

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: P199937

Luminaire Tested: **GWC-AF-01-LED-E1-AFL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199937
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-7030-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6802.1 lumens
Efficiency: N/A
Efficacy: 101.5 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

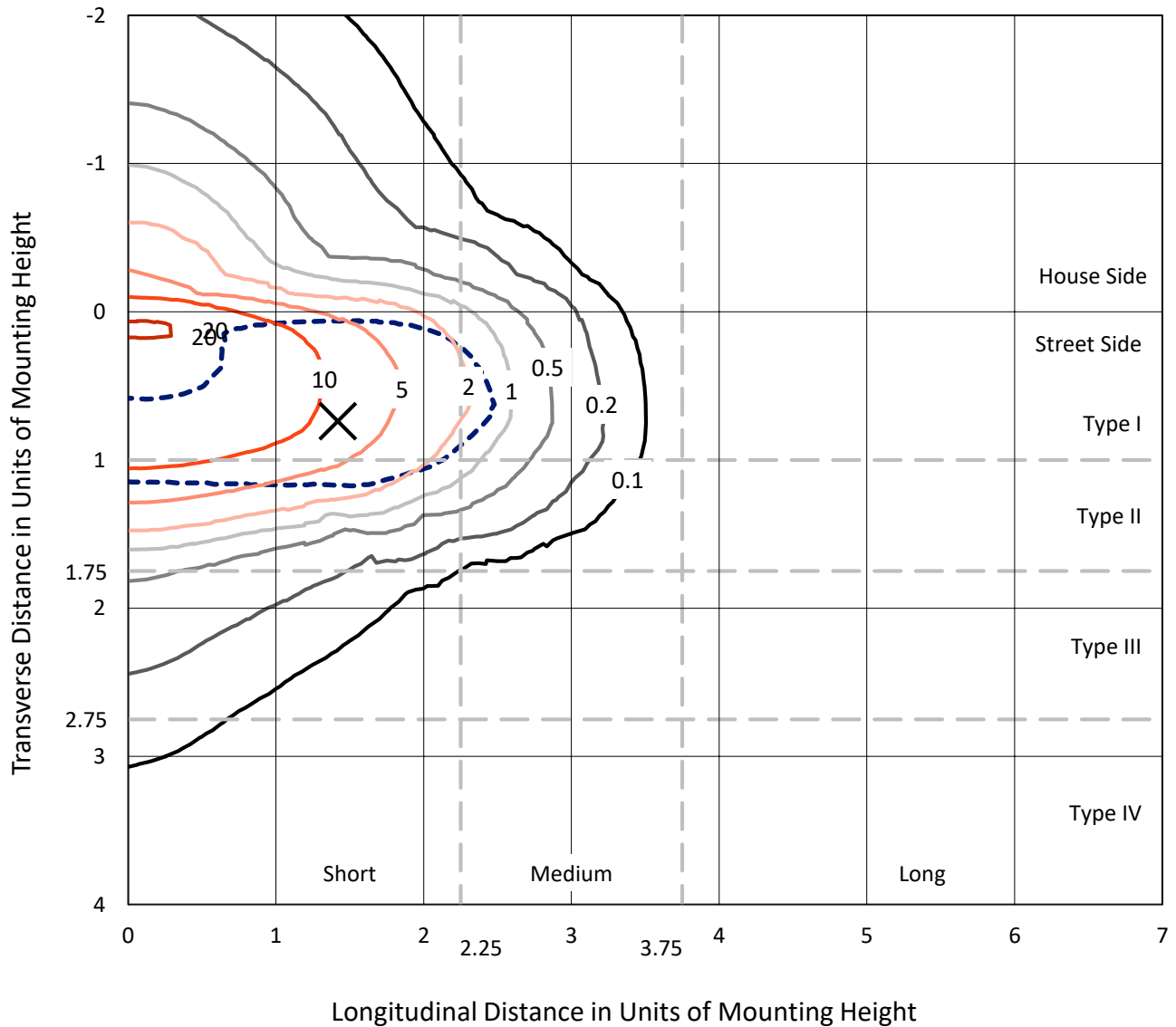


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Iso-Footcandle Lines of Horizontal Illumination

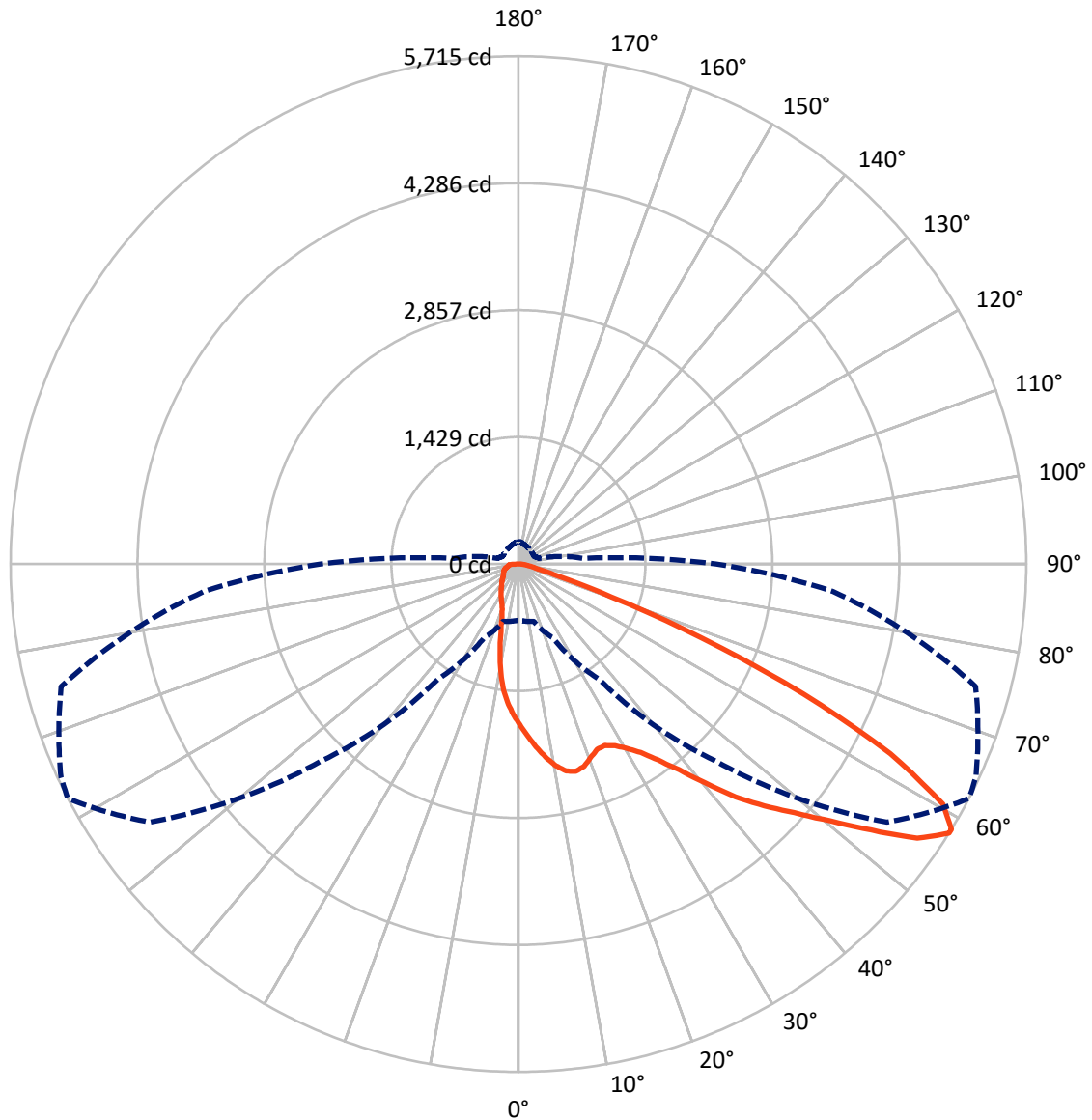
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22 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	1037.3	0.0	1037.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5764.8	0.0	5764.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	6802.1	0.0	6802.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	2.4
10°-20°	413.1	6.1
20°-30°	667.7	9.8
30°-40°	1060.0	15.6
40°-50°	1551.0	22.8
50°-60°	1622.2	23.8
60°-70°	958.4	14.1
70°-80°	270.0	4.0
80°-90°	98.0	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°	6802.1	100.0
0°-180°	6802.1	100.0



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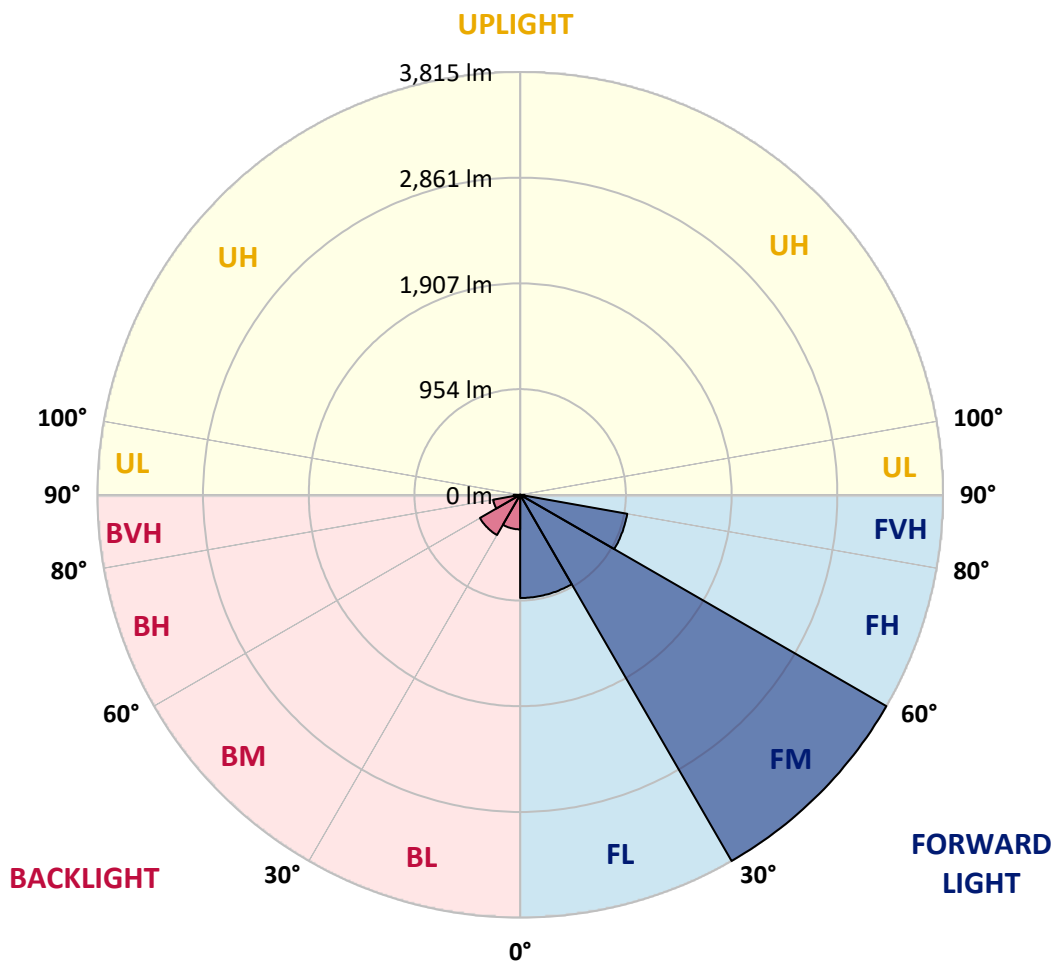
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	930.6	13.7			
FM (30°-60°)	3814.6	56.1			
FH (60°-80°)	980.9	14.4			G1/1800
FVH (80°-90°)	38.7	0.6			G1/100
BL (0°-30°)	311.8	4.6	B1/500		
BM (30°-60°)	418.7	6.2	B1/1000		
BH (60°-80°)	247.5	3.6	B1/500		G1/500
BVH (80°-90°)	59.4	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°	1806.8	1806.8	1806.8	1806.8	1806.8	1806.8	1806.8	1806.8	1806.8	1806.8	1806.8
2.5°	2064.7	2048.0	2037.4	2028.2	2016.0	1990.0	1955.1	1933.0	1921.8	1883.7	1838.6
5°	2267.2	2252.3	2241.5	2229.0	2207.2	2166.5	2110.1	2065.3	2043.2	1967.0	1876.6
7.5°	2219.7	2225.8	2244.7	2277.7	2305.9	2300.5	2250.2	2193.2	2163.9	2057.9	1920.9
10°	1934.0	1944.6	1977.3	2054.5	2179.4	2307.4	2346.5	2307.1	2277.7	2147.9	1966.3
12.5°	1876.6	1876.3	1878.9	1899.4	1973.7	2154.1	2349.8	2389.5	2371.9	2233.9	2012.8
15°	1900.0	1900.7	1898.7	1907.4	1930.4	2001.9	2251.8	2421.2	2433.6	2320.3	2060.8
17.5°	1961.6	1960.0	1952.6	1952.6	1960.9	1988.8	2136.4	2391.7	2449.4	2396.8	2103.1
20°	2064.7	2057.3	2037.7	2019.8	2010.9	2025.9	2089.1	2323.9	2422.1	2463.8	2138.1
22.5°	2189.6	2183.8	2152.1	2113.7	2082.6	2082.3	2113.3	2264.6	2375.1	2526.9	2167.5
25°	2351.0	2341.8	2294.7	2233.2	2178.8	2157.9	2166.5	2261.7	2349.4	2595.4	2193.8
27.5°	2540.6	2523.6	2467.9	2379.2	2299.2	2257.2	2244.7	2313.9	2372.8	2680.4	2230.3
30°	2770.7	2751.1	2679.7	2564.0	2450.9	2382.1	2355.6	2406.5	2450.3	2783.8	2288.9
32.5°	3032.3	3004.2	2921.5	2794.0	2645.4	2540.3	2497.1	2528.8	2563.7	2908.4	2362.2
35°	3394.0	3360.3	3240.8	3065.0	2897.2	2752.7	2683.5	2706.6	2740.5	3094.2	2468.2
37.5°	3640.6	3625.5	3546.1	3380.9	3198.3	3032.0	2925.0	2938.5	2957.7	3326.4	2604.1
40°	3638.3	3644.4	3646.1	3647.7	3523.4	3364.2	3249.2	3235.1	3231.2	3581.3	2758.4
42.5°	3456.0	3481.1	3561.8	3725.4	3801.0	3728.0	3622.6	3581.9	3561.8	3881.8	2922.1
45°	3177.1	3190.5	3341.8	3661.4	3943.2	4088.4	4008.7	3880.5	3844.0	4157.8	3058.0
47.5°	3033.3	3048.0	3143.2	3491.6	3941.6	4379.5	4425.6	4181.6	4116.3	4398.1	3175.2
50°	2690.9	2721.6	2841.5	3196.3	3797.8	4513.5	4861.6	4540.3	4405.2	4631.9	3292.8
52.5°	2062.1	2109.5	2243.7	2710.7	3433.1	4447.1	5210.4	4975.3	4784.4	4874.0	3393.6
55°	1300.8	1336.0	1448.7	1914.4	2746.3	4102.1	5342.7	5445.9	5276.1	5103.5	3481.1
57.5°	707.3	723.0	765.2	1057.0	1786.3	3339.5	5149.9	5713.6	5643.2	5298.2	3547.0
58°	633.0	643.5	669.8	916.1	1584.3	3131.0	5064.4	5714.6	5679.4	5326.7	3552.2
60°	469.6	464.1	440.7	522.8	881.8	2163.0	4547.4	5485.8	5589.4	5361.6	3527.2
62.5°	412.6	399.4	351.7	346.3	428.9	996.4	3479.5	4699.2	4943.6	5162.3	3375.4
65°	387.5	373.5	312.0	292.1	309.4	421.6	2049.7	3524.4	3830.9	4558.3	2987.2
67.5°	368.9	350.7	286.7	259.5	260.7	278.6	821.6	2219.7	2564.7	3460.9	2323.5
70°	351.0	331.2	265.2	233.8	226.4	220.4	326.7	1111.1	1424.1	2186.1	1481.4
72.5°	331.9	312.3	246.3	213.6	199.2	179.0	213.3	454.5	634.9	1034.2	672.0
75°	304.0	286.3	227.4	195.7	175.2	148.3	161.1	237.4	284.7	411.9	323.8
77.5°	269.7	255.3	206.3	181.0	155.3	120.4	123.9	164.7	182.6	235.8	192.5
80°	193.8	198.9	183.6	162.7	138.3	97.7	95.2	120.1	129.7	151.6	125.2
82.5°	136.1	139.0	151.9	133.0	114.4	76.9	70.1	84.5	90.3	99.6	67.6
85°	93.9	90.7	104.1	92.6	82.6	51.2	48.0	57.4	60.9	61.9	34.9
87.5°	56.4	56.4	60.3	49.6	44.6	26.6	26.0	32.7	34.9	33.3	19.2
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°	1806.8	1806.8	1806.8	1806.8	1806.8	1806.8	1806.8	1806.8	1806.8	1806.8	1806.8
2.5°	1811.6	1788.9	1740.5	1701.8	1652.8	1601.9	1573.3	1542.9	1522.1	1507.0	1531.1
5°	1825.4	1779.0	1679.0	1584.3	1479.5	1370.6	1287.9	1211.1	1157.6	1124.2	1155.7
7.5°	1847.2	1775.8	1616.6	1454.5	1266.4	1085.2	923.2	821.6	762.4	733.2	751.4
10°	1872.2	1770.6	1543.2	1278.7	1009.6	781.2	660.1	619.2	605.7	600.3	602.8
12.5°	1893.1	1759.8	1453.2	1066.0	758.2	616.9	582.0	581.1	583.9	584.5	585.5
15°	1907.8	1743.8	1319.6	844.3	606.3	562.2	560.2	565.9	571.4	573.7	575.0
17.5°	1917.7	1710.8	1168.8	667.5	543.3	535.5	540.0	547.3	553.1	554.8	556.0
20°	1916.7	1662.3	989.1	556.7	509.0	509.0	516.6	522.4	522.8	520.8	521.8
22.5°	1906.8	1596.1	814.9	497.7	478.5	484.0	491.7	486.2	463.8	449.1	450.0
25°	1890.2	1516.9	665.6	460.2	450.4	459.9	457.7	416.7	384.7	370.2	370.2
27.5°	1875.4	1423.5	550.9	427.6	422.1	434.0	394.3	357.1	343.7	336.9	334.7
30°	1864.8	1322.5	474.4	396.2	395.6	386.9	342.1	331.9	329.6	324.2	322.2
32.5°	1867.4	1220.4	425.3	368.6	370.9	331.2	317.1	319.3	317.4	311.7	309.1
35°	1888.5	1123.3	393.3	343.7	336.9	299.1	302.4	306.5	305.9	297.8	295.4
37.5°	1926.4	1031.4	372.2	322.9	294.1	283.1	288.3	294.7	293.1	287.6	285.7
40°	1966.0	944.9	354.9	306.5	268.7	272.3	276.8	280.2	281.8	283.4	282.2
42.5°	2004.8	854.5	333.7	289.9	258.2	262.0	263.9	267.4	276.1	282.2	281.8
45°	2027.9	769.7	312.0	266.2	249.8	252.1	250.8	257.9	268.4	278.3	278.6
47.5°	2053.5	703.7	294.7	244.4	241.9	243.4	239.6	246.6	256.3	268.4	269.7
50°	2084.6	664.3	280.9	227.1	230.9	230.9	230.0	236.4	249.8	263.9	266.5
52.5°	2119.8	656.6	269.4	214.6	220.1	219.8	220.7	230.3	245.0	258.9	261.0
55°	2162.6	677.4	256.9	205.4	209.4	210.7	214.0	224.8	237.4	253.1	254.0
57.5°	2212.7	719.7	246.9	198.0	199.9	204.1	209.1	219.1	232.5	249.8	250.8
58°	2221.0	728.7	245.3	197.3	198.0	202.8	208.5	218.1	231.6	250.5	251.4
60°	2221.3	758.5	241.9	194.4	190.5	198.6	205.0	214.6	230.0	252.7	255.0
62.5°	2142.6	758.2	239.3	190.2	182.9	192.8	200.2	211.4	228.3	258.2	262.6
65°	1886.6	689.0	227.1	183.9	176.8	187.7	196.0	209.1	232.9	281.8	284.7
67.5°	1475.7	564.7	204.4	174.9	168.8	182.6	193.4	208.8	237.7	287.3	289.2
70°	975.7	422.4	179.4	164.7	160.5	176.5	194.7	219.8	232.2	275.8	270.7
72.5°	506.4	296.6	159.2	151.9	150.9	171.0	213.3	218.5	226.7	259.5	253.1
75°	265.8	206.0	141.6	137.7	139.3	169.8	251.8	212.7	219.8	248.2	260.4
77.5°	162.7	166.3	126.5	124.9	128.1	165.9	251.4	205.4	209.4	228.3	241.9
80°	108.9	134.8	115.0	115.4	117.5	151.9	225.8	193.8	197.0	215.9	229.6
82.5°	68.8	79.8	104.4	109.9	107.0	125.2	191.8	176.5	181.0	246.9	261.0
85°	34.9	49.9	90.7	105.7	96.5	87.8	155.6	154.7	156.9	178.1	186.1
87.5°	16.0	27.5	70.8	92.3	72.7	54.8	113.1	114.7	123.6	126.5	126.5
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)