

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: P191500

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191500
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-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 13973.5 lumens
Efficiency: N/A
Efficacy: 108.3 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

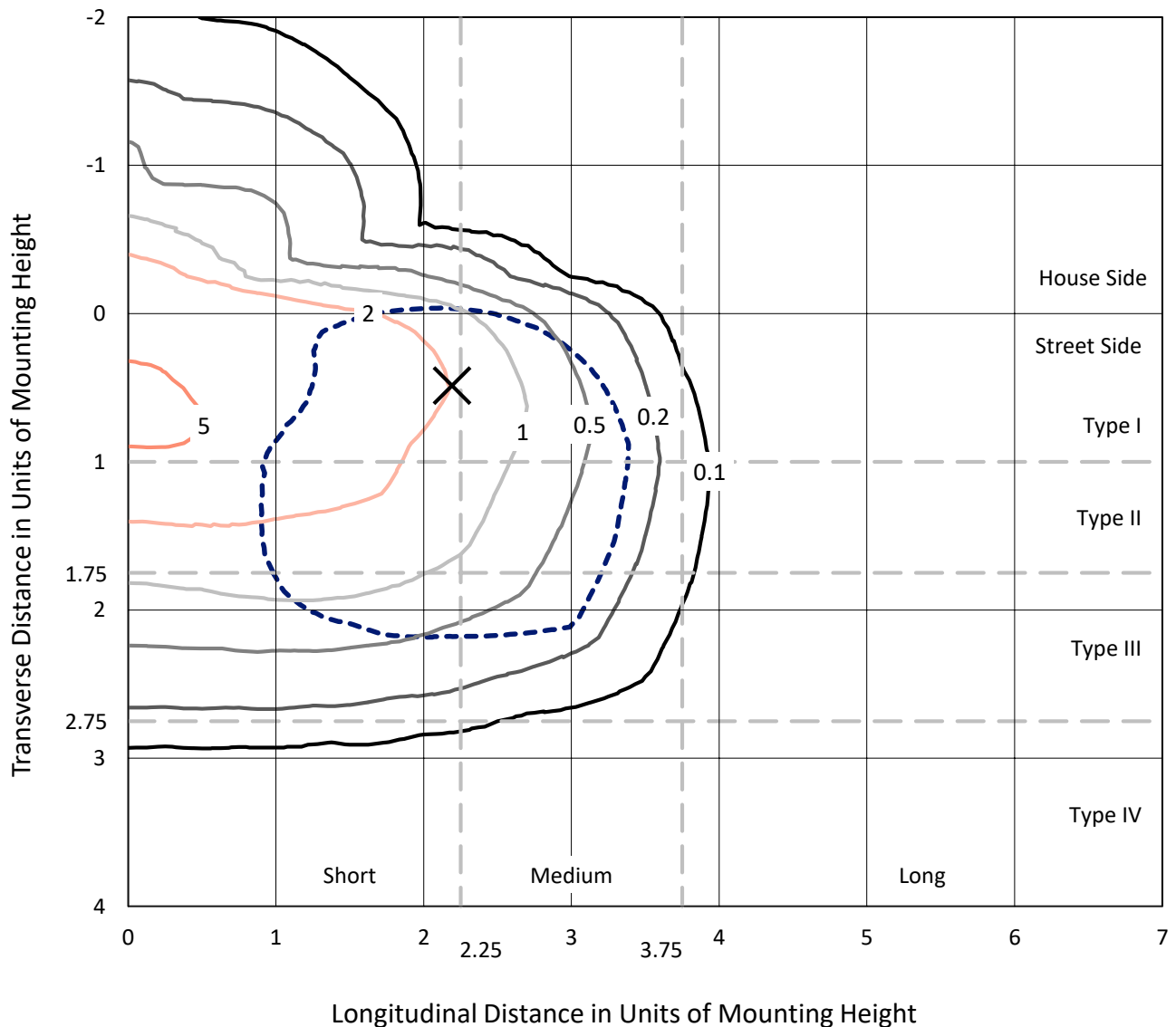
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

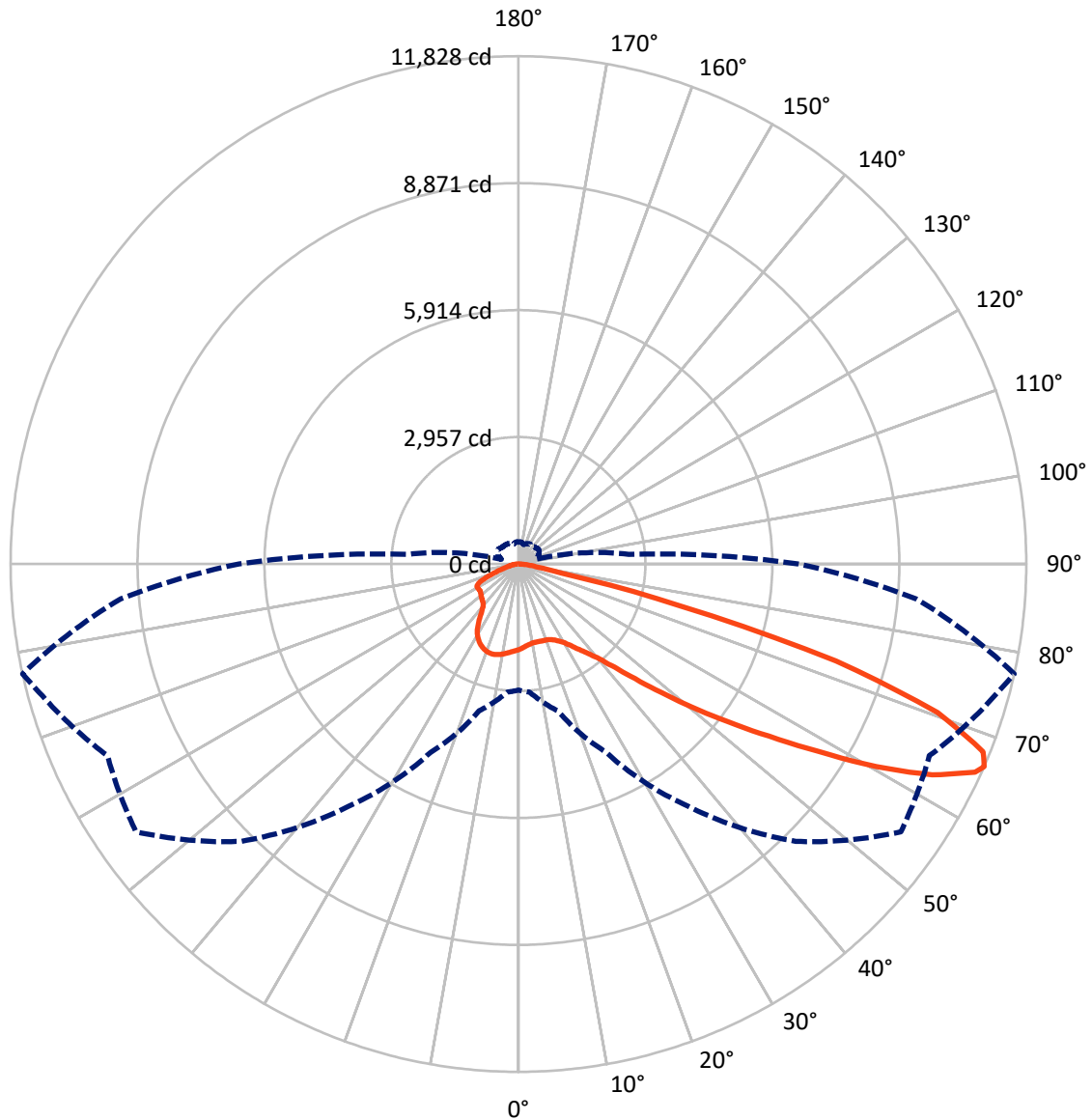
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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	2387.3	0.0	2387.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	11586.2	0.0	11586.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	13973.5	0.0	13973.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	1.3
10°-20°	501.9	3.6
20°-30°	856.6	6.1
30°-40°	1371.2	9.8
40°-50°	2118.4	15.2
50°-60°	3004.6	21.5
60°-70°	4019.4	28.8
70°-80°	1745.5	12.5
80°-90°	178.0	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°	13973.5	100.0
0°-180°	13973.5	100.0



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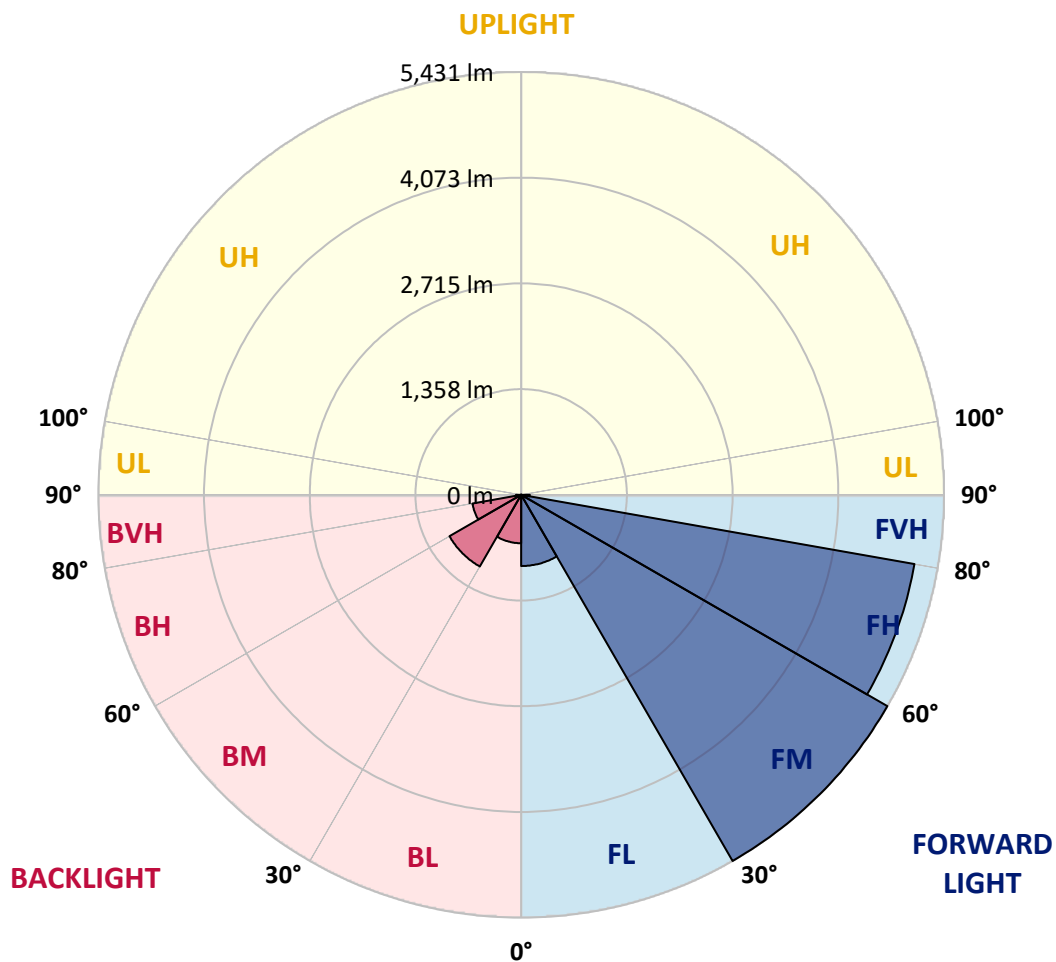
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	914.6	6.5			
FM	(30°-60°)	5430.8	38.9			
FH	(60°-80°)	5129.1	36.7			G3/7500
FVH	(80°-90°)	111.6	0.8			G2/225
BL	(0°-30°)	621.7	4.4	B2/1000		
BM	(30°-60°)	1063.4	7.6	B2/2500		
BH	(60°-80°)	635.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	66.4	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°	1991.3	1991.3	1991.3	1991.3	1991.3	1991.3	1991.3	1991.3	1991.3	1991.3	1991.3
2.5°	1761.5	1773.4	1783.3	1792.5	1811.0	1841.4	1876.4	1904.8	1945.8	1953.6	1975.4
5°	1599.8	1599.8	1607.7	1621.6	1646.6	1692.2	1739.7	1803.2	1892.3	1913.4	1971.5
7.5°	1521.2	1521.8	1526.4	1538.4	1560.1	1601.7	1653.9	1728.5	1849.3	1884.4	1983.4
10°	1550.3	1543.6	1533.7	1527.8	1531.2	1555.5	1605.0	1688.3	1822.9	1867.8	2009.8
12.5°	1712.6	1700.1	1665.8	1620.3	1576.7	1558.9	1587.9	1669.0	1811.7	1863.8	2044.8
15°	1978.1	1972.8	1908.7	1814.3	1708.7	1620.3	1600.4	1661.8	1813.0	1868.5	2086.4
17.5°	2310.8	2303.6	2219.1	2081.7	1909.4	1737.1	1644.7	1667.8	1817.7	1876.4	2126.6
20°	2646.9	2624.5	2533.3	2369.6	2148.4	1896.2	1717.9	1683.0	1823.6	1885.0	2168.9
22.5°	2897.8	2879.3	2797.5	2638.3	2383.5	2080.4	1816.4	1709.4	1842.7	1910.1	2221.0
25°	3118.4	3119.7	3038.5	2884.6	2621.2	2275.9	1943.1	1780.0	1891.6	1961.6	2292.3
27.5°	3391.0	3375.1	3299.2	3146.7	2856.2	2473.3	2096.2	1877.1	1964.3	2034.9	2386.1
30°	3717.2	3705.9	3618.2	3445.2	3117.0	2685.2	2271.3	1989.9	2058.0	2131.2	2508.9
32.5°	4100.8	4095.5	4004.3	3781.8	3418.1	2934.7	2476.6	2139.2	2197.9	2273.9	2685.2
35°	4551.0	4551.7	4444.1	4176.7	3747.6	3225.3	2709.6	2331.3	2368.3	2447.5	2895.2
37.5°	4828.3	4862.0	4821.8	4549.1	4120.5	3550.2	3012.0	2586.1	2562.4	2642.3	3120.3
40°	4887.8	4928.7	5056.1	4917.5	4537.8	3908.0	3280.1	2831.1	2801.5	2899.1	3410.1
42.5°	4804.6	4861.4	5130.7	5228.5	4980.8	4349.0	3640.6	3194.9	3157.2	3288.7	3770.6
45°	4755.1	4797.3	5108.9	5390.2	5365.2	4847.5	4099.5	3651.8	3637.9	3810.3	4186.6
47.5°	4669.3	4707.5	5007.2	5427.9	5590.9	5304.4	4650.7	4210.4	4237.5	4463.2	4656.1
50°	4715.5	4731.2	4893.7	5332.1	5656.3	5639.1	5266.8	4857.4	4949.9	5231.8	5187.5
52.5°	4708.8	4749.8	4880.5	5175.0	5664.9	5845.8	5873.5	5579.1	5773.8	6097.3	5777.1
55°	3806.9	3882.2	4725.3	5135.3	5695.3	6048.5	6413.6	6339.6	6702.8	7079.7	6442.6
57.5°	3635.3	3682.8	4150.3	5218.6	5856.4	6435.4	7014.4	7176.8	7784.2	8222.0	7253.4
60°	3601.6	3660.4	4144.4	5320.3	6183.1	7065.9	7905.1	8190.4	9100.2	9579.4	8193.6
62.5°	3496.7	3560.1	4105.4	5307.1	6647.3	7938.1	9045.3	9267.8	10348.0	10814.1	8980.0
65°	3163.9	3223.3	3787.8	5093.8	6960.3	8869.1	10394.8	10255.6	11333.1	11683.6	9372.2
66°	2936.1	2994.2	3537.6	4842.9	6887.6	9133.1	10872.8	10561.3	11553.6	11828.3	9295.6
67.5°	2519.5	2565.0	3051.7	4281.0	6501.4	9207.1	11275.0	10791.0	11576.7	11673.7	8857.8
70°	1591.8	1605.0	1983.4	2955.2	4921.4	7984.9	10662.9	10220.5	10622.0	10359.2	7425.7
72.5°	690.6	686.0	952.1	1503.3	2786.2	5357.9	8625.4	8433.3	8332.2	7732.8	5198.1
75°	384.2	389.5	494.5	697.9	1132.3	2631.7	5642.4	5399.4	4559.0	3890.2	2357.1
77.5°	308.3	315.6	410.0	495.2	508.4	917.7	2640.3	2148.4	1293.4	1037.9	655.0
80°	243.7	256.9	357.8	385.6	342.7	378.3	853.0	682.0	511.7	469.4	339.4
82.5°	192.8	202.0	307.0	291.8	239.7	254.8	408.7	398.1	332.8	303.1	196.1
85°	138.6	155.8	252.3	219.8	157.1	171.7	271.4	260.1	190.8	155.8	86.5
87.5°	56.8	74.0	178.3	145.9	87.8	79.9	135.3	127.5	90.4	66.0	43.0
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°	1991.3	1991.3	1991.3	1991.3	1991.3	1991.3	1991.3	1991.3	1991.3	1991.3	1991.3
2.5°	1989.3	2005.2	2025.6	2038.1	2044.8	2049.4	2056.6	2056.0	2058.0	2058.6	2061.2
5°	2002.5	2028.9	2058.6	2066.6	2066.6	2059.3	2052.0	2040.2	2035.6	2034.2	2035.6
7.5°	2036.8	2065.8	2091.6	2082.4	2062.6	2033.5	1995.9	1962.9	1945.0	1939.1	1937.8
10°	2080.4	2115.5	2126.0	2091.0	2032.9	1962.9	1888.3	1834.2	1803.2	1794.6	1791.9
12.5°	2133.3	2166.3	2151.8	2077.8	1970.2	1857.3	1754.3	1667.8	1603.1	1582.6	1581.3
15°	2191.4	2217.1	2166.3	2036.8	1876.4	1710.1	1526.4	1377.3	1296.7	1271.0	1269.0
17.5°	2245.5	2258.7	2157.7	1965.5	1738.4	1469.1	1225.4	1110.5	1082.8	1089.4	1090.7
20°	2291.7	2291.7	2128.7	1863.2	1521.2	1151.4	997.6	995.6	1015.5	1035.2	1039.2
22.5°	2342.6	2312.2	2077.8	1718.7	1213.5	942.1	919.7	938.3	960.7	982.4	985.7
25°	2405.3	2328.6	2007.1	1499.4	954.0	855.7	864.3	879.4	890.7	904.5	906.5
27.5°	2475.2	2349.8	1914.0	1197.7	828.0	801.6	808.1	813.5	812.1	817.3	818.7
30°	2559.1	2374.3	1786.6	936.2	775.8	755.3	743.5	738.8	738.8	747.4	750.7
32.5°	2671.3	2410.6	1603.7	802.2	750.7	722.3	684.0	666.9	673.4	702.5	709.1
35°	2794.8	2449.5	1356.1	756.7	745.4	707.2	647.7	616.0	616.6	643.7	652.3
37.5°	2929.5	2499.1	1084.7	748.1	757.3	707.8	628.5	585.0	567.1	567.1	570.5
40°	3101.8	2549.8	878.1	754.0	782.4	715.7	618.7	560.6	510.4	511.7	514.3
42.5°	3326.3	2593.4	767.2	766.5	812.7	726.3	618.0	528.1	484.6	514.3	541.4
45°	3575.8	2615.2	718.3	777.7	837.2	732.8	607.4	522.9	487.9	576.4	627.9
47.5°	3863.1	2602.7	691.3	781.7	843.1	732.8	595.6	535.4	511.1	667.5	727.6
50°	4178.0	2566.4	664.8	773.8	841.2	731.5	606.7	548.0	519.7	683.3	725.0
52.5°	4548.4	2536.0	637.1	756.7	827.3	724.2	620.0	542.7	492.6	621.2	650.3
55°	4970.9	2544.6	606.1	732.2	805.5	710.4	615.3	521.6	464.1	547.4	565.2
57.5°	5511.0	2646.9	569.2	701.1	775.8	687.3	598.8	511.7	455.5	496.5	507.1
60°	6113.9	2825.2	522.9	670.1	738.8	650.3	586.3	516.3	459.5	492.6	497.9
62.5°	6556.2	2928.8	483.3	624.6	688.7	609.4	570.5	522.2	470.0	506.4	505.1
65°	6676.4	2758.5	433.7	557.9	620.6	566.5	550.7	528.9	474.8	517.6	511.7
66°	6508.0	2575.0	411.9	526.9	586.3	545.3	540.7	528.1	472.7	518.9	509.0
67.5°	6099.3	2198.6	374.4	481.3	531.5	513.6	524.9	522.2	467.5	517.6	503.8
70°	4974.3	1500.1	320.2	400.8	442.3	452.2	494.5	501.1	450.3	494.5	464.1
72.5°	3475.5	913.8	283.3	311.0	357.8	385.6	453.0	472.1	427.2	431.8	402.7
75°	1679.7	485.3	256.9	241.0	277.9	322.2	402.7	432.5	390.9	361.1	350.6
77.5°	523.5	296.5	217.9	194.2	217.9	260.1	336.8	379.0	347.9	302.4	298.4
80°	281.3	217.9	167.7	155.8	172.4	204.0	264.7	316.3	299.1	271.4	242.3
82.5°	185.6	141.3	124.1	120.8	131.3	155.8	196.7	262.1	262.1	232.4	169.0
85°	95.7	86.5	85.2	85.2	91.8	103.6	134.0	202.0	215.2	122.8	101.7
87.5°	47.6	49.5	46.2	48.2	51.5	50.8	64.0	101.7	121.5	74.6	62.1
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)