

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: P270086

Luminaire Tested: **GWC-AF-01-LED-E1-AFL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270086
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-7027-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6110.4 lumens
Efficiency: N/A
Efficacy: 91.2 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

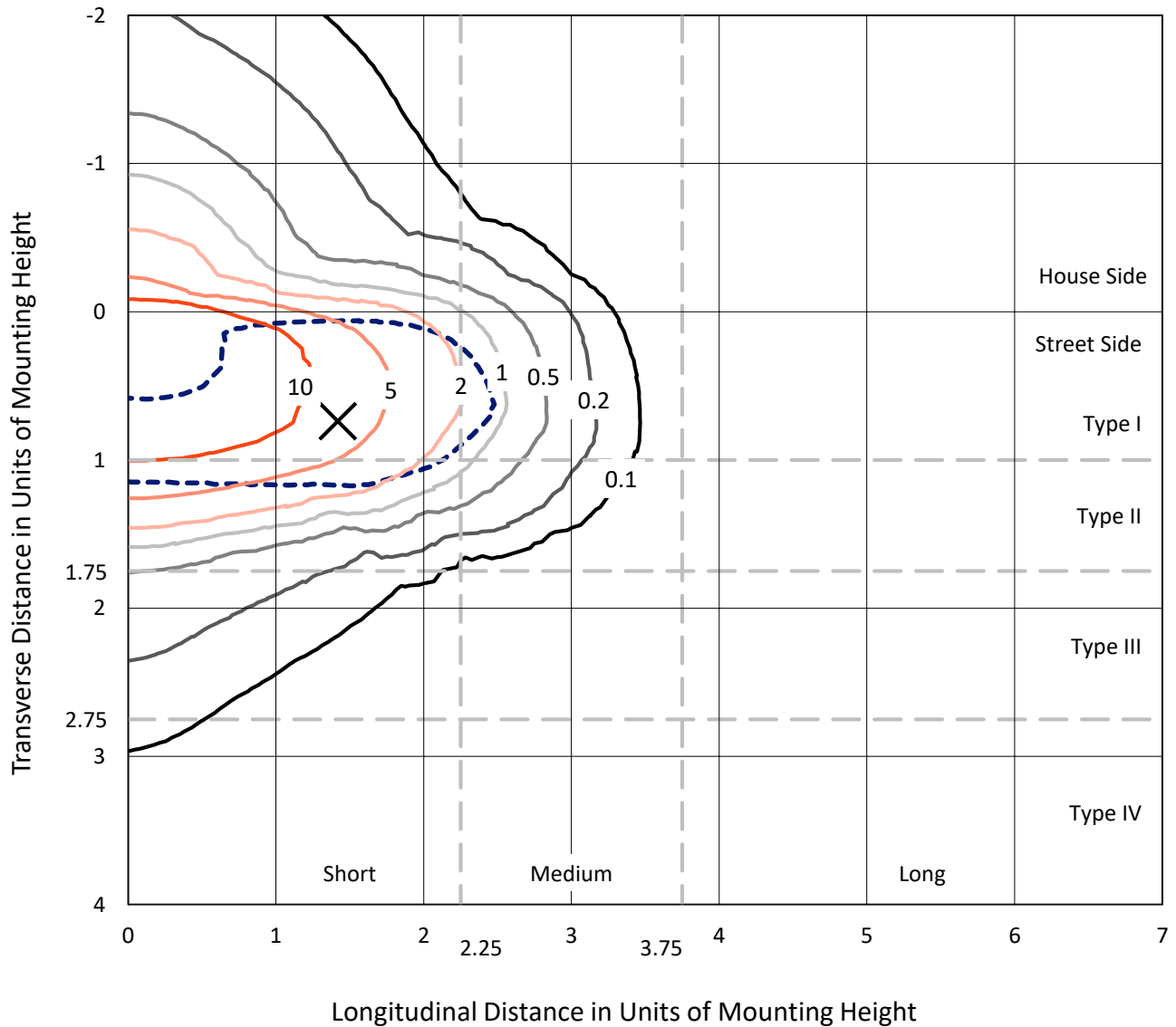


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Iso-Footcandle Lines of Horizontal Illumination

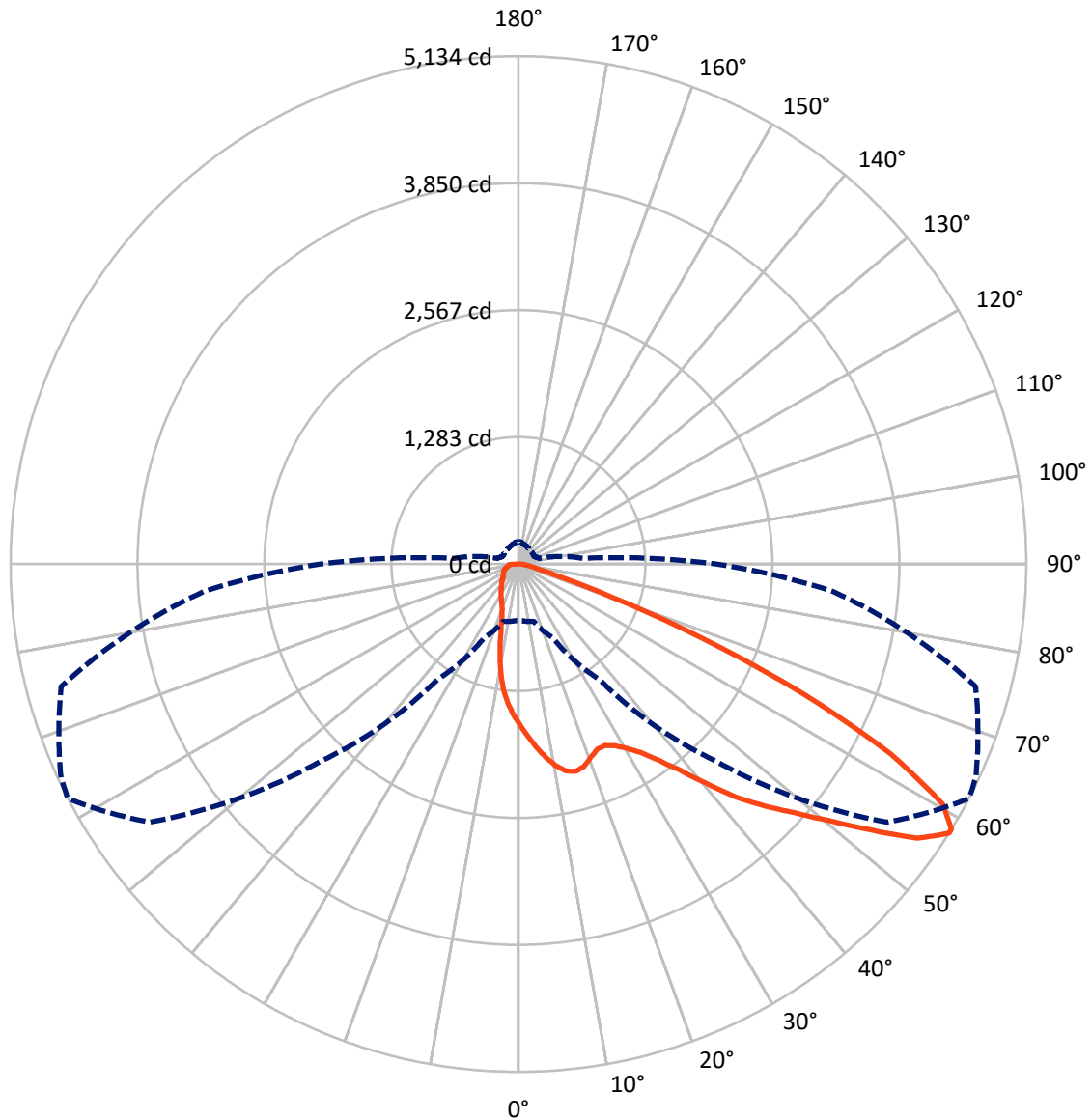
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.8 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	931.9	0.0	931.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5178.5	0.0	5178.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	6110.4	0.0	6110.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	2.4
10°-20°	371.1	6.1
20°-30°	599.8	9.8
30°-40°	952.2	15.6
40°-50°	1393.3	22.8
50°-60°	1457.3	23.8
60°-70°	861.0	14.1
70°-80°	242.5	4.0
80°-90°	88.1	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°	6110.4	100.0
0°-180°	6110.4	100.0



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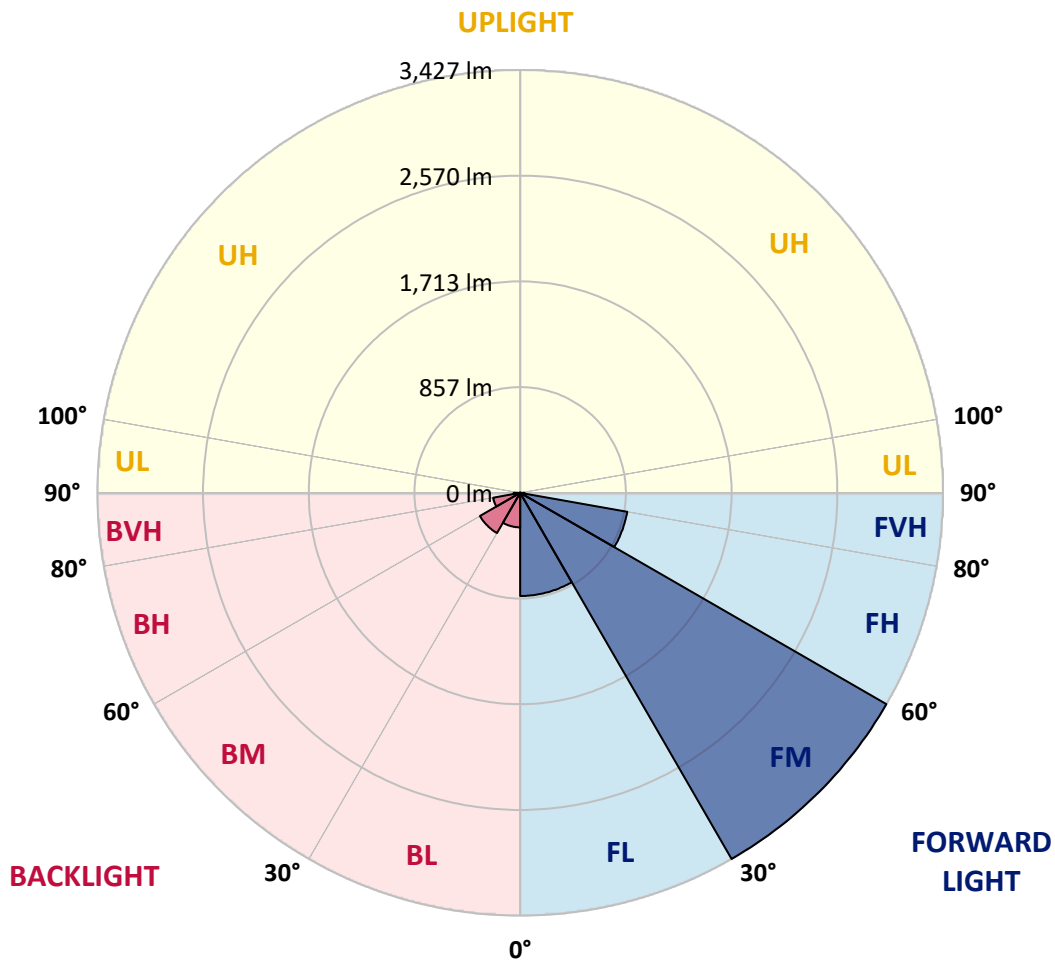
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	836.0	13.7			
FM	(30°-60°)	3426.7	56.1			
FH	(60°-80°)	881.1	14.4			G1/1800
FVH	(80°-90°)	34.8	0.6			G1/100
BL	(0°-30°)	280.1	4.6	B1/500		
BM	(30°-60°)	376.1	6.2	B1/1000		
BH	(60°-80°)	222.4	3.6	B1/500		G1/500
BVH	(80°-90°)	53.3	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°	1623.1	1623.1	1623.1	1623.1	1623.1	1623.1	1623.1	1623.1	1623.1	1623.1	1623.1
2.5°	1854.7	1839.7	1830.2	1821.9	1811.0	1787.6	1756.3	1736.4	1726.4	1692.1	1651.6
5°	2036.6	2023.3	2013.6	2002.3	1982.7	1946.2	1895.5	1855.3	1835.4	1767.0	1685.8
7.5°	1994.0	1999.4	2016.4	2046.1	2071.4	2066.6	2021.4	1970.2	1943.8	1848.6	1725.6
10°	1737.3	1746.8	1776.2	1845.6	1957.8	2072.7	2107.9	2072.5	2046.1	1929.5	1766.3
12.5°	1685.8	1685.5	1687.8	1706.2	1773.0	1935.0	2110.8	2146.5	2130.7	2006.7	1808.1
15°	1706.8	1707.4	1705.6	1713.4	1734.1	1798.3	2022.8	2175.0	2186.1	2084.3	1851.2
17.5°	1762.1	1760.7	1754.0	1754.0	1761.5	1786.5	1919.1	2148.5	2200.3	2153.1	1889.2
20°	1854.7	1848.1	1830.5	1814.4	1806.4	1819.9	1876.6	2087.6	2175.8	2213.2	1920.7
22.5°	1966.9	1961.7	1933.2	1898.7	1870.8	1870.5	1898.4	2034.3	2133.6	2269.9	1947.1
25°	2111.9	2103.7	2061.3	2006.1	1957.2	1938.5	1946.2	2031.7	2110.5	2331.5	1970.7
27.5°	2282.2	2267.0	2216.9	2137.2	2065.4	2027.7	2016.4	2078.6	2131.5	2407.8	2003.5
30°	2488.9	2471.3	2407.2	2303.3	2201.7	2139.9	2116.0	2161.8	2201.1	2500.7	2056.1
32.5°	2723.9	2698.7	2624.4	2509.9	2376.4	2282.0	2243.2	2271.6	2303.0	2612.6	2122.0
35°	3048.8	3018.6	2911.2	2753.3	2602.6	2472.8	2410.6	2431.4	2461.8	2779.5	2217.2
37.5°	3270.4	3256.8	3185.5	3037.1	2873.0	2723.7	2627.5	2639.7	2656.9	2988.1	2339.3
40°	3268.3	3273.8	3275.3	3276.7	3165.1	3022.1	2918.8	2906.1	2902.6	3217.1	2477.9
42.5°	3104.5	3127.1	3199.6	3346.5	3414.5	3348.9	3254.2	3217.6	3199.6	3487.0	2624.9
45°	2854.0	2866.0	3002.0	3289.1	3542.2	3672.6	3601.0	3485.9	3453.1	3735.0	2747.0
47.5°	2724.8	2738.0	2823.6	3136.5	3540.8	3934.1	3975.5	3756.4	3697.7	3950.8	2852.3
50°	2417.2	2444.8	2552.5	2871.3	3411.6	4054.5	4367.2	4078.6	3957.2	4160.9	2957.9
52.5°	1852.4	1895.0	2015.5	2435.0	3084.0	3994.9	4680.5	4469.3	4297.9	4378.3	3048.5
55°	1168.5	1200.1	1301.4	1719.7	2467.0	3684.9	4799.4	4892.1	4739.5	4584.5	3127.1
57.5°	635.4	649.5	687.4	949.5	1604.6	2999.9	4626.2	5132.6	5069.3	4759.4	3186.3
58°	568.6	578.1	601.7	822.9	1423.2	2812.6	4549.4	5133.5	5101.8	4785.0	3191.0
60°	421.8	416.9	395.9	469.6	792.1	1943.0	4085.0	4927.9	5021.0	4816.4	3168.5
62.5°	370.6	358.8	315.9	311.1	385.3	895.1	3125.7	4221.3	4440.9	4637.3	3032.1
65°	348.1	335.5	280.3	262.4	277.9	378.7	1841.3	3166.0	3441.3	4094.7	2683.4
67.5°	331.4	315.0	257.5	233.1	234.2	250.3	738.0	1994.0	2303.9	3108.9	2087.2
70°	315.3	297.5	238.2	210.0	203.4	198.0	293.5	998.1	1279.3	1963.8	1330.7
72.5°	298.1	280.5	221.3	191.9	178.9	160.8	191.6	408.3	570.3	929.0	603.7
75°	273.1	257.2	204.3	175.8	157.4	133.2	144.7	213.3	255.7	370.0	290.9
77.5°	242.3	229.3	185.3	162.6	139.5	108.2	111.3	148.0	164.0	211.8	172.9
80°	174.1	178.7	164.9	146.2	124.2	87.8	85.5	107.9	116.5	136.2	112.5
82.5°	122.3	124.9	136.5	119.5	102.8	69.1	63.0	75.9	81.1	89.5	60.7
85°	84.4	81.5	93.5	83.2	74.2	46.0	43.1	51.6	54.7	55.6	31.4
87.5°	50.7	50.7	54.2	44.6	40.1	23.9	23.4	29.4	31.4	29.9	17.2
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°	1623.1	1623.1	1623.1	1623.1	1623.1	1623.1	1623.1	1623.1	1623.1	1623.1	1623.1
2.5°	1627.4	1607.0	1563.5	1528.7	1484.7	1439.0	1413.3	1386.0	1367.3	1353.7	1375.4
5°	1639.8	1598.1	1508.3	1423.2	1329.0	1231.2	1156.9	1087.9	1039.9	1009.9	1038.2
7.5°	1659.3	1595.2	1452.2	1306.6	1137.6	974.8	829.3	738.0	684.9	658.6	675.0
10°	1681.8	1590.5	1386.3	1148.7	906.9	701.8	593.0	556.2	544.1	539.3	541.5
12.5°	1700.6	1580.8	1305.4	957.6	681.1	554.2	522.8	522.0	524.5	525.1	526.0
15°	1713.8	1566.5	1185.4	758.4	544.6	505.0	503.2	508.4	513.3	515.4	516.5
17.5°	1722.7	1536.8	1049.9	599.6	488.0	481.0	485.1	491.6	496.9	498.4	499.5
20°	1721.8	1493.3	888.5	500.1	457.2	457.2	464.1	469.3	469.6	467.8	468.7
22.5°	1712.9	1433.8	732.0	447.1	429.8	434.8	441.7	436.8	416.6	403.4	404.2
25°	1698.0	1362.6	597.9	413.4	404.6	413.1	411.2	374.3	345.6	332.6	332.6
27.5°	1684.7	1278.7	494.9	384.1	379.2	389.9	354.2	320.8	308.7	302.6	300.7
30°	1675.2	1188.0	426.2	355.9	355.4	347.6	307.3	298.1	296.1	291.2	289.4
32.5°	1677.5	1096.3	382.0	331.1	333.2	297.5	284.9	286.8	285.1	280.0	277.7
35°	1696.4	1009.1	353.3	308.7	302.6	268.7	271.6	275.3	274.8	267.5	265.4
37.5°	1730.5	926.5	334.3	290.1	264.2	254.3	259.0	264.7	263.3	258.4	256.6
40°	1766.1	848.8	318.8	275.3	241.4	244.6	248.7	251.7	253.1	254.6	253.5
42.5°	1800.9	767.6	299.8	260.4	231.9	235.4	237.1	240.2	248.0	253.5	253.1
45°	1821.7	691.4	280.3	239.1	224.4	226.5	225.3	231.7	241.1	250.0	250.3
47.5°	1844.7	632.1	264.7	219.5	217.3	218.6	215.2	221.5	230.2	241.1	242.3
50°	1872.6	596.7	252.3	204.0	207.4	207.4	206.6	212.4	224.4	237.1	239.4
52.5°	1904.2	589.8	242.0	192.8	197.7	197.4	198.3	206.9	220.1	232.6	234.5
55°	1942.7	608.5	230.8	184.5	188.1	189.3	192.2	201.9	213.3	227.4	228.2
57.5°	1987.7	646.5	221.8	177.9	179.6	183.3	187.8	196.8	208.9	224.4	225.3
58°	1995.1	654.6	220.4	177.2	177.9	182.2	187.3	195.9	208.0	225.0	225.8
60°	1995.4	681.4	217.3	174.6	171.1	178.4	184.2	192.8	206.6	227.0	229.1
62.5°	1924.7	681.1	215.0	170.9	164.3	173.2	179.8	189.9	205.1	231.9	235.9
65°	1694.7	618.9	204.0	165.2	158.8	168.6	176.1	187.8	209.2	253.1	255.7
67.5°	1325.6	507.3	183.6	157.1	151.6	164.0	173.7	187.6	213.5	258.1	259.8
70°	876.5	379.4	161.2	148.0	144.2	158.6	174.9	197.4	208.6	247.8	243.2
72.5°	454.9	266.4	143.0	136.5	135.6	153.6	191.6	196.3	203.6	233.1	227.4
75°	238.8	185.1	127.2	123.7	125.1	152.5	226.2	191.1	197.4	223.0	233.9
77.5°	146.2	149.4	113.6	112.2	115.1	149.0	225.8	184.5	188.1	205.1	217.3
80°	97.8	121.1	103.3	103.7	105.6	136.5	202.8	174.1	177.0	193.9	206.3
82.5°	61.8	71.7	93.8	98.7	96.1	112.5	172.3	158.6	162.6	221.8	234.5
85°	31.4	44.8	81.5	95.0	86.7	78.9	139.8	139.0	140.9	160.0	167.2
87.5°	14.4	24.7	63.6	82.9	65.3	49.2	101.6	103.0	111.0	113.6	113.6
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)