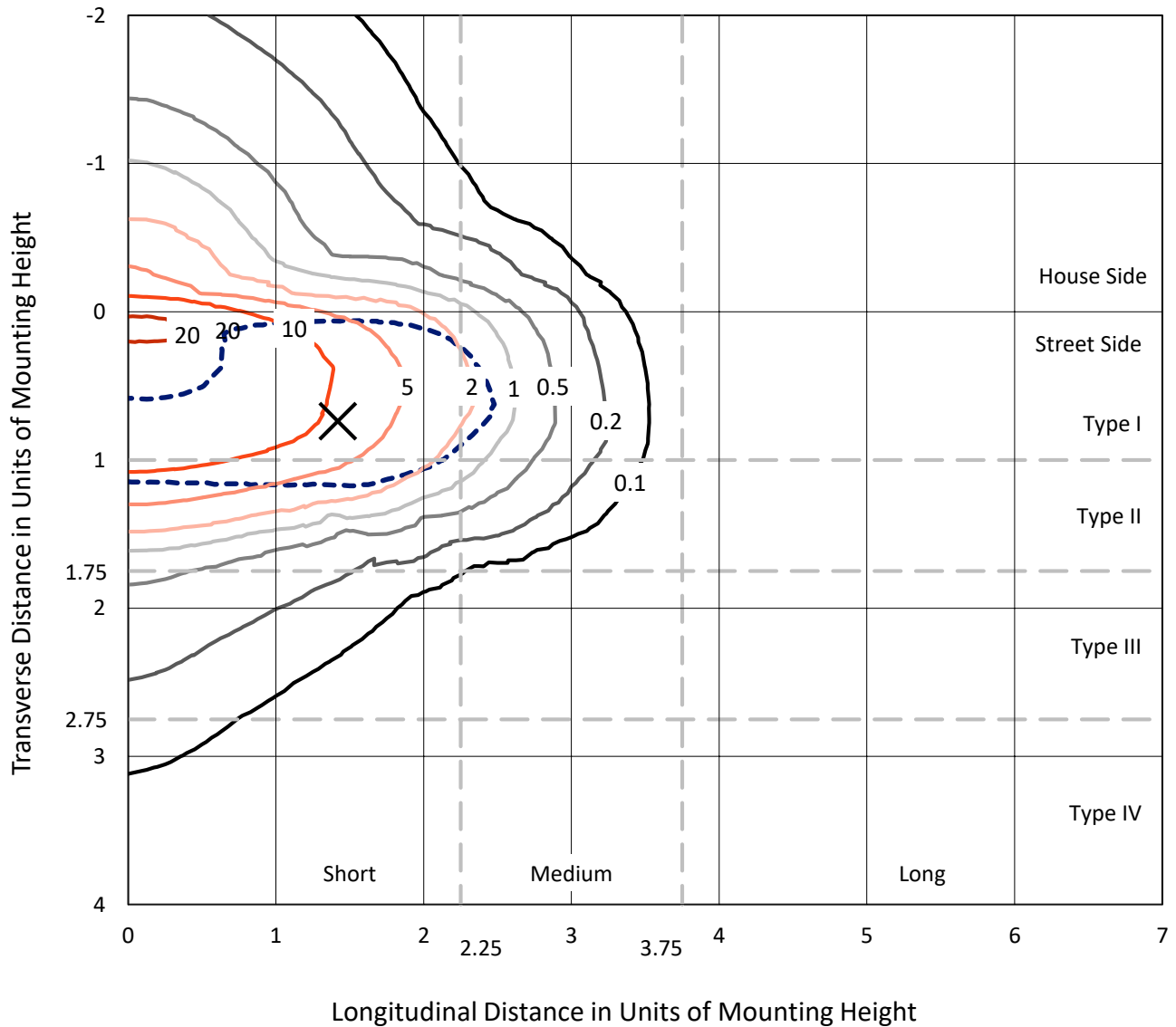


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Iso-Footcandle Lines of Horizontal Illumination

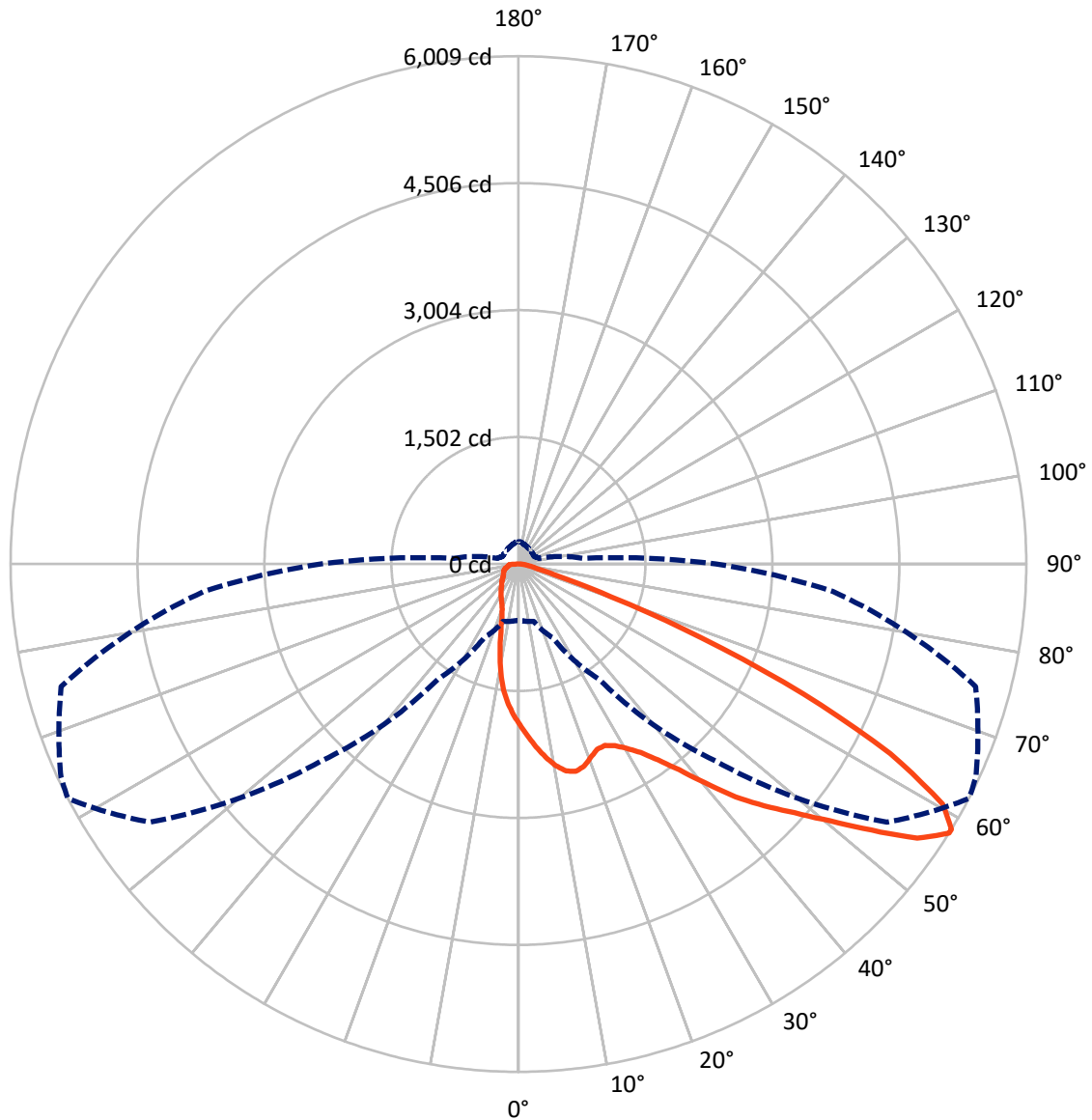
✕ Max cd
 - - - 1/2 Max cd



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	1090.7	0.0	1090.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	6061.3	0.0	6061.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	7152.0	0.0	7152.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	2.4
10°-20°	434.3	6.1
20°-30°	702.1	9.8
30°-40°	1114.5	15.6
40°-50°	1630.8	22.8
50°-60°	1705.7	23.8
60°-70°	1007.7	14.1
70°-80°	283.9	4.0
80°-90°	103.1	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°	7152.0	100.0
0°-180°	7152.0	100.0



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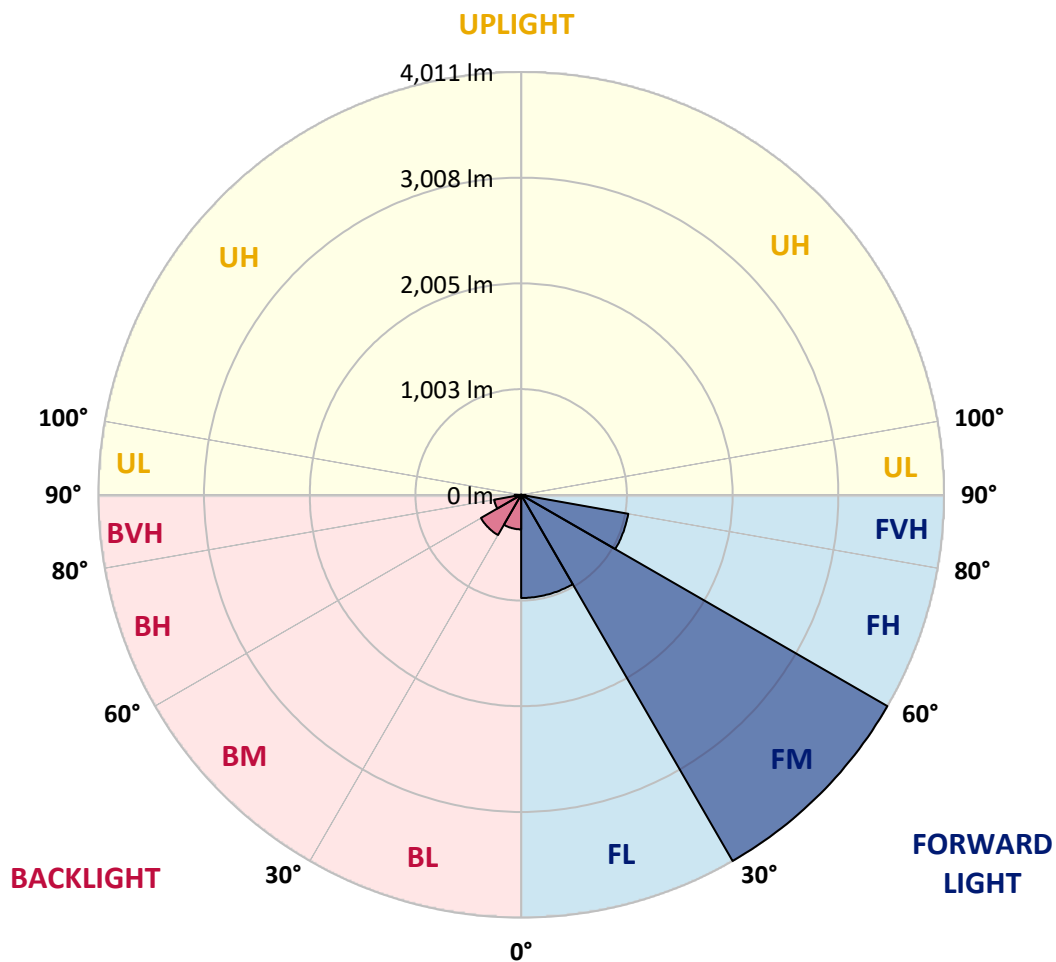
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	978.5	13.7			
FM	(30°-60°)	4010.8	56.1			
FH	(60°-80°)	1031.4	14.4			G1/1800
FVH	(80°-90°)	40.7	0.6			G1/100
BL	(0°-30°)	327.8	4.6	B1/500		
BM	(30°-60°)	440.2	6.2	B1/1000		
BH	(60°-80°)	260.3	3.6	B1/500		G1/500
BVH	(80°-90°)	62.4	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°	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7
2.5°	2170.9	2153.3	2142.3	2132.5	2119.7	2092.4	2055.7	2032.4	2020.6	1980.7	1933.2
5°	2383.7	2368.2	2356.9	2343.7	2320.9	2278.0	2218.8	2171.7	2148.3	2068.2	1973.1
7.5°	2333.8	2340.4	2360.1	2394.9	2424.5	2418.7	2365.9	2305.9	2275.2	2163.8	2019.7
10°	2033.6	2044.6	2078.9	2160.2	2291.4	2426.2	2467.3	2425.9	2394.9	2258.5	2067.4
12.5°	1973.1	1972.9	1975.6	1997.1	2075.3	2264.8	2470.7	2512.4	2493.9	2348.7	2116.3
15°	1997.8	1998.5	1996.5	2005.6	2029.8	2104.9	2367.7	2545.7	2558.9	2439.6	2166.9
17.5°	2062.5	2060.8	2053.0	2053.0	2061.8	2091.1	2246.3	2514.7	2575.4	2520.1	2211.3
20°	2170.9	2163.2	2142.5	2123.8	2114.3	2130.2	2196.4	2443.4	2546.8	2590.5	2248.0
22.5°	2302.3	2296.2	2262.8	2222.4	2189.8	2189.3	2222.0	2381.0	2497.3	2656.8	2279.0
25°	2472.0	2462.3	2412.7	2348.1	2290.8	2268.8	2278.0	2378.1	2470.2	2729.0	2306.7
27.5°	2671.4	2653.6	2594.9	2501.6	2417.3	2373.3	2360.1	2432.9	2495.0	2818.3	2345.0
30°	2913.2	2892.6	2817.5	2696.0	2577.1	2504.7	2476.6	2530.3	2576.3	2926.9	2406.6
32.5°	3188.4	3158.7	3071.8	2937.7	2781.5	2671.0	2625.6	2659.0	2695.6	3058.0	2483.8
35°	3568.5	3533.3	3407.6	3222.7	3046.2	2894.2	2821.5	2845.8	2881.6	3253.3	2595.3
37.5°	3827.9	3812.0	3728.5	3554.8	3362.7	3187.9	3075.4	3089.7	3109.8	3497.6	2738.0
40°	3825.5	3831.9	3833.5	3835.4	3704.6	3537.3	3416.3	3401.5	3397.5	3765.5	2900.4
42.5°	3634.0	3660.1	3745.0	3917.1	3996.6	3919.8	3809.1	3766.2	3745.0	4081.4	3072.6
45°	3340.5	3354.7	3513.7	3849.7	4146.1	4298.7	4214.8	4080.1	4041.7	4371.8	3215.3
47.5°	3189.3	3204.9	3304.9	3671.4	4144.5	4604.8	4653.3	4396.8	4328.0	4624.4	3338.6
50°	2829.3	2861.6	2987.7	3360.7	3993.2	4745.7	5111.7	4774.0	4631.8	4870.3	3462.2
52.5°	2168.1	2218.1	2359.2	2850.2	3609.7	4675.9	5478.5	5231.3	5030.6	5124.8	3568.2
55°	1367.7	1404.7	1523.3	2012.9	2887.6	4313.2	5617.6	5725.9	5547.6	5365.9	3660.1
57.5°	743.5	760.1	804.6	1111.5	1878.3	3511.4	5414.9	6007.5	5933.5	5570.7	3729.6
58°	665.5	676.7	704.2	963.3	1665.7	3292.1	5325.0	6008.6	5971.6	5600.8	3735.0
60°	493.7	488.0	463.4	549.7	927.2	2274.2	4781.3	5768.0	5876.9	5637.5	3708.7
62.5°	433.8	420.0	369.8	364.1	450.9	1047.8	3658.4	4940.9	5198.0	5428.0	3549.1
65°	407.6	392.6	328.1	307.1	325.4	443.3	2155.0	3705.7	4027.9	4792.7	3140.8
67.5°	388.0	368.8	301.4	272.7	274.2	292.9	863.8	2333.8	2696.6	3638.9	2443.0
70°	369.2	348.3	278.8	245.9	238.1	231.8	343.5	1168.2	1497.4	2298.6	1557.7
72.5°	348.9	328.4	259.0	224.7	209.5	188.3	224.2	477.9	667.5	1087.5	706.5
75°	319.5	301.1	239.0	205.8	184.2	155.9	169.4	249.5	299.3	433.2	340.5
77.5°	283.5	268.5	216.9	190.4	163.3	126.7	130.3	173.2	192.0	247.8	202.4
80°	203.7	209.1	193.0	171.0	145.4	102.8	100.0	126.3	136.5	159.3	131.7
82.5°	143.1	146.2	159.5	139.7	120.3	80.8	73.8	88.9	95.0	104.7	71.1
85°	98.6	95.3	109.5	97.3	86.9	53.9	50.6	60.2	64.0	64.9	36.7
87.5°	59.3	59.3	63.3	52.2	46.8	27.9	27.3	34.3	36.7	35.0	20.2
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°	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7	1899.7
2.5°	1904.9	1881.0	1830.0	1789.3	1737.9	1684.2	1654.3	1622.2	1600.4	1584.6	1609.9
5°	1919.3	1870.5	1765.3	1665.7	1555.7	1441.2	1354.3	1273.3	1217.2	1182.1	1215.0
7.5°	1942.2	1867.1	1699.8	1529.4	1331.6	1141.0	970.6	863.8	801.6	770.8	790.1
10°	1968.5	1861.7	1622.6	1344.5	1061.5	821.4	694.1	651.0	636.9	631.1	633.8
12.5°	1990.4	1850.2	1527.9	1120.8	797.2	648.7	611.9	610.9	613.9	614.6	615.7
15°	2005.8	1833.4	1387.5	887.7	637.5	591.1	589.0	595.0	600.8	603.2	604.5
17.5°	2016.3	1798.8	1228.9	701.8	571.2	563.1	567.8	575.5	581.7	583.3	584.6
20°	2015.3	1747.9	1040.0	585.3	535.1	535.1	543.3	549.4	549.7	547.5	548.7
22.5°	2004.8	1678.3	856.8	523.4	503.1	508.9	517.0	511.2	487.7	472.1	473.1
25°	1987.4	1595.0	699.8	483.9	473.5	483.6	481.2	438.2	404.4	389.3	389.3
27.5°	1971.9	1496.7	579.2	449.6	443.9	456.3	414.6	375.5	361.4	354.3	352.0
30°	1960.8	1390.5	498.7	416.6	415.9	406.8	359.7	348.9	346.6	340.8	338.8
32.5°	1963.4	1283.1	447.3	387.7	390.0	348.3	333.5	335.7	333.8	327.7	324.9
35°	1985.7	1181.1	413.6	361.4	354.3	314.5	317.9	322.3	321.7	313.1	310.5
37.5°	2025.4	1084.4	391.3	339.5	309.1	297.7	303.1	309.8	308.2	302.4	300.5
40°	2067.2	993.5	373.2	322.3	282.5	286.3	291.1	294.6	296.4	298.1	296.7
42.5°	2108.0	898.6	351.0	304.7	271.5	275.5	277.4	281.2	290.3	296.7	296.4
45°	2132.1	809.4	328.1	279.8	262.7	265.0	263.7	271.1	282.2	292.7	292.9
47.5°	2159.2	739.9	309.8	256.9	254.3	255.9	252.0	259.3	269.4	282.2	283.5
50°	2191.8	698.5	295.4	238.8	242.8	242.8	241.9	248.6	262.7	277.4	280.2
52.5°	2228.9	690.3	283.2	225.7	231.4	231.0	232.0	242.2	257.6	272.1	274.5
55°	2274.0	712.3	270.1	216.0	220.3	221.6	224.9	236.4	249.5	266.1	267.1
57.5°	2326.5	756.7	259.7	208.1	210.2	214.5	219.9	230.3	244.5	262.7	263.7
58°	2335.2	766.2	258.0	207.5	208.1	213.2	219.2	229.3	243.5	263.4	264.5
60°	2335.7	797.5	254.3	204.5	200.4	208.8	215.6	225.7	241.9	265.7	268.1
62.5°	2252.8	797.2	251.5	200.1	192.2	202.7	210.6	222.3	240.1	271.5	276.1
65°	1983.6	724.5	238.8	193.3	185.9	197.4	206.2	219.9	244.9	296.4	299.3
67.5°	1551.6	593.8	214.9	184.0	177.4	192.0	203.5	219.5	249.9	302.1	304.2
70°	1025.9	444.2	188.6	173.2	168.7	185.6	204.8	231.0	244.2	290.0	284.7
72.5°	532.4	311.8	167.4	159.5	158.6	179.8	224.2	229.6	238.4	272.7	266.1
75°	279.6	216.5	148.8	144.7	146.6	178.6	264.7	223.6	231.0	261.0	273.9
77.5°	171.0	174.8	132.9	131.3	134.7	174.5	264.5	216.0	220.3	240.1	254.3
80°	114.5	141.8	120.9	121.2	123.5	159.5	237.4	203.7	207.1	227.0	241.5
82.5°	72.5	83.8	109.9	115.5	112.5	131.7	201.7	185.6	190.4	259.7	274.5
85°	36.7	52.6	95.3	111.1	101.4	92.3	163.8	162.7	165.0	187.2	195.7
87.5°	16.9	28.9	74.4	96.9	76.4	57.6	118.8	120.6	130.1	132.9	132.9
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)