

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: P269188

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17323.1 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

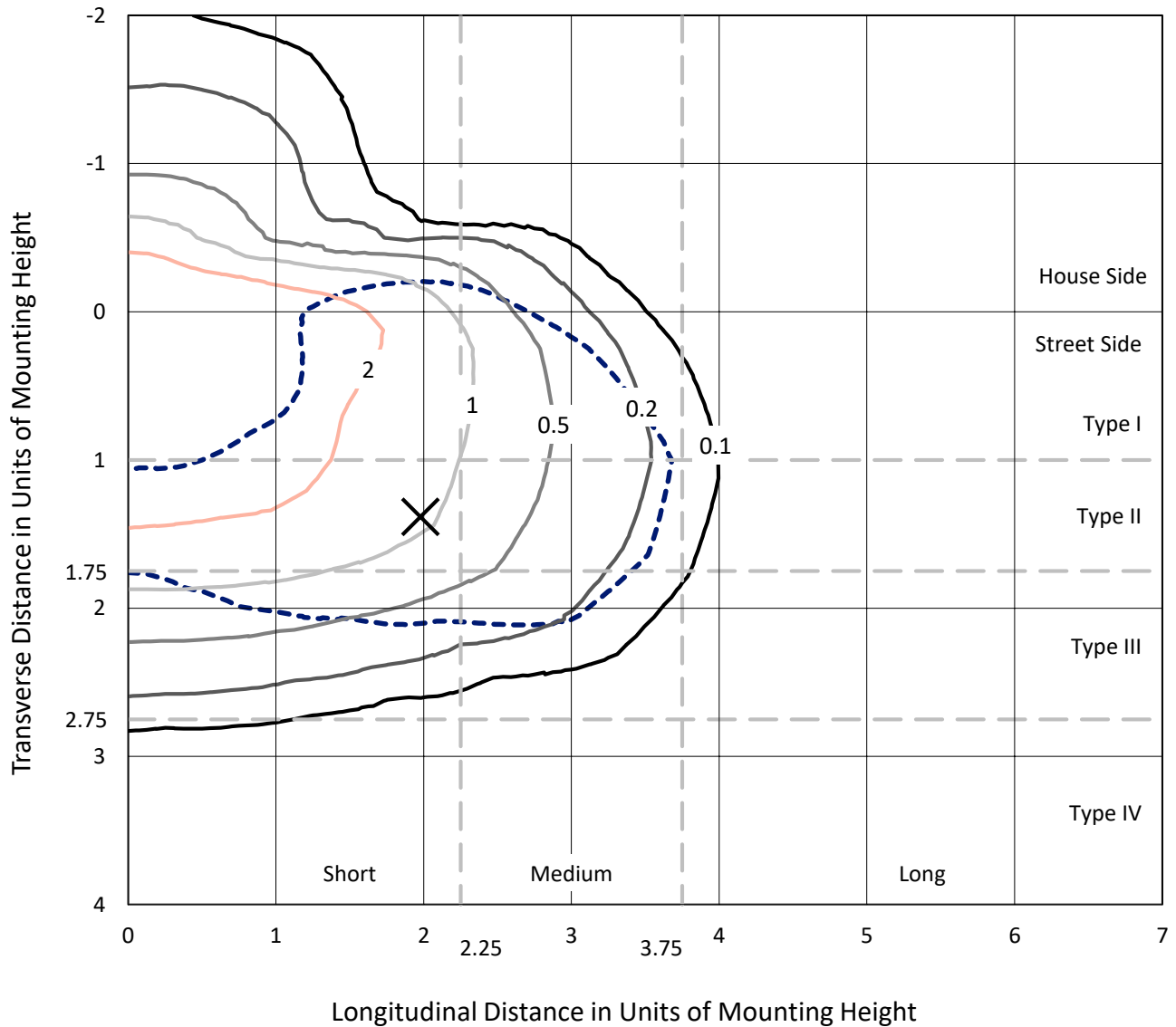
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

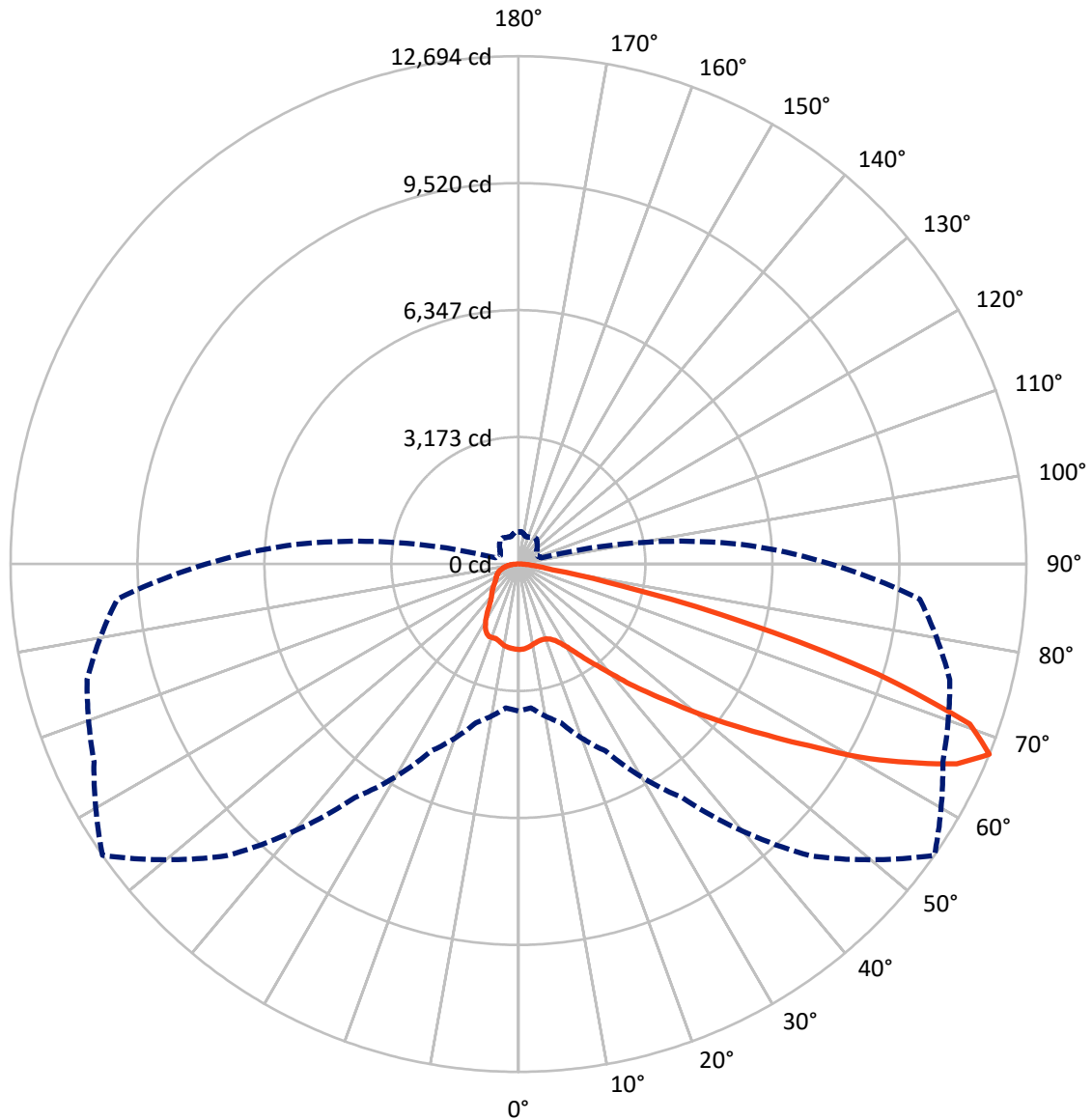
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3742.2	0.0	3742.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	13581.0	0.0	13581.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	17323.1	0.0	17323.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.4	1.2
10°-20°	564.7	3.3
20°-30°	945.9	5.5
30°-40°	1555.5	9.0
40°-50°	2618.4	15.1
50°-60°	4121.2	23.8
60°-70°	4918.2	28.4
70°-80°	2111.9	12.2
80°-90°	287.9	1.7
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°	17323.1	100.0
0°-180°	17323.1	100.0



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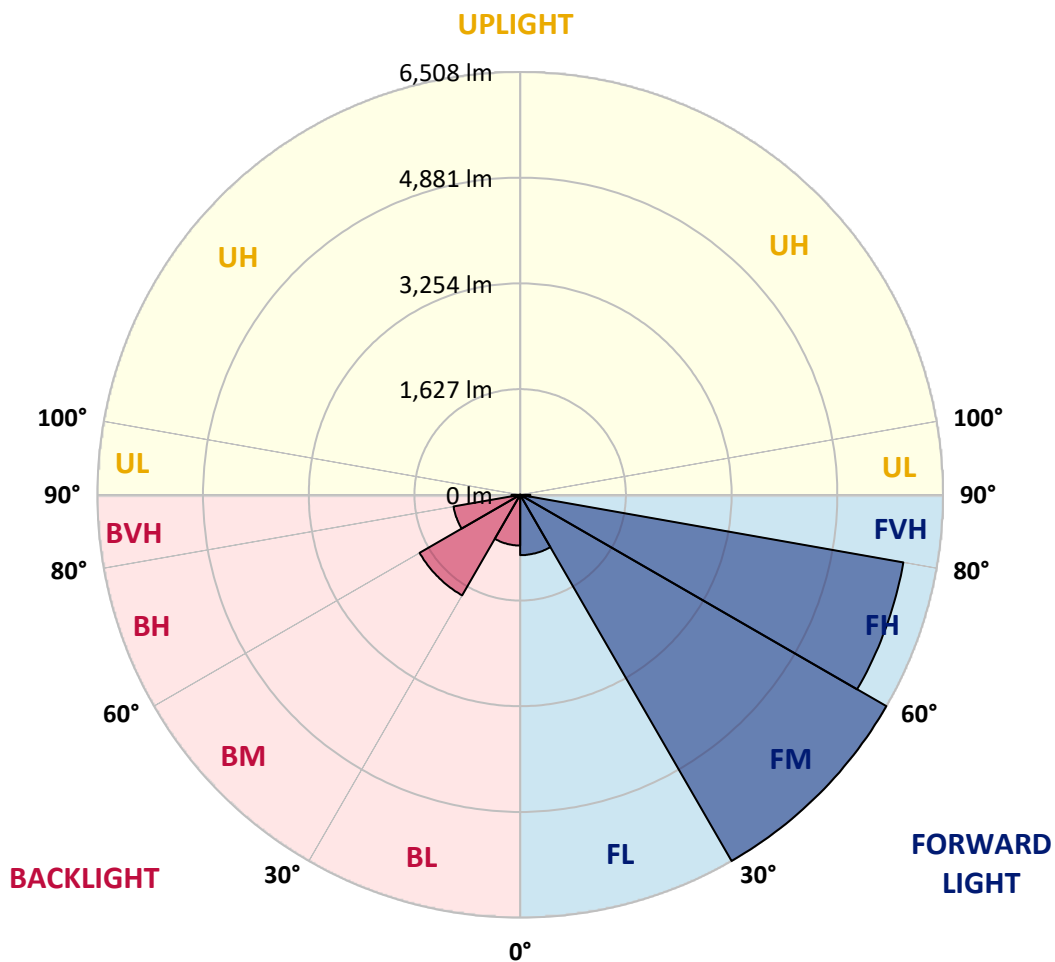
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	928.6	5.4			
FM (30°-60°)	6507.9	37.6			
FH (60°-80°)	5988.7	34.6			G3/7500
FVH (80°-90°)	155.9	0.9			G2/225
BL (0°-30°)	781.4	4.5	B2/1000		
BM (30°-60°)	1787.2	10.3	B2/2500		
BH (60°-80°)	1041.4	6.0	B3/2500		G3/2500
BVH (80°-90°)	132.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2136.1	2136.1	2136.1	2136.1	2136.1	2136.1	2136.1	2136.1	2136.1	2136.1	2136.1
2.5°	2117.8	2118.6	2120.2	2126.9	2132.8	2131.0	2131.9	2128.7	2127.7	2122.8	2127.7
5°	2091.0	2093.5	2094.3	2105.2	2111.8	2113.5	2111.0	2106.9	2101.9	2096.9	2099.2
7.5°	2029.9	2036.5	2037.4	2052.4	2063.3	2077.6	2078.4	2079.2	2076.7	2073.4	2078.4
10°	1991.5	1993.1	1992.3	2003.1	2011.5	2027.4	2036.5	2052.4	2059.2	2060.8	2064.1
12.5°	1988.8	1987.2	1984.6	1984.6	1982.2	1988.8	2005.6	2028.3	2044.2	2049.2	2053.3
15°	2015.6	2014.8	2006.5	1993.9	1978.0	1972.9	1987.2	2012.4	2033.3	2044.2	2048.2
17.5°	2076.0	2070.9	2057.5	2029.0	1994.7	1981.3	1983.0	2003.8	2028.3	2042.4	2046.6
20°	2186.4	2186.4	2157.9	2104.3	2043.3	2011.5	1996.5	2009.0	2032.3	2051.5	2057.5
22.5°	2377.2	2378.8	2331.1	2243.2	2140.3	2072.5	2034.9	2032.3	2060.1	2081.7	2088.4
25°	2647.3	2640.7	2573.7	2448.2	2291.8	2179.6	2114.4	2099.2	2122.8	2146.9	2155.4
27.5°	2962.0	2937.6	2858.1	2706.8	2504.3	2340.3	2239.8	2215.6	2238.1	2265.9	2274.1
30°	3273.2	3248.1	3153.6	2987.9	2762.8	2555.3	2411.4	2372.1	2403.9	2443.2	2448.2
32.5°	3584.4	3584.4	3479.0	3285.8	3040.7	2812.2	2639.8	2593.0	2645.7	2693.4	2704.3
35°	3956.9	3958.6	3856.5	3623.9	3360.2	3118.5	2928.6	2894.2	2973.7	3007.2	3033.0
37.5°	4414.5	4423.8	4292.3	4011.2	3722.5	3468.1	3242.3	3195.5	3275.0	3366.0	3449.9
40°	4909.0	4920.7	4776.0	4429.5	4140.8	3874.7	3630.5	3546.0	3678.2	3852.2	3960.2
42.5°	5380.8	5441.2	5301.4	4945.0	4634.5	4359.3	4111.6	3988.7	4154.3	4417.1	4510.7
45°	6062.8	6106.4	5862.9	5539.8	5247.9	4940.0	4612.0	4482.4	4714.0	5045.4	5064.6
47.5°	6517.2	6484.5	6360.7	6159.9	5974.9	5687.2	5193.6	5051.3	5359.2	5749.1	5641.1
50°	6758.9	6769.0	6752.3	6764.0	6770.6	6590.0	5906.4	5711.5	6078.7	6549.8	6301.3
52.5°	6985.0	6917.9	6973.3	7247.6	7579.0	7512.0	6682.0	6478.7	6850.1	7438.3	6999.1
55°	6979.9	6877.9	7057.8	7542.2	8261.0	8337.9	7552.9	7318.8	7666.0	8391.3	7738.8
57.5°	6733.1	6738.0	7015.0	7649.2	8736.1	9114.4	8563.8	8212.3	8531.2	9356.9	8414.1
60°	6393.3	6439.4	6838.4	7631.7	9116.9	9751.1	9803.8	9175.4	9378.8	10234.7	8972.9
62.5°	5845.4	5893.8	6444.4	7449.3	9059.0	10364.4	10924.9	10268.2	10264.8	10766.8	9136.9
65°	4980.9	4966.8	5544.9	6767.3	8574.6	10817.8	12038.6	11212.9	10932.6	10775.2	8807.3
67.5°	3673.2	3609.6	4105.8	5154.1	7127.2	10309.9	12693.8	11704.8	11160.2	10066.5	7799.9
70°	1906.1	1842.5	2244.1	3009.6	4687.3	8046.7	11968.4	11450.4	10657.2	8438.3	6110.5
72.5°	814.9	804.2	967.3	1320.2	2267.5	4641.3	9384.7	9910.9	9144.4	6287.1	4201.2
75°	548.1	544.7	605.7	719.6	1019.9	1883.4	5872.8	7035.0	6690.3	3898.3	2362.9
77.5°	430.1	425.8	461.9	517.1	661.1	743.0	2606.3	3777.0	3495.8	1696.9	1034.2
80°	336.3	333.0	355.5	385.7	475.3	468.6	857.6	1502.8	1163.0	650.2	503.0
82.5°	265.2	265.2	283.7	284.6	337.3	319.6	447.6	661.8	580.7	379.1	307.8
85°	242.6	242.6	261.9	212.4	220.1	201.7	277.8	392.4	368.1	155.6	133.8
87.5°	122.2	118.8	220.1	188.3	119.7	107.1	135.6	189.9	204.2	86.1	67.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2136.1	2136.1	2136.1	2136.1	2136.1	2136.1	2136.1	2136.1	2136.1	2136.1
2.5°	2126.1	2125.3	2126.9	2127.7	2134.5	2143.6	2147.8	2153.6	2157.1	2155.4
5°	2101.0	2102.7	2109.4	2114.4	2126.1	2141.2	2149.6	2156.2	2162.1	2159.5
7.5°	2080.0	2084.2	2094.3	2098.5	2105.2	2109.4	2108.5	2111.0	2116.0	2110.2
10°	2068.3	2073.4	2081.0	2075.1	2059.2	2036.5	2015.6	2004.7	2008.2	2003.8
12.5°	2056.7	2063.3	2057.5	2029.9	1985.6	1956.1	1940.3	1942.0	1949.5	1951.2
15°	2049.9	2052.4	2027.4	1975.6	1930.3	1926.1	1934.5	1932.9	1933.6	1933.6
17.5°	2049.9	2043.3	1996.5	1944.6	1925.2	1917.7	1891.8	1859.2	1844.9	1840.0
20°	2060.8	2043.3	1986.3	1952.0	1910.2	1845.7	1777.1	1716.9	1690.3	1682.6
22.5°	2093.5	2063.3	2014.8	1955.4	1836.6	1728.7	1619.9	1547.9	1499.5	1491.0
25°	2159.5	2126.1	2070.9	1911.1	1719.4	1565.4	1441.7	1361.3	1312.9	1306.1
27.5°	2275.0	2253.3	2101.0	1813.1	1563.8	1399.0	1284.3	1222.5	1186.4	1184.0
30°	2449.0	2438.2	2086.0	1668.4	1372.3	1237.5	1182.3	1146.2	1119.5	1118.7
32.5°	2726.8	2639.0	2036.5	1491.8	1197.4	1122.9	1100.2	1078.5	1057.7	1057.7
35°	3084.2	2801.4	1942.9	1302.7	1091.1	1059.3	1030.8	996.5	968.9	967.3
37.5°	3504.2	2901.7	1774.7	1150.5	1040.9	1016.6	974.8	923.7	875.2	866.9
40°	3928.4	2931.9	1537.9	1056.8	1009.1	973.9	922.9	862.6	815.8	813.2
42.5°	4317.4	2874.0	1286.8	992.4	977.3	930.5	876.8	823.3	786.6	785.7
45°	4643.8	2724.3	1076.0	931.3	943.8	891.1	843.4	799.9	771.5	765.5
47.5°	4950.9	2512.6	927.9	866.9	910.3	869.3	829.1	788.3	760.5	756.5
50°	5307.2	2284.2	824.1	804.2	881.1	861.8	841.0	798.2	752.2	747.2
52.5°	5739.0	2086.8	743.0	748.8	858.5	871.9	871.0	826.7	746.3	739.7
55°	6221.0	1867.5	682.0	703.7	849.3	890.3	878.5	853.5	751.3	741.3
57.5°	6695.3	1611.5	639.2	669.3	835.9	888.7	842.6	806.6	763.1	748.8
60°	7050.9	1267.6	606.6	639.2	806.6	860.9	803.3	755.6	760.5	749.6
62.5°	7074.4	979.8	567.3	613.4	762.2	833.4	777.4	732.9	771.5	761.5
65°	6658.5	740.6	529.6	582.3	714.5	815.8	752.2	720.4	794.0	783.1
67.5°	5606.1	595.8	497.8	550.5	666.8	779.0	729.7	708.8	814.1	794.9
70°	4047.3	507.9	466.8	512.0	624.2	737.1	709.5	687.8	759.7	729.7
72.5°	2491.8	440.1	431.7	461.0	591.5	693.6	679.4	648.4	684.4	660.2
75°	1244.2	381.5	392.4	410.9	545.5	644.3	629.3	598.2	603.3	598.2
77.5°	595.8	326.4	346.3	360.6	486.2	588.2	572.3	540.5	534.6	535.5
80°	377.4	272.7	291.9	302.1	434.2	523.0	507.1	475.3	542.1	503.0
82.5°	236.0	221.7	226.7	245.1	378.1	455.3	434.2	405.9	488.7	386.6
85°	130.6	154.8	161.4	177.3	291.2	380.7	359.9	323.7	290.3	285.3
87.5°	77.9	92.0	94.5	106.3	195.8	275.3	243.5	231.0	191.6	190.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)