

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: P192300

Luminaire Tested: **GLEON-AF-02-LED-E1-T3R-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13660 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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

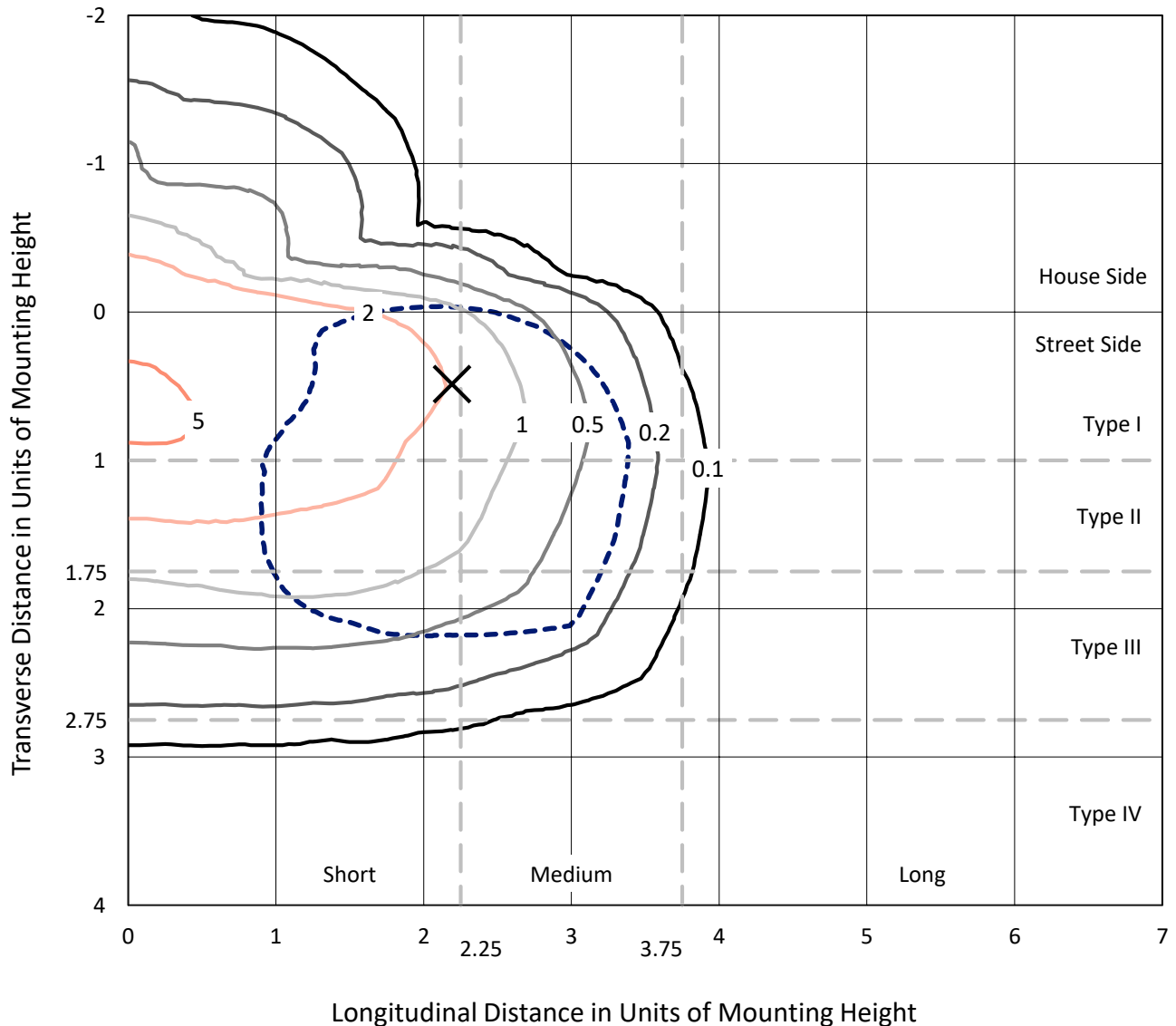


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Iso-Footcandle Lines of Horizontal Illumination

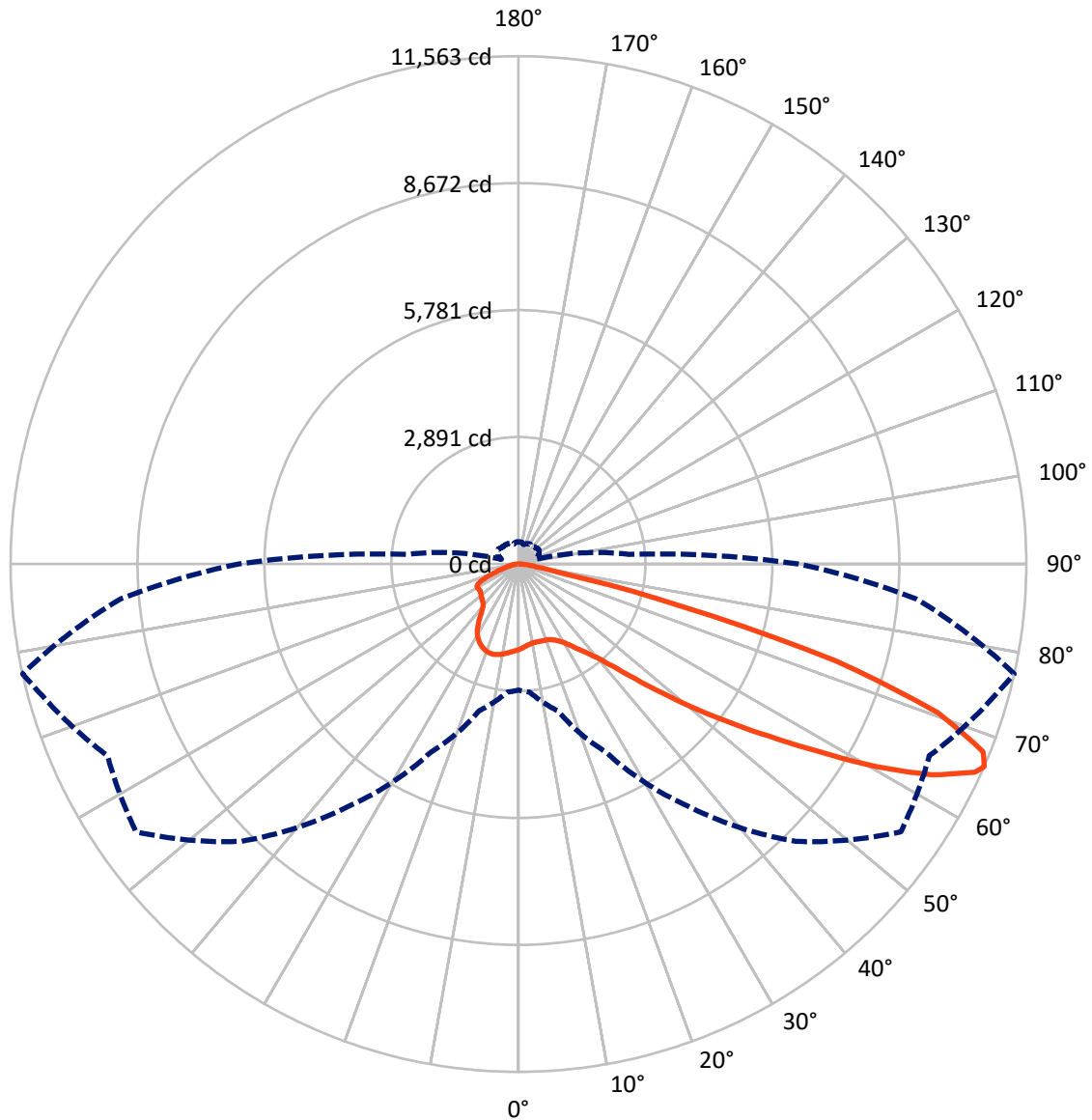
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2333.7	0.0	2333.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	11326.3	0.0	11326.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	13660.0	0.0	13660.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	1.3
10°-20°	490.6	3.6
20°-30°	837.4	6.1
30°-40°	1340.5	9.8
40°-50°	2070.9	15.2
50°-60°	2937.2	21.5
60°-70°	3929.2	28.8
70°-80°	1706.4	12.5
80°-90°	174.0	1.3
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°	13660.0	100.0
0°-180°	13660.0	100.0



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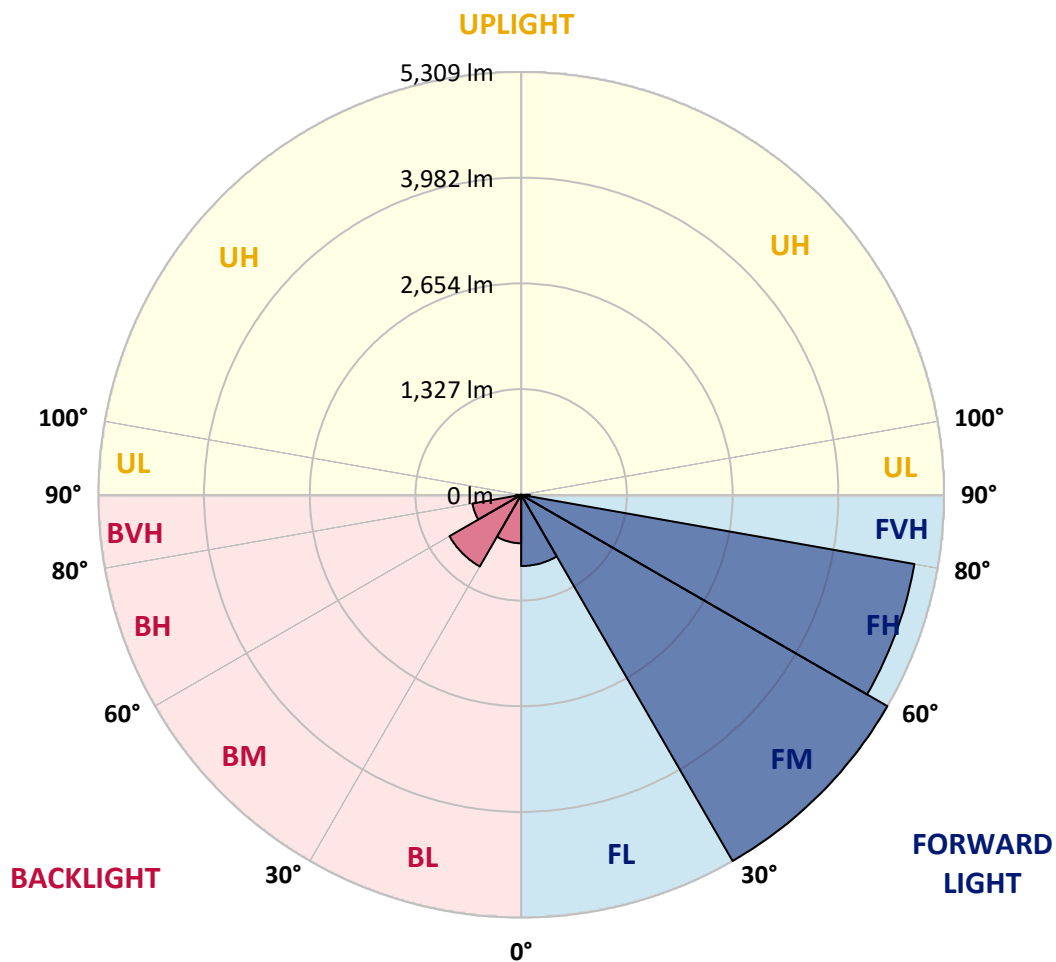
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.1	6.5			
FM (30°-60°)	5309.0	38.9			
FH (60°-80°)	5014.1	36.7			G3/7500
FVH (80°-90°)	109.1	0.8			G2/225
BL (0°-30°)	607.8	4.4	B2/1000		
BM (30°-60°)	1039.5	7.6	B2/2500		
BH (60°-80°)	621.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	64.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1946.6	1946.6	1946.6	1946.6	1946.6	1946.6	1946.6	1946.6	1946.6	1946.6	1946.6
2.5°	1722.0	1733.6	1743.3	1752.3	1770.4	1800.1	1834.3	1862.1	1902.1	1909.8	1931.1
5°	1563.9	1563.9	1571.6	1585.2	1609.7	1654.2	1700.7	1762.7	1849.8	1870.5	1927.3
7.5°	1487.1	1487.7	1492.2	1503.9	1525.1	1565.8	1616.8	1689.7	1807.8	1842.1	1938.9
10°	1515.5	1509.0	1499.3	1493.5	1496.8	1520.6	1569.0	1650.4	1782.0	1825.9	1964.7
12.5°	1674.2	1662.0	1628.4	1583.9	1541.3	1523.9	1552.3	1631.6	1771.1	1822.0	1998.9
15°	1933.7	1928.5	1865.9	1773.6	1670.4	1583.9	1564.5	1624.5	1772.3	1826.6	2039.6
17.5°	2259.0	2251.9	2169.3	2035.0	1866.6	1698.1	1607.8	1630.4	1776.9	1834.3	2078.9
20°	2587.5	2565.6	2476.5	2316.4	2100.2	1853.7	1679.4	1645.2	1782.7	1842.7	2120.2
22.5°	2832.8	2814.7	2734.7	2579.1	2330.0	2033.7	1775.6	1671.0	1801.4	1867.2	2171.2
25°	3048.4	3049.7	2970.3	2819.9	2562.4	2224.8	1899.5	1740.1	1849.2	1917.6	2240.9
27.5°	3314.9	3299.4	3225.2	3076.1	2792.1	2417.8	2049.2	1835.0	1920.2	1989.2	2332.6
30°	3633.8	3622.8	3537.0	3367.9	3047.1	2625.0	2220.3	1945.3	2011.8	2083.4	2452.6
32.5°	4008.8	4003.6	3914.5	3697.0	3341.4	2868.9	2421.0	2091.2	2148.6	2222.9	2625.0
35°	4448.9	4449.6	4344.4	4083.0	3663.5	3152.9	2648.8	2279.0	2315.2	2392.6	2830.2
37.5°	4720.0	4752.9	4713.6	4447.0	4028.1	3470.5	2944.4	2528.1	2504.9	2583.0	3050.3
40°	4778.1	4818.1	4942.7	4807.2	4436.0	3820.3	3206.5	2767.6	2738.6	2834.1	3333.6
42.5°	4696.8	4752.3	5015.6	5111.2	4869.1	4251.4	3558.9	3123.2	3086.4	3214.9	3686.0
45°	4648.4	4689.7	4994.3	5269.3	5244.8	4738.7	4007.5	3569.9	3556.3	3724.8	4092.7
47.5°	4564.5	4601.9	4894.9	5306.1	5465.5	5185.4	4546.4	4115.9	4142.4	4363.1	4551.6
50°	4609.7	4625.1	4783.9	5212.5	5529.4	5512.6	5148.6	4748.4	4838.8	5114.4	5071.1
52.5°	4603.2	4643.2	4771.0	5058.9	5537.8	5714.6	5741.7	5453.9	5644.3	5960.5	5647.5
55°	3721.5	3795.1	4619.3	5020.1	5567.5	5912.8	6269.7	6197.4	6552.4	6920.9	6298.1
57.5°	3553.7	3600.2	4057.2	5101.5	5725.0	6291.0	6857.0	7015.8	7609.6	8037.5	7090.7
60°	3520.8	3578.3	4051.4	5200.9	6044.4	6907.4	7727.7	8006.6	8896.0	9364.5	8009.8
62.5°	3418.2	3480.2	4013.3	5188.0	6498.2	7760.0	8842.4	9059.9	10115.8	10571.5	8778.5
65°	3092.9	3151.0	3702.8	4979.5	6804.1	8670.1	10161.6	10025.5	11078.8	11421.5	9161.9
66°	2870.2	2927.0	3458.2	4734.2	6733.1	8928.2	10628.9	10324.3	11294.4	11562.9	9087.0
67.5°	2463.0	2507.5	2983.2	4185.0	6355.5	9000.5	11022.0	10548.9	11317.0	11411.8	8659.1
70°	1556.1	1569.0	1938.9	2888.9	4811.0	7805.8	10423.7	9991.2	10383.7	10126.8	7259.1
72.5°	675.1	670.6	930.7	1469.6	2723.7	5237.7	8431.9	8244.1	8145.3	7559.3	5081.5
75°	375.6	380.8	483.4	682.2	1106.9	2572.7	5515.8	5278.3	4456.7	3802.9	2304.2
77.5°	301.4	308.5	400.8	484.1	497.0	897.1	2581.1	2100.2	1264.4	1014.6	640.3
80°	238.2	251.1	349.8	376.9	335.0	369.8	833.9	666.7	500.2	458.9	331.8
82.5°	188.5	197.5	300.1	285.3	234.3	249.1	399.5	389.2	325.3	296.3	191.7
85°	135.5	152.3	246.6	214.9	153.6	167.8	265.3	254.3	186.5	152.3	84.6
87.5°	55.5	72.3	174.3	142.6	85.8	78.1	132.3	124.6	88.4	64.5	42.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1946.6	1946.6	1946.6	1946.6	1946.6	1946.6	1946.6	1946.6	1946.6	1946.6	1946.6
2.5°	1944.7	1960.2	1980.2	1992.4	1998.9	2003.4	2010.5	2009.9	2011.8	2012.4	2015.0
5°	1957.6	1983.4	2012.4	2020.2	2020.2	2013.1	2006.0	1994.4	1989.9	1988.6	1989.9
7.5°	1991.1	2019.5	2044.7	2035.7	2016.3	1987.9	1951.1	1918.9	1901.4	1895.6	1894.3
10°	2033.7	2068.0	2078.3	2044.1	1987.3	1918.9	1845.9	1793.0	1762.7	1754.3	1751.7
12.5°	2085.4	2117.7	2103.5	2031.2	1926.0	1815.6	1714.9	1630.4	1567.1	1547.1	1545.8
15°	2142.2	2167.4	2117.7	1991.1	1834.3	1671.7	1492.2	1346.4	1267.6	1242.5	1240.5
17.5°	2195.1	2208.0	2109.3	1921.4	1699.4	1436.1	1197.9	1085.6	1058.5	1065.0	1066.2
20°	2240.3	2240.3	2080.9	1821.4	1487.1	1125.6	975.2	973.3	992.7	1012.0	1015.9
22.5°	2290.0	2260.3	2031.2	1680.1	1186.3	921.0	899.1	917.2	939.1	960.4	963.6
25°	2351.3	2276.4	1962.1	1465.8	932.6	836.5	844.9	859.7	870.7	884.2	886.2
27.5°	2419.7	2297.1	1871.1	1170.8	809.4	783.6	790.0	795.2	793.9	799.0	800.3
30°	2501.7	2321.0	1746.5	915.2	758.4	738.4	726.8	722.2	722.2	730.6	733.9
32.5°	2611.4	2356.5	1567.7	784.2	733.9	706.1	668.7	651.9	658.3	686.7	693.2
35°	2732.1	2394.5	1325.7	739.7	728.7	691.3	633.2	602.2	602.8	629.3	637.7
37.5°	2863.8	2443.0	1060.4	731.3	740.3	691.9	614.4	571.9	554.4	554.4	557.7
40°	3032.2	2492.6	858.4	737.1	764.8	699.6	604.8	548.0	498.9	500.2	502.8
42.5°	3251.7	2535.2	750.0	749.3	794.5	710.0	604.1	516.3	473.7	502.8	529.3
45°	3495.6	2556.5	702.2	760.3	818.4	716.4	593.8	511.2	477.0	563.5	613.8
47.5°	3776.4	2544.3	675.8	764.2	824.2	716.4	582.2	523.4	499.6	652.5	711.3
50°	4084.3	2508.8	649.9	756.4	822.3	715.1	593.1	535.7	508.0	668.0	708.7
52.5°	4446.4	2479.1	622.8	739.7	808.7	708.0	606.1	530.5	481.5	607.3	635.7
55°	4859.4	2487.5	592.5	715.8	787.4	694.5	601.5	509.9	453.7	535.1	552.5
57.5°	5387.4	2587.5	556.4	685.4	758.4	671.9	585.4	500.2	445.3	485.4	495.7
60°	5976.7	2761.8	511.2	655.1	722.2	635.7	573.1	504.7	449.2	481.5	486.7
62.5°	6409.1	2863.1	472.5	610.6	673.2	595.7	557.7	510.5	459.5	495.0	493.8
65°	6526.6	2696.6	424.0	545.4	606.7	553.8	538.3	517.0	464.1	506.0	500.2
66°	6362.0	2517.2	402.7	515.1	573.1	533.1	528.6	516.3	462.1	507.3	497.6
67.5°	5962.5	2149.3	366.0	470.5	519.6	502.1	513.1	510.5	457.0	506.0	492.5
70°	4862.7	1466.4	313.0	391.8	432.4	442.1	483.4	489.9	440.2	483.4	453.7
72.5°	3397.5	893.3	276.9	304.0	349.8	376.9	442.8	461.5	417.6	422.1	393.7
75°	1642.0	474.4	251.1	235.6	271.7	315.0	393.7	422.8	382.1	353.0	342.7
77.5°	511.8	289.8	213.0	189.8	213.0	254.3	329.2	370.5	340.1	295.6	291.7
80°	275.0	213.0	163.9	152.3	168.5	199.4	258.8	309.2	292.4	265.3	236.9
82.5°	181.4	138.1	121.3	118.1	128.4	152.3	192.3	256.2	256.2	227.2	165.2
85°	93.6	84.6	83.3	83.3	89.7	101.3	131.0	197.5	210.4	120.0	99.4
87.5°	46.5	48.4	45.2	47.1	50.3	49.7	62.6	99.4	118.8	72.9	60.7
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)