

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: P200097

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200097
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: GWC-AF-01-LED-E1-AFL-1200
Description: GALLEON WALL 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: 7318.2 lumens
Efficiency: N/A
Efficacy: 109.2 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

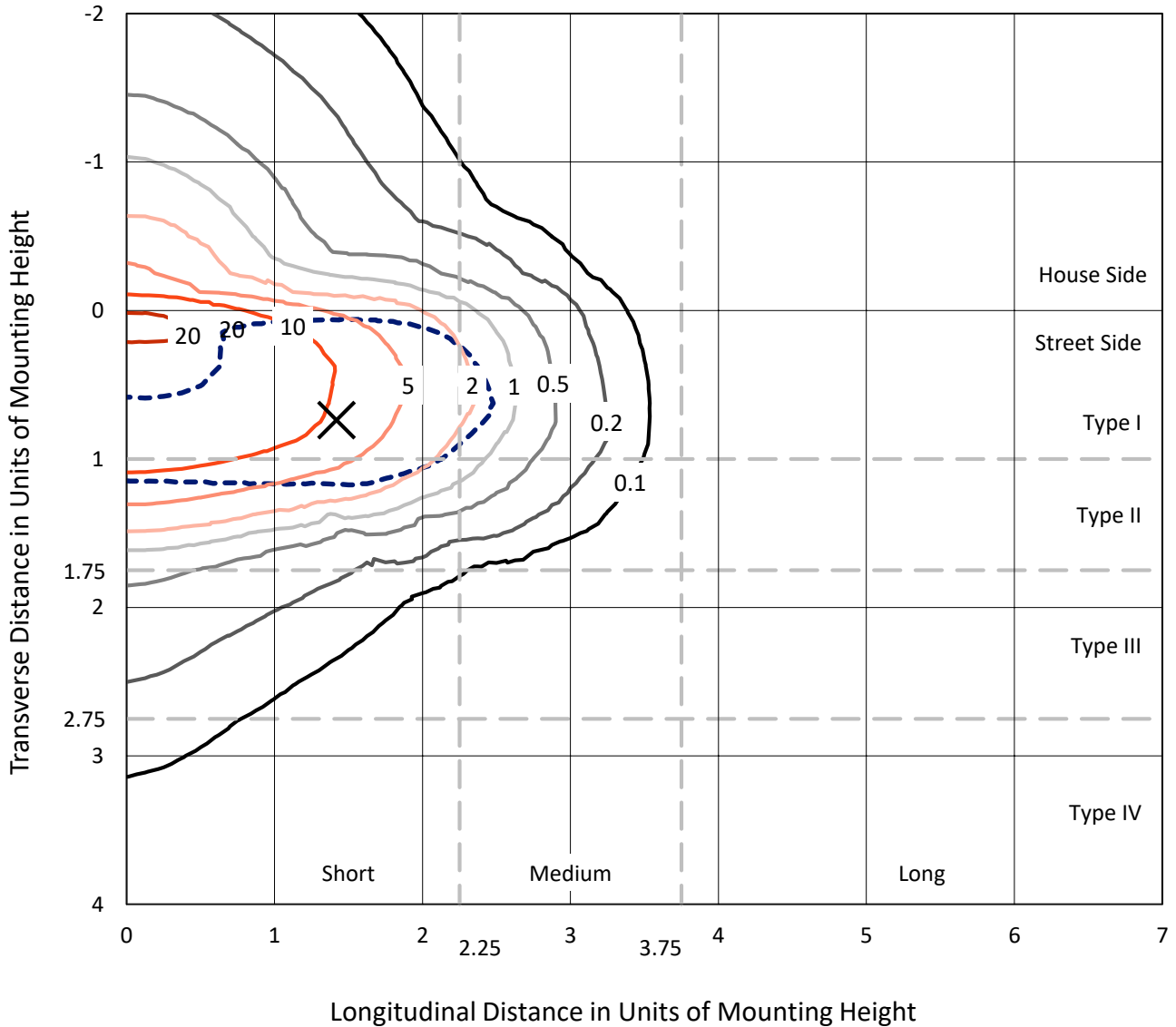
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

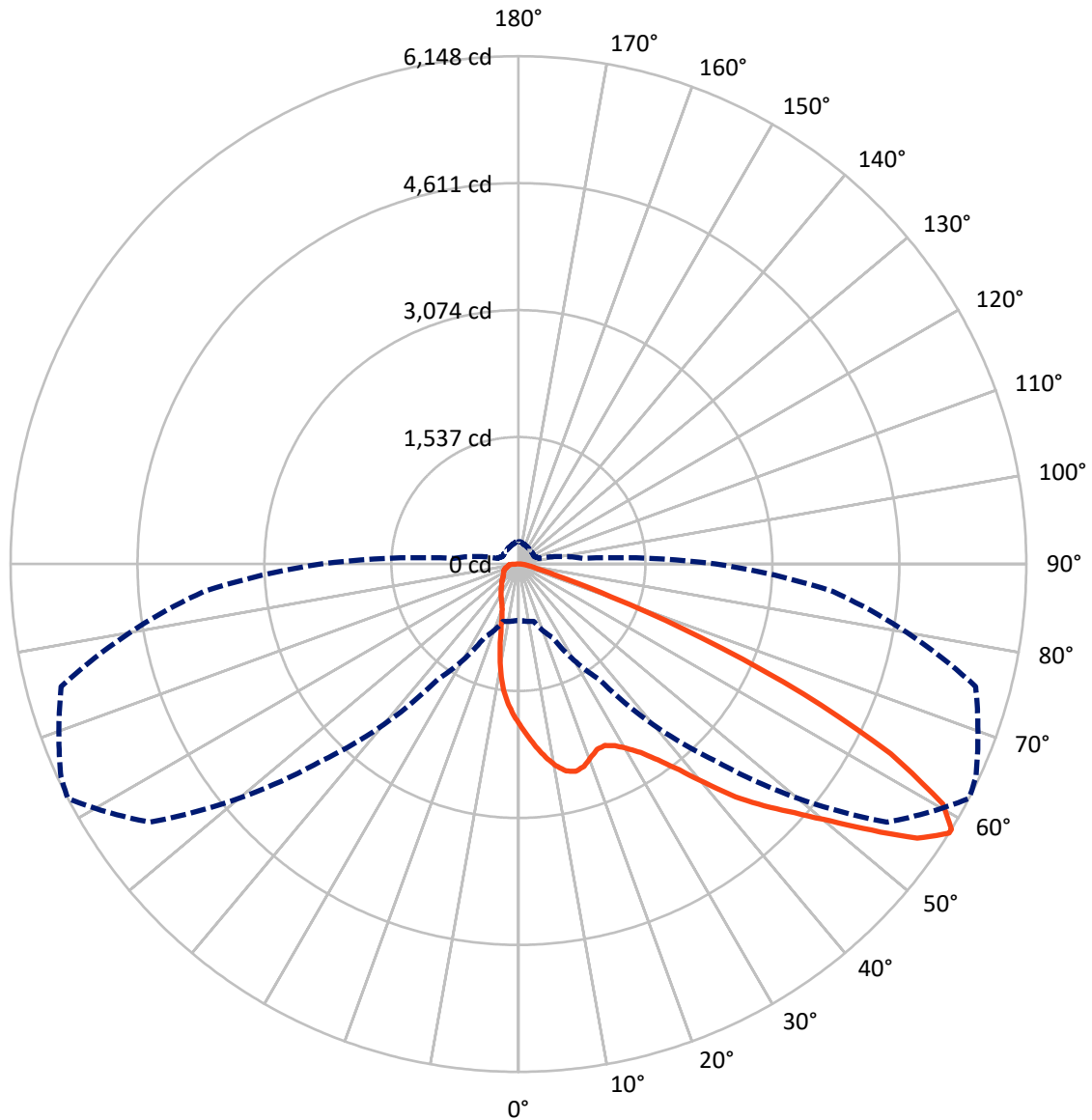
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.7 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	1116.1	0.0	1116.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	6202.1	0.0	6202.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	7318.2	0.0	7318.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	2.4
10°-20°	444.4	6.1
20°-30°	718.4	9.8
30°-40°	1140.4	15.6
40°-50°	1668.7	22.8
50°-60°	1745.3	23.8
60°-70°	1031.1	14.1
70°-80°	290.5	4.0
80°-90°	105.5	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°	7318.2	100.0
0°-180°	7318.2	100.0



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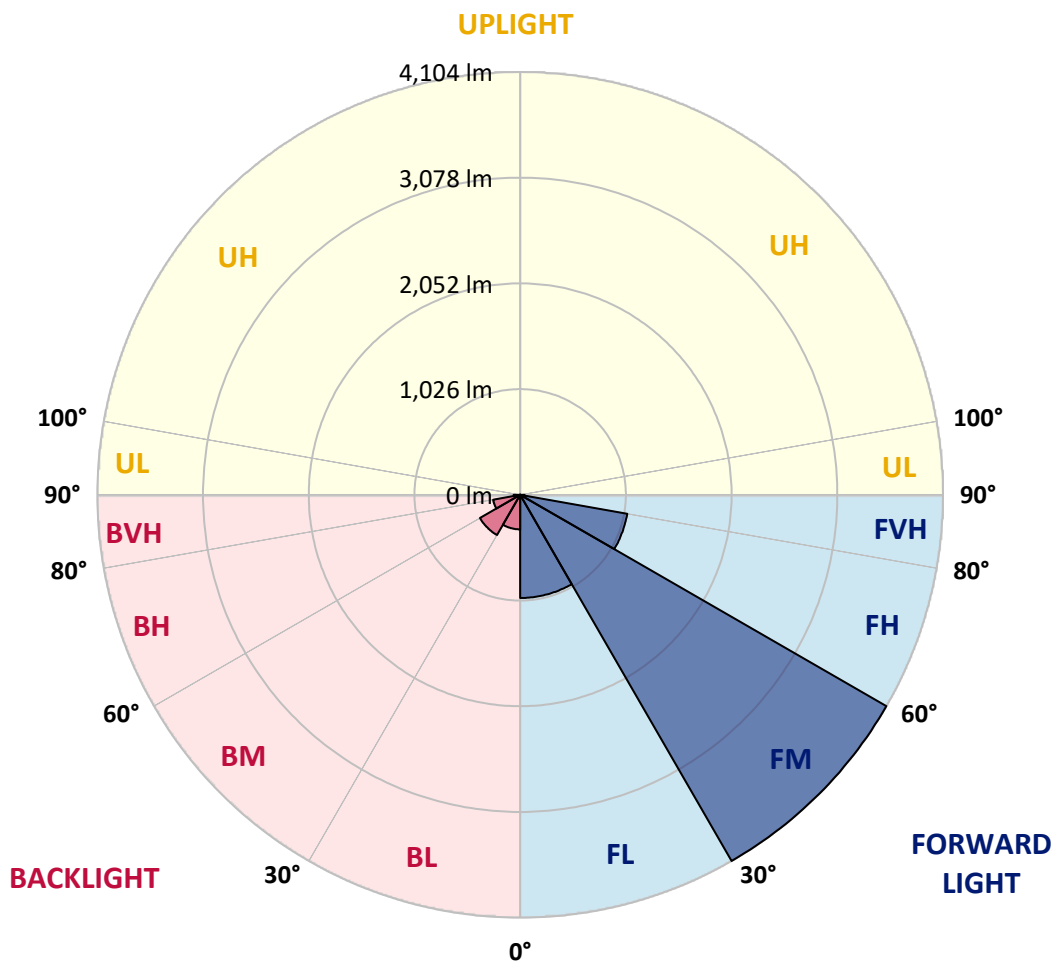
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1001.2	13.7			
FM	(30°-60°)	4104.0	56.1			
FH	(60°-80°)	1055.3	14.4			G1/1800
FVH	(80°-90°)	41.6	0.6			G1/100
BL	(0°-30°)	335.4	4.6	B1/500		
BM	(30°-60°)	450.5	6.2	B1/1000		
BH	(60°-80°)	266.3	3.6	B1/500		G1/500
BVH	(80°-90°)	63.9	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°	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9
2.5°	2221.3	2203.4	2192.1	2182.1	2169.0	2141.0	2103.5	2079.7	2067.7	2026.7	1978.1
5°	2439.1	2423.3	2411.6	2398.1	2374.7	2330.9	2270.2	2222.1	2198.2	2116.3	2019.1
7.5°	2388.1	2394.6	2415.0	2450.5	2480.9	2474.9	2420.9	2359.5	2328.1	2214.1	2066.6
10°	2080.8	2092.1	2127.2	2210.3	2344.7	2482.6	2524.5	2482.2	2450.5	2310.9	2115.6
12.5°	2019.1	2018.7	2021.5	2043.5	2123.4	2317.5	2528.0	2570.8	2551.9	2403.3	2165.5
15°	2044.2	2044.9	2042.8	2052.1	2076.9	2153.8	2422.6	2604.8	2618.3	2496.3	2217.2
17.5°	2110.3	2108.6	2100.7	2100.7	2109.7	2139.7	2298.6	2573.1	2635.2	2578.7	2262.7
20°	2221.3	2213.5	2192.4	2173.1	2163.4	2179.6	2247.5	2500.1	2606.0	2650.7	2300.2
22.5°	2355.8	2349.5	2315.4	2274.0	2240.7	2240.3	2273.7	2436.4	2555.2	2718.6	2331.9
25°	2529.5	2519.4	2468.8	2402.6	2344.0	2321.6	2330.9	2433.3	2527.7	2792.3	2360.3
27.5°	2733.4	2715.1	2655.2	2559.7	2473.6	2428.5	2415.0	2489.5	2552.9	2883.7	2399.5
30°	2980.9	2959.8	2883.0	2758.6	2637.0	2562.8	2534.3	2589.0	2636.2	2995.0	2462.5
32.5°	3262.4	3232.1	3143.1	3006.0	2846.2	2733.1	2686.6	2720.6	2758.3	3129.0	2541.5
35°	3651.4	3615.3	3486.7	3297.6	3116.9	2961.5	2887.1	2911.9	2948.5	3328.9	2655.6
37.5°	3916.8	3900.6	3815.1	3637.3	3440.9	3262.1	3146.9	3161.4	3182.1	3578.8	2801.7
40°	3914.4	3921.0	3922.7	3924.3	3790.6	3619.4	3495.7	3480.5	3476.4	3853.0	2967.8
42.5°	3718.3	3745.2	3832.1	4008.1	4089.5	4010.9	3897.5	3853.8	3832.1	4176.3	3143.8
45°	3418.2	3432.6	3595.3	3939.2	4242.5	4398.6	4312.8	4174.9	4135.6	4473.4	3289.9
47.5°	3263.4	3279.3	3381.7	3756.6	4240.7	4711.8	4761.4	4498.8	4428.6	4731.8	3416.0
50°	2895.1	2928.1	3057.0	3438.9	4086.0	4855.8	5230.4	4884.8	4739.3	4983.4	3542.6
52.5°	2218.6	2269.6	2414.0	2916.4	3693.5	4784.5	5605.8	5352.8	5147.4	5243.9	3651.1
55°	1399.5	1437.3	1558.7	2059.7	2954.7	4413.4	5748.1	5859.1	5676.4	5490.6	3745.2
57.5°	760.9	777.7	823.3	1137.2	1921.9	3592.9	5540.6	6147.1	6071.3	5700.2	3816.2
58°	681.0	692.3	720.6	985.6	1704.4	3368.6	5448.5	6148.1	6110.2	5730.8	3821.6
60°	505.2	499.3	474.1	562.4	948.7	2327.1	4892.4	5902.1	6013.4	5768.4	3794.8
62.5°	443.9	429.7	378.4	372.6	461.5	1072.1	3743.5	5055.7	5318.6	5554.0	3631.5
65°	417.0	401.8	335.6	314.3	332.9	453.5	2205.2	3791.7	4121.5	4904.1	3213.8
67.5°	397.0	377.4	308.4	279.2	280.5	299.8	883.9	2388.1	2759.3	3723.4	2499.8
70°	377.7	356.3	285.3	251.5	243.7	237.1	351.5	1195.4	1532.1	2352.0	1593.8
72.5°	357.0	336.0	265.0	229.9	214.3	192.6	229.6	489.0	683.0	1112.8	723.0
75°	327.0	308.1	244.7	210.5	188.5	159.6	173.3	255.3	306.4	443.1	348.4
77.5°	290.1	274.7	221.9	194.7	167.2	129.6	133.4	177.2	196.4	253.6	207.1
80°	208.5	214.0	197.4	175.0	148.8	105.1	102.4	129.2	139.5	163.0	134.7
82.5°	146.5	149.6	163.4	143.0	123.1	82.8	75.5	90.9	97.2	107.2	72.7
85°	101.0	97.5	112.0	99.6	88.9	55.1	51.7	61.7	65.5	66.5	37.5
87.5°	60.7	60.7	64.8	53.4	47.9	28.6	27.9	35.2	37.5	35.8	20.7
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°	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9	1943.9
2.5°	1949.1	1924.6	1872.6	1830.9	1778.2	1723.4	1692.7	1659.9	1637.5	1621.4	1647.3
5°	1964.0	1913.9	1806.4	1704.4	1591.7	1474.6	1385.7	1302.9	1245.4	1209.5	1243.3
7.5°	1987.4	1910.5	1739.2	1564.9	1362.6	1167.5	993.2	883.9	820.2	788.8	808.4
10°	2014.2	1904.9	1660.4	1375.7	1086.2	840.5	710.2	666.1	651.6	645.8	648.6
12.5°	2036.6	1893.3	1563.5	1146.8	815.7	663.7	626.1	625.1	628.2	628.9	629.9
15°	2052.4	1876.0	1419.8	908.4	652.3	604.8	602.7	609.0	614.8	617.1	618.6
17.5°	2063.2	1840.6	1257.5	718.1	584.4	576.2	581.0	588.9	595.2	596.9	598.2
20°	2062.2	1788.5	1064.2	598.9	547.6	547.6	555.9	562.0	562.4	560.4	561.4
22.5°	2051.4	1717.2	876.7	535.5	514.9	520.7	529.0	523.1	499.0	483.1	484.2
25°	2033.5	1632.0	716.1	495.2	484.5	494.9	492.4	448.4	413.9	398.3	398.3
27.5°	2017.7	1531.5	592.7	460.0	454.2	467.0	424.2	384.2	369.8	362.5	360.1
30°	2006.3	1422.9	510.4	426.3	425.5	416.2	368.1	357.0	354.6	348.7	346.7
32.5°	2009.1	1313.0	457.7	396.6	399.1	356.3	341.2	343.6	341.5	335.3	332.6
35°	2031.8	1208.5	423.2	369.8	362.5	321.8	325.3	329.8	329.1	320.5	317.7
37.5°	2072.5	1109.6	400.4	347.4	316.4	304.6	310.2	317.0	315.3	309.4	307.4
40°	2115.2	1016.6	381.9	329.8	289.1	292.9	297.8	301.6	303.3	304.9	303.6
42.5°	2156.9	919.4	359.1	311.9	277.7	281.9	284.0	287.8	297.1	303.6	303.3
45°	2181.7	828.1	335.6	286.3	268.8	271.2	269.9	277.4	288.8	299.4	299.8
47.5°	2209.3	757.1	317.0	262.9	260.1	261.9	257.8	265.4	275.7	288.8	290.1
50°	2242.7	714.7	302.2	244.3	248.5	248.5	247.5	254.3	268.8	284.0	286.7
52.5°	2280.6	706.4	289.8	230.9	236.7	236.4	237.4	247.8	263.6	278.4	280.9
55°	2326.8	728.9	276.4	220.9	225.4	226.8	230.2	241.9	255.3	272.2	273.2
57.5°	2380.5	774.4	265.7	213.0	215.0	219.5	225.0	235.7	250.2	268.8	269.9
58°	2389.5	784.0	263.9	212.3	213.0	218.1	224.3	234.7	249.2	269.4	270.5
60°	2389.8	816.0	260.1	209.2	205.0	213.7	220.5	230.9	247.5	271.9	274.4
62.5°	2305.1	815.7	257.4	204.7	196.8	207.5	215.3	227.4	245.7	277.7	282.5
65°	2029.7	741.2	244.3	197.8	190.3	201.9	210.9	225.0	250.5	303.3	306.4
67.5°	1587.6	607.5	219.8	188.1	181.6	196.4	208.2	224.6	255.7	309.1	311.2
70°	1049.6	454.5	193.0	177.2	172.7	189.9	209.5	236.4	249.8	296.7	291.2
72.5°	544.8	319.1	171.2	163.4	162.3	184.0	229.6	235.0	244.0	279.2	272.2
75°	286.0	221.6	152.3	148.2	149.9	182.6	270.9	228.8	236.4	267.1	280.2
77.5°	175.0	178.8	136.2	134.4	137.9	178.5	270.5	220.9	225.4	245.7	260.1
80°	117.1	145.1	123.7	124.1	126.4	163.4	243.0	208.5	212.0	232.3	247.0
82.5°	74.1	85.8	112.3	118.2	115.1	134.7	206.4	189.9	194.7	265.7	280.9
85°	37.5	53.8	97.5	113.8	103.7	94.4	167.5	166.4	168.9	191.6	200.2
87.5°	17.2	29.7	76.1	99.2	78.3	58.9	121.6	123.4	133.0	136.2	136.2
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)