

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: P194012

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194012
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-04-LED-E1-T3R-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13199 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

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

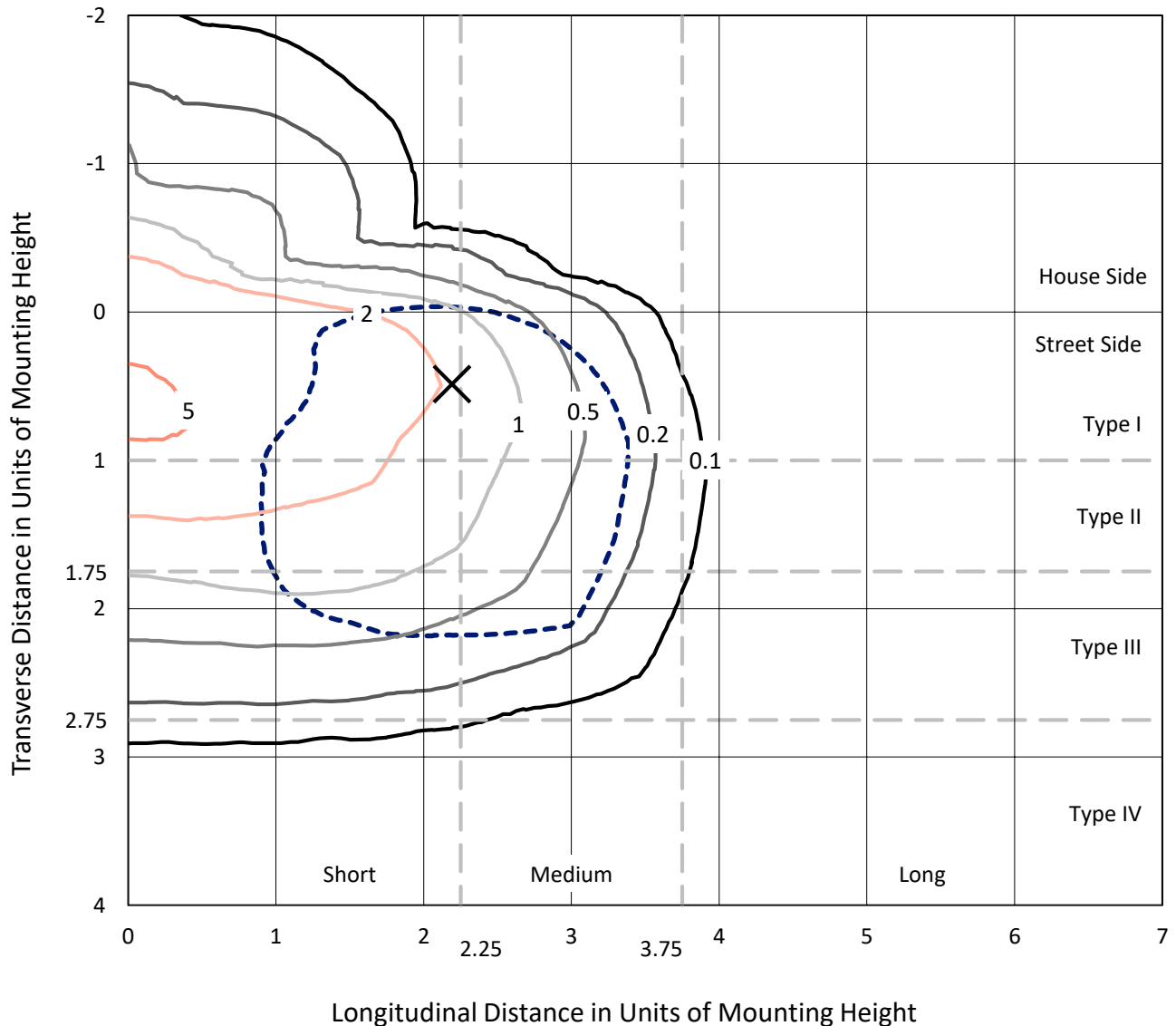


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

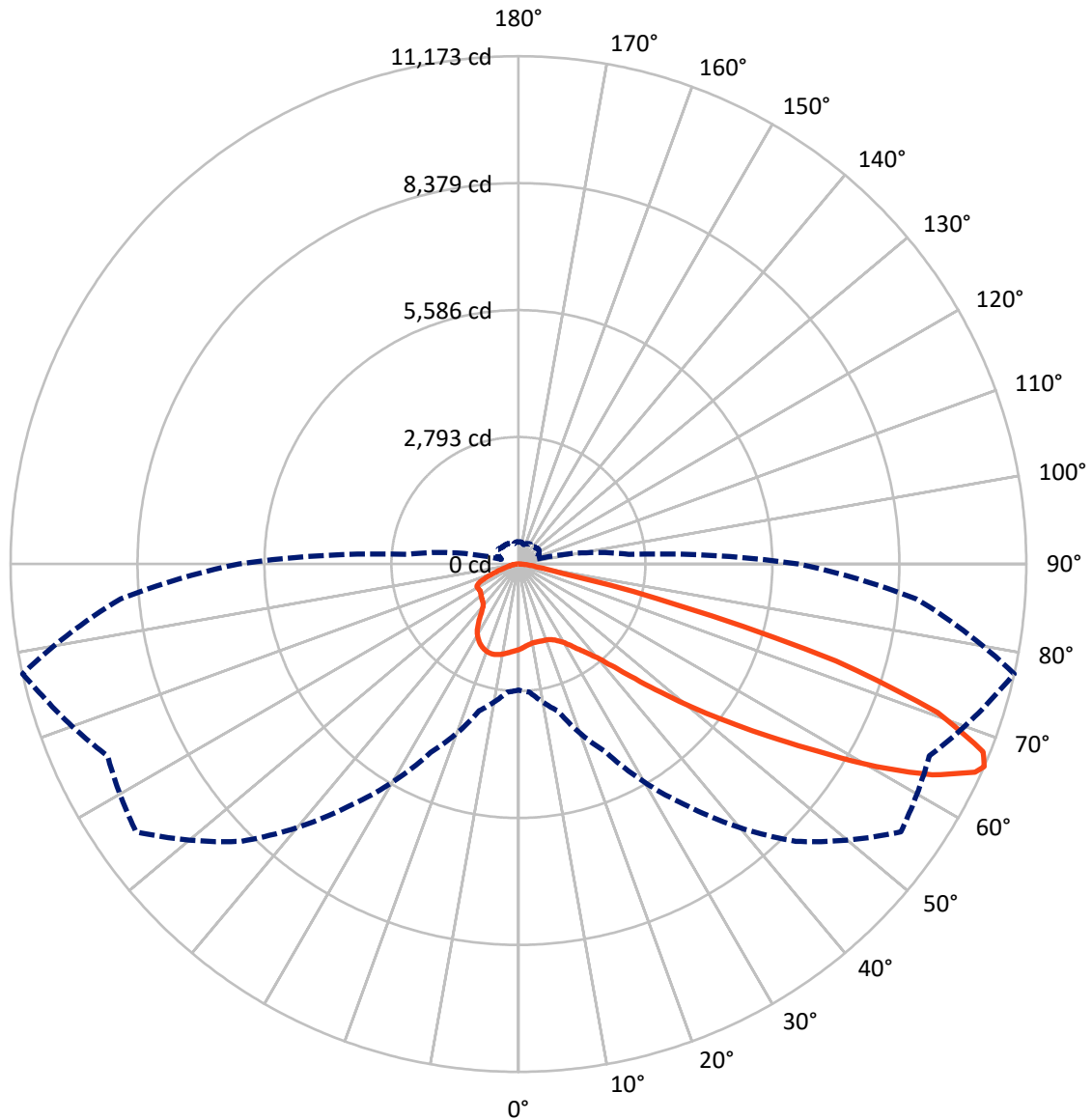


Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - Full Cutoff

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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	2255.0	0.0	2255.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	10944.0	0.0	10944.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	13199.0	0.0	13199.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	1.3
10°-20°	474.1	3.6
20°-30°	809.1	6.1
30°-40°	1295.2	9.8
40°-50°	2001.0	15.2
50°-60°	2838.1	21.5
60°-70°	3796.6	28.8
70°-80°	1648.8	12.5
80°-90°	168.1	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°	13199.0	100.0
0°-180°	13199.0	100.0



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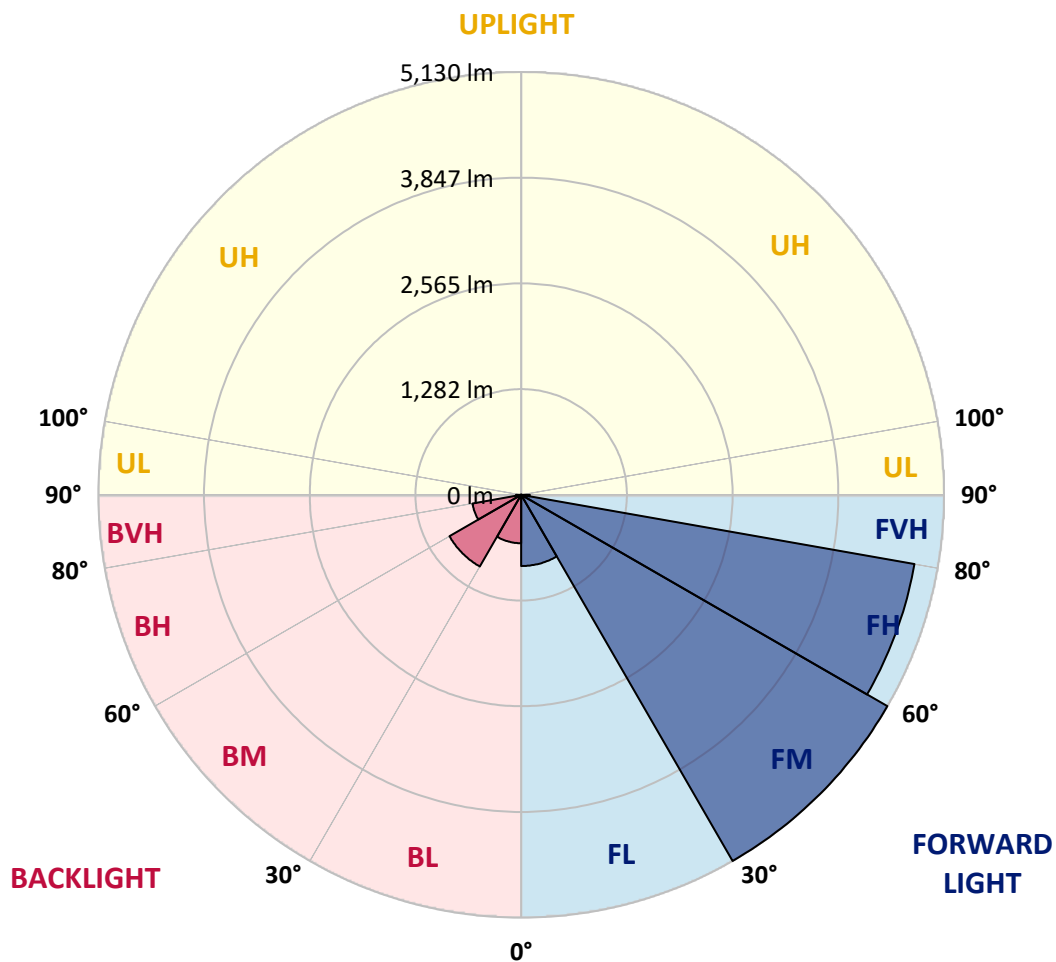
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	863.9	6.5			
FM	(30°-60°)	5129.8	38.9			
FH	(60°-80°)	4844.8	36.7			G2/5000
FVH	(80°-90°)	105.4	0.8			G2/225
BL	(0°-30°)	587.3	4.4	B2/1000		
BM	(30°-60°)	1004.5	7.6	B2/2500		
BH	(60°-80°)	600.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	62.7	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1880.9	1880.9	1880.9	1880.9	1880.9	1880.9	1880.9	1880.9	1880.9	1880.9	1880.9
2.5°	1663.9	1675.1	1684.5	1693.2	1710.7	1739.4	1772.4	1799.2	1837.9	1845.4	1866.0
5°	1511.1	1511.1	1518.6	1531.7	1555.4	1598.4	1643.3	1703.2	1787.4	1807.3	1862.2
7.5°	1436.9	1437.5	1441.9	1453.1	1473.7	1513.0	1562.2	1632.7	1746.8	1779.9	1873.4
10°	1464.3	1458.1	1448.7	1443.1	1446.2	1469.3	1516.1	1594.7	1721.9	1764.3	1898.4
12.5°	1617.7	1605.9	1573.5	1530.4	1489.3	1472.4	1499.9	1576.6	1711.3	1760.6	1931.4
15°	1868.4	1863.5	1803.0	1713.8	1614.0	1530.4	1511.7	1569.7	1712.5	1764.9	1970.7
17.5°	2182.8	2175.9	2096.1	1966.4	1803.6	1640.8	1553.5	1575.3	1716.9	1772.4	2008.8
20°	2500.2	2479.0	2392.9	2238.3	2029.3	1791.1	1622.7	1589.7	1722.5	1780.5	2048.7
22.5°	2737.2	2719.7	2642.4	2492.1	2251.4	1965.1	1715.7	1614.6	1740.6	1804.2	2097.9
25°	2945.5	2946.7	2870.0	2724.7	2475.9	2149.7	1835.4	1681.4	1786.7	1852.9	2165.3
27.5°	3203.1	3188.1	3116.4	2972.3	2697.9	2336.2	1980.1	1773.0	1855.4	1922.1	2253.9
30°	3511.1	3500.5	3417.6	3254.2	2944.2	2536.4	2145.3	1879.7	1943.9	2013.1	2369.9
32.5°	3873.5	3868.5	3782.4	3572.3	3228.6	2772.1	2339.3	2020.6	2076.1	2147.8	2536.4
35°	4298.8	4299.4	4197.8	3945.2	3539.8	3046.5	2559.4	2202.1	2237.0	2311.9	2734.7
37.5°	4560.7	4592.5	4554.5	4296.9	3892.2	3353.4	2845.1	2442.8	2420.4	2495.8	2947.4
40°	4616.9	4655.5	4775.9	4644.9	4286.3	3691.4	3098.3	2674.2	2646.1	2738.4	3221.1
42.5°	4538.3	4591.9	4846.4	4938.7	4704.8	4108.0	3438.8	3017.8	2982.3	3106.4	3561.6
45°	4491.5	4531.4	4825.8	5091.5	5067.8	4578.8	3872.2	3449.4	3436.3	3599.1	3954.5
47.5°	4410.4	4446.6	4729.7	5127.0	5281.0	5010.4	4393.0	3977.0	4002.6	4215.9	4398.0
50°	4454.1	4469.1	4622.5	5036.6	5342.8	5326.6	4974.8	4588.2	4675.5	4941.8	4900.0
52.5°	4447.9	4486.5	4610.0	4888.1	5350.9	5521.8	5548.0	5269.8	5453.8	5759.4	5456.9
55°	3596.0	3667.0	4463.4	4850.7	5379.6	5713.2	6058.1	5988.3	6331.3	6687.4	6085.6
57.5°	3433.8	3478.7	3920.2	4929.3	5531.8	6078.7	6625.6	6779.0	7352.8	7766.3	6851.4
60°	3402.0	3457.5	3914.6	5025.3	5840.5	6674.3	7466.9	7736.3	8595.7	9048.5	7739.5
62.5°	3302.8	3362.7	3877.8	5012.9	6278.9	7498.1	8544.0	8754.1	9774.4	10214.7	8482.2
65°	2988.5	3044.6	3577.9	4811.4	6574.5	8377.5	9818.7	9687.1	10704.9	11036.1	8852.7
66°	2773.4	2828.2	3341.5	4574.5	6505.9	8626.9	10270.2	9975.9	10913.2	11172.6	8780.3
67.5°	2379.8	2422.9	2882.5	4043.7	6141.1	8696.8	10650.0	10192.9	10935.0	11026.7	8366.9
70°	1503.6	1516.1	1873.4	2791.4	4648.7	7542.4	10071.9	9654.1	10033.2	9785.0	7014.2
72.5°	652.3	648.0	899.3	1420.0	2631.8	5060.9	8147.3	7965.8	7870.4	7304.2	4910.0
75°	363.0	368.0	467.1	659.2	1069.6	2485.9	5329.7	5100.2	4306.3	3674.5	2226.4
77.5°	291.2	298.1	387.3	467.7	480.2	866.9	2494.0	2029.3	1221.7	980.4	618.7
80°	230.1	242.6	338.0	364.2	323.7	357.3	805.8	644.2	483.3	443.4	320.6
82.5°	182.1	190.8	290.0	275.7	226.4	240.7	386.0	376.1	314.3	286.3	185.2
85°	131.0	147.2	238.2	207.7	148.4	162.1	256.3	245.7	180.2	147.2	81.7
87.5°	53.6	69.8	168.4	137.8	82.9	75.5	127.8	120.4	85.4	62.4	40.5
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°	1880.9	1880.9	1880.9	1880.9	1880.9	1880.9	1880.9	1880.9	1880.9	1880.9	1880.9
2.5°	1879.0	1894.0	1913.3	1925.2	1931.4	1935.8	1942.7	1942.0	1943.9	1944.5	1947.0
5°	1891.5	1916.5	1944.5	1952.0	1952.0	1945.2	1938.3	1927.1	1922.7	1921.5	1922.7
7.5°	1924.0	1951.4	1975.7	1967.0	1948.3	1920.8	1885.3	1854.1	1837.3	1831.7	1830.4
10°	1965.1	1998.2	2008.1	1975.1	1920.2	1854.1	1783.6	1732.5	1703.2	1695.1	1692.6
12.5°	2015.0	2046.2	2032.5	1962.6	1861.0	1754.3	1657.0	1575.3	1514.2	1494.9	1493.6
15°	2069.9	2094.2	2046.2	1924.0	1772.4	1615.2	1441.9	1300.9	1224.8	1200.5	1198.7
17.5°	2121.0	2133.5	2038.1	1856.6	1642.1	1387.6	1157.5	1049.0	1022.8	1029.0	1030.3
20°	2164.7	2164.7	2010.6	1759.9	1436.9	1087.6	942.3	940.5	959.2	977.9	981.6
22.5°	2212.7	2184.0	1962.6	1623.4	1146.3	889.9	868.7	886.2	907.4	928.0	931.1
25°	2271.9	2199.6	1895.9	1416.3	901.2	808.2	816.4	830.7	841.3	854.4	856.3
27.5°	2338.1	2219.6	1808.0	1131.3	782.1	757.1	763.3	768.3	767.1	772.1	773.3
30°	2417.3	2242.6	1687.6	884.3	732.8	713.5	702.2	697.9	697.9	706.0	709.1
32.5°	2523.3	2276.9	1514.8	757.7	709.1	682.3	646.1	629.9	636.1	663.6	669.8
35°	2639.9	2313.7	1281.0	714.7	704.1	667.9	611.8	581.9	582.5	608.1	616.2
37.5°	2767.1	2360.5	1024.7	706.6	715.3	668.5	593.7	552.6	535.7	535.7	538.8
40°	2929.9	2408.5	829.5	712.2	739.0	676.0	584.4	529.5	482.1	483.3	485.8
42.5°	3141.9	2449.7	724.7	724.1	767.7	686.0	583.7	498.9	457.8	485.8	511.4
45°	3377.7	2470.3	678.5	734.7	790.8	692.2	573.8	493.9	460.9	544.4	593.1
47.5°	3649.0	2458.4	653.0	738.4	796.4	692.2	562.5	505.8	482.7	630.5	687.3
50°	3946.4	2424.1	628.0	730.9	794.5	691.0	573.1	517.6	490.8	645.5	684.8
52.5°	4296.3	2395.4	601.8	714.7	781.4	684.1	585.6	512.6	465.2	586.9	614.3
55°	4695.4	2403.5	572.5	691.6	760.8	671.0	581.2	492.7	438.4	517.0	533.8
57.5°	5205.6	2500.2	537.6	662.3	732.8	649.2	565.6	483.3	430.3	469.0	479.0
60°	5775.0	2668.6	493.9	633.0	697.9	614.3	553.8	487.7	434.1	465.2	470.2
62.5°	6192.8	2766.5	456.5	590.0	650.5	575.6	538.8	493.3	444.0	478.3	477.1
65°	6306.3	2605.6	409.7	527.0	586.2	535.1	520.1	499.5	448.4	488.9	483.3
66°	6147.3	2432.2	389.2	497.7	553.8	515.1	510.8	498.9	446.5	490.2	480.8
67.5°	5761.3	2076.7	353.6	454.6	502.0	485.2	495.8	493.3	441.5	488.9	475.8
70°	4698.6	1416.9	302.5	378.6	417.8	427.2	467.1	473.3	425.3	467.1	438.4
72.5°	3282.9	863.1	267.5	293.7	338.0	364.2	427.8	445.9	403.5	407.9	380.4
75°	1586.6	458.4	242.6	227.6	262.6	304.3	380.4	408.5	369.2	341.1	331.2
77.5°	494.6	280.0	205.8	183.4	205.8	245.7	318.1	358.0	328.7	285.6	281.9
80°	265.7	205.8	158.4	147.2	162.8	192.7	250.1	298.7	282.5	256.3	228.9
82.5°	175.2	133.5	117.2	114.1	124.1	147.2	185.8	247.6	247.6	219.5	159.7
85°	90.4	81.7	80.5	80.5	86.7	97.9	126.6	190.8	203.3	116.0	96.0
87.5°	44.9	46.8	43.7	45.5	48.6	48.0	60.5	96.0	114.8	70.5	58.6
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)