

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: P269270

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269270
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-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 14052.8 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' 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 (A_{in}): 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

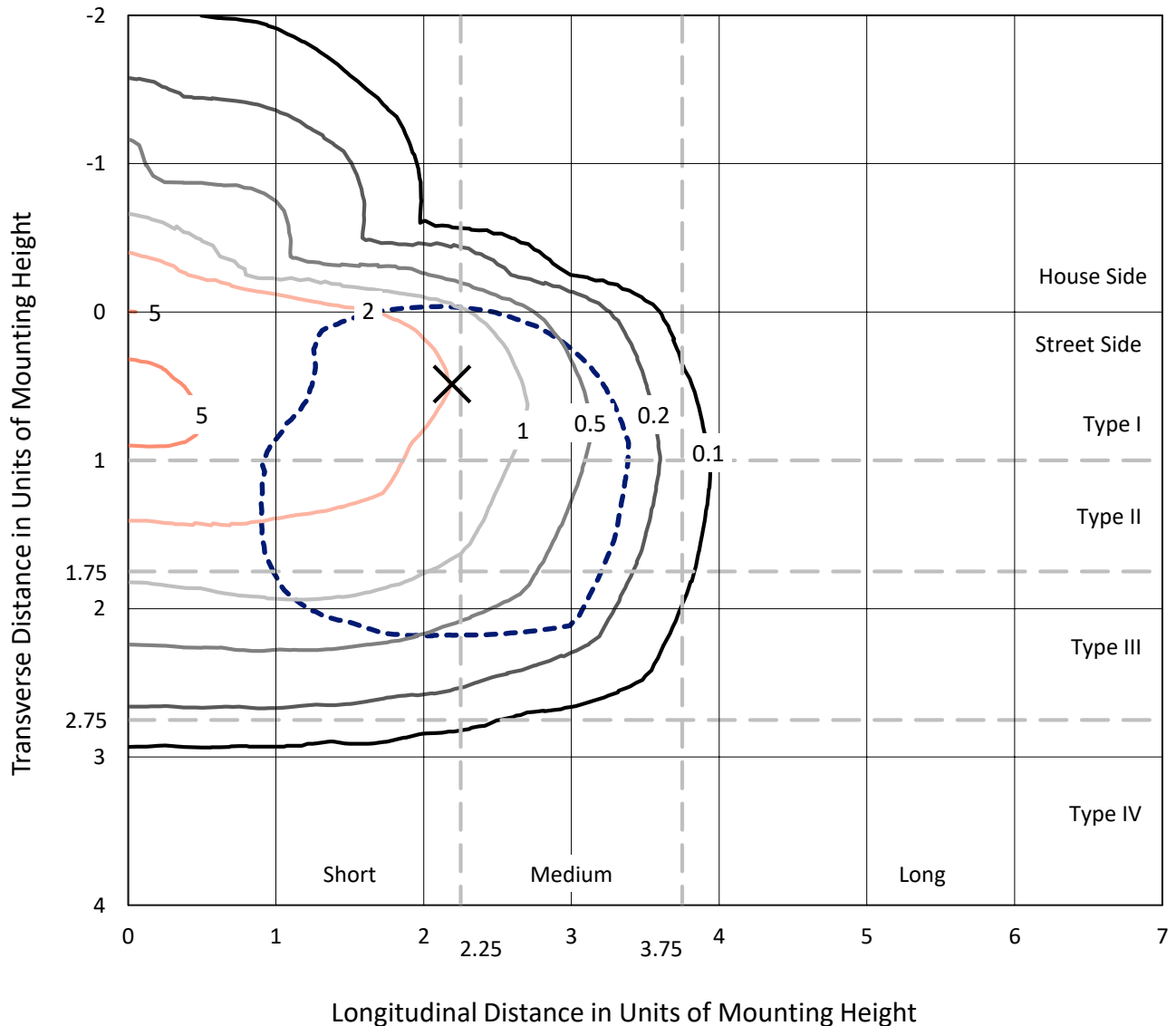


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

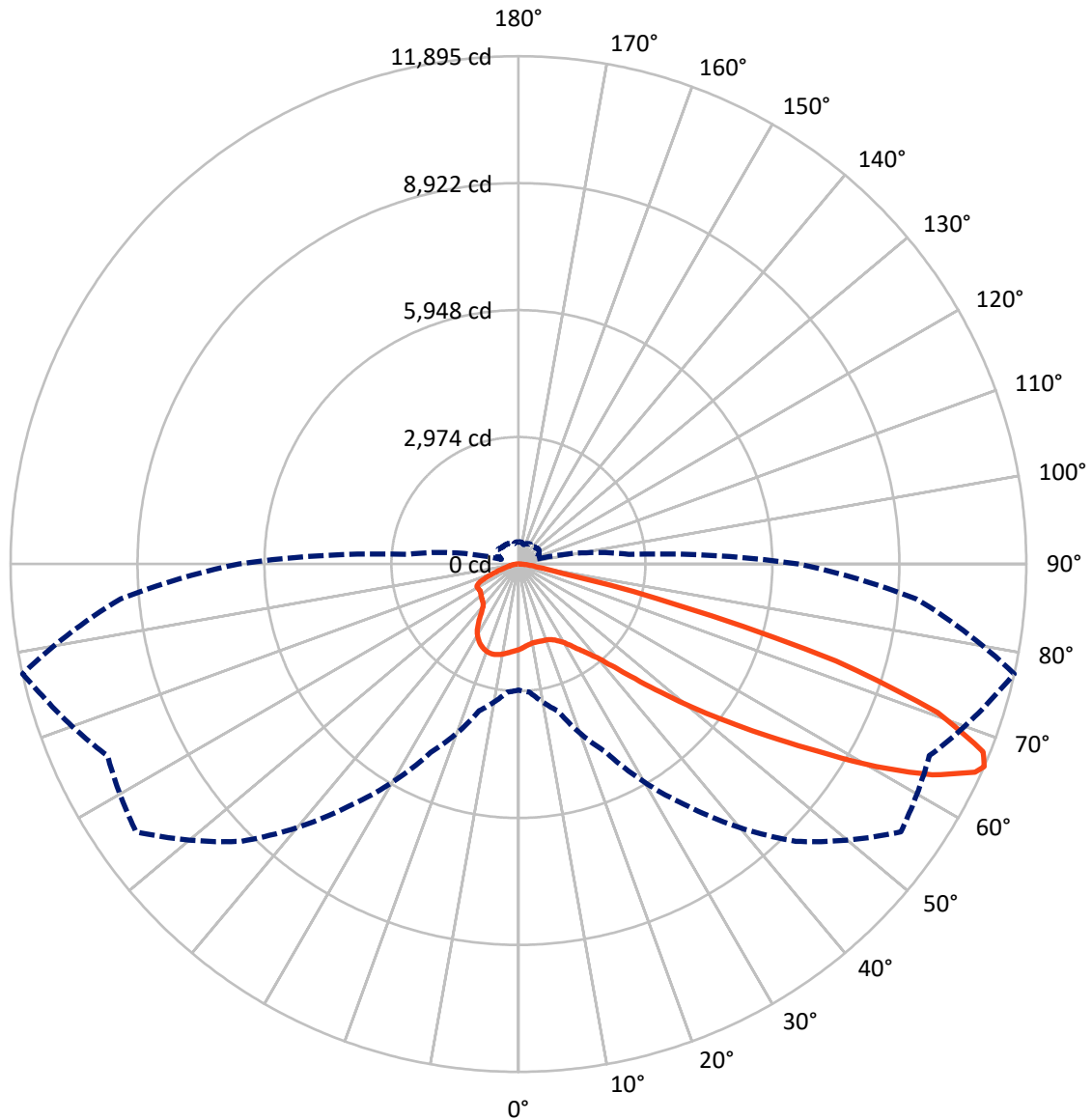


Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - Full Cutoff

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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	2400.8	0.0	2400.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	11652.0	0.0	11652.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	14052.8	0.0	14052.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	1.3
10°-20°	504.8	3.6
20°-30°	861.4	6.1
30°-40°	1379.0	9.8
40°-50°	2130.4	15.2
50°-60°	3021.7	21.5
60°-70°	4042.2	28.8
70°-80°	1755.5	12.5
80°-90°	179.0	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°	14052.8	100.0
0°-180°	14052.8	100.0



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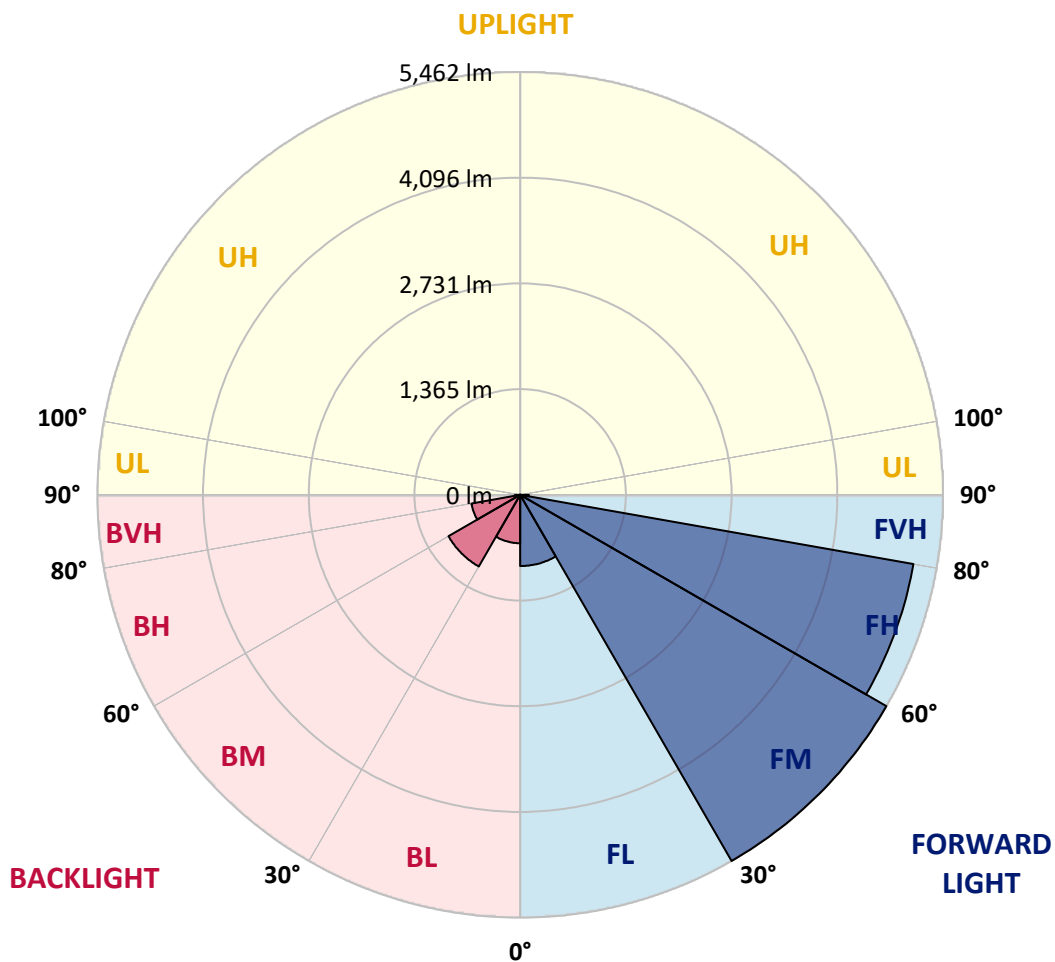
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	919.8	6.5			
FM (30°-60°)	5461.7	38.9			
FH (60°-80°)	5158.3	36.7			G3/7500
FVH (80°-90°)	112.3	0.8			G2/225
BL (0°-30°)	625.3	4.4	B2/1000		
BM (30°-60°)	1069.4	7.6	B2/2500		
BH (60°-80°)	639.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	66.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2002.6	2002.6	2002.6	2002.6	2002.6	2002.6	2002.6	2002.6	2002.6	2002.6	2002.6
2.5°	1771.5	1783.5	1793.5	1802.8	1821.4	1851.9	1887.1	1915.6	1956.8	1964.8	1986.6
5°	1608.9	1608.9	1616.8	1630.8	1655.9	1701.7	1749.5	1813.4	1903.0	1924.3	1982.6
7.5°	1529.9	1530.5	1535.2	1547.2	1569.0	1610.8	1663.3	1738.3	1859.9	1895.1	1994.6
10°	1559.1	1552.5	1542.5	1536.6	1539.8	1564.4	1614.2	1697.8	1833.4	1878.4	2021.1
12.5°	1722.4	1709.7	1675.2	1629.4	1585.6	1567.7	1596.8	1678.6	1822.0	1874.5	2056.4
15°	1989.3	1983.9	1919.6	1824.6	1718.4	1629.4	1609.6	1671.2	1823.3	1879.2	2098.3
17.5°	2323.9	2316.6	2231.7	2093.6	1920.2	1746.9	1654.0	1677.2	1828.1	1887.1	2138.8
20°	2661.9	2639.4	2547.8	2383.1	2160.7	1907.0	1727.7	1692.4	1833.9	1895.8	2181.3
22.5°	2914.2	2895.6	2813.3	2653.4	2396.9	2092.2	1826.7	1719.0	1853.3	1920.9	2233.6
25°	3136.1	3137.4	3055.7	2900.9	2636.0	2288.8	1954.2	1790.1	1902.3	1972.7	2305.4
27.5°	3410.2	3394.3	3318.0	3164.5	2872.4	2487.2	2108.1	1887.7	1975.4	2046.3	2399.6
30°	3738.2	3727.0	3638.7	3464.8	3134.6	2700.5	2284.1	2001.2	2069.7	2143.4	2523.2
32.5°	4124.1	4118.8	4027.1	3803.3	3437.5	2951.4	2490.6	2151.4	2210.4	2286.7	2700.5
35°	4576.9	4577.6	4469.3	4200.5	3768.7	3243.6	2725.0	2344.5	2381.8	2461.4	2911.5
37.5°	4855.8	4889.7	4849.1	4574.9	4144.1	3570.3	3029.2	2600.9	2577.0	2657.2	3138.0
40°	4915.5	4956.7	5084.9	4945.3	4563.6	3930.2	3298.7	2847.2	2817.4	2915.5	3429.5
42.5°	4831.9	4888.9	5159.9	5258.1	5009.2	4373.7	3661.2	3213.1	3175.1	3307.3	3792.0
45°	4782.0	4824.5	5137.9	5420.8	5395.6	4875.0	4122.7	3672.5	3658.5	3831.9	4210.4
47.5°	4695.7	4734.2	5035.7	5458.7	5622.8	5334.6	4677.1	4234.3	4261.5	4488.7	4682.4
50°	4742.2	4758.1	4921.5	5362.4	5688.3	5671.2	5296.6	4885.1	4978.0	5261.5	5216.9
52.5°	4735.5	4776.7	4908.2	5204.4	5697.1	5879.0	5906.9	5610.8	5806.6	6132.0	5809.9
55°	3828.5	3904.3	4752.3	5164.5	5727.7	6082.9	6450.0	6375.6	6740.8	7120.0	6479.2
57.5°	3655.9	3703.7	4173.9	5248.2	5889.6	6471.8	7054.2	7217.6	7828.5	8268.7	7294.5
60°	3622.1	3681.2	4167.9	5350.5	6218.2	7106.0	7950.0	8236.7	9151.8	9633.9	8240.2
62.5°	3516.4	3580.3	4128.7	5337.2	6685.0	7983.1	9096.6	9320.5	10406.8	10875.5	9030.9
65°	3181.8	3241.7	3809.4	5122.7	6999.9	8919.5	10453.8	10313.8	11397.4	11750.0	9425.3
66°	2952.8	3011.2	3557.6	4870.4	6926.8	9185.0	10934.6	10621.2	11619.1	11895.4	9348.3
67.5°	2533.8	2579.7	3069.0	4305.3	6538.4	9259.4	11338.9	10852.2	11642.5	11739.9	8908.1
70°	1600.9	1614.2	1994.6	2972.0	4949.4	8030.3	10723.4	10278.5	10682.3	10418.1	7467.9
72.5°	694.5	689.9	957.5	1511.8	2802.1	5388.4	8674.5	8481.2	8379.6	7776.6	5227.5
75°	386.5	391.8	497.3	701.8	1138.7	2646.6	5674.5	5430.2	4584.9	3912.3	2370.4
77.5°	310.1	317.5	412.3	498.0	511.2	923.0	2655.3	2160.7	1300.7	1043.8	658.6
80°	245.0	258.4	360.0	387.8	344.6	380.4	857.9	685.9	514.5	472.1	341.3
82.5°	193.9	203.1	308.7	293.4	241.0	256.2	411.1	400.4	334.7	304.7	197.2
85°	139.4	156.8	253.6	221.2	158.0	172.7	272.8	261.5	191.9	156.8	87.0
87.5°	57.1	74.4	179.3	146.8	88.4	80.4	136.2	128.2	91.0	66.5	43.2
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°	2002.6	2002.6	2002.6	2002.6	2002.6	2002.6	2002.6	2002.6	2002.6	2002.6	2002.6
2.5°	2000.6	2016.5	2037.1	2049.8	2056.4	2061.0	2068.3	2067.7	2069.7	2070.4	2073.0
5°	2013.9	2040.4	2070.4	2078.3	2078.3	2071.0	2063.6	2051.6	2047.1	2045.8	2047.1
7.5°	2048.4	2077.6	2103.6	2094.2	2074.2	2045.1	2007.3	1974.0	1956.1	1950.1	1948.9
10°	2092.2	2127.5	2138.1	2102.8	2044.5	1974.0	1898.9	1844.6	1813.4	1804.8	1802.1
12.5°	2145.3	2178.6	2163.9	2089.5	1981.3	1867.8	1764.2	1677.2	1612.2	1591.5	1590.3
15°	2203.8	2229.8	2178.6	2048.4	1887.1	1719.7	1535.2	1385.0	1304.1	1278.2	1276.2
17.5°	2258.2	2271.5	2169.9	1976.7	1748.3	1477.4	1232.4	1116.9	1088.9	1095.7	1096.9
20°	2304.7	2304.7	2140.8	1873.8	1529.9	1158.0	1003.2	1001.3	1021.3	1041.1	1045.1
22.5°	2355.8	2325.4	2089.5	1728.3	1220.3	947.5	925.0	943.5	966.0	988.0	991.3
25°	2419.0	2341.9	2018.5	1508.0	959.5	860.5	869.2	884.4	895.7	909.7	911.7
27.5°	2489.4	2363.1	1924.9	1204.4	832.6	806.0	812.7	818.0	816.6	821.9	823.3
30°	2573.6	2387.8	1796.8	941.6	780.2	759.5	747.7	743.0	743.0	751.6	754.9
32.5°	2686.6	2424.3	1612.8	806.8	754.9	726.4	687.9	670.7	677.2	706.4	713.2
35°	2810.6	2463.4	1363.8	761.0	749.6	711.2	651.5	619.6	620.2	647.4	656.0
37.5°	2946.1	2513.2	1090.9	752.3	761.7	711.7	632.0	588.3	570.3	570.3	573.7
40°	3119.5	2564.3	883.2	758.3	786.8	719.7	622.2	563.7	513.2	514.5	517.2
42.5°	3345.2	2608.1	771.6	770.8	817.4	730.4	621.4	531.2	487.4	517.2	544.5
45°	3596.2	2630.1	722.4	782.2	841.9	737.0	610.8	525.9	490.7	579.6	631.5
47.5°	3885.0	2617.4	695.2	786.1	847.9	737.0	598.9	538.5	513.9	671.4	731.7
50°	4201.7	2580.9	668.7	778.2	845.9	735.7	610.2	551.1	522.5	687.3	729.1
52.5°	4574.2	2550.4	640.8	761.0	832.0	728.3	623.6	545.8	495.3	624.9	654.1
55°	4999.2	2559.0	609.5	736.4	810.1	714.4	618.8	524.6	466.8	550.4	568.4
57.5°	5542.4	2661.9	572.4	705.2	780.2	691.2	602.3	514.5	458.1	499.3	510.0
60°	6148.5	2841.2	525.9	674.0	743.0	654.1	589.6	519.2	462.2	495.3	500.6
62.5°	6593.4	2945.5	486.1	628.2	692.6	612.9	573.7	525.1	472.8	509.2	507.9
65°	6714.3	2774.1	436.2	561.1	624.1	569.7	553.7	531.8	477.4	520.6	514.5
66°	6545.1	2589.5	414.3	529.9	589.6	548.4	543.8	531.2	475.5	521.8	511.9
67.5°	6133.9	2211.1	376.5	484.0	534.5	516.5	527.8	525.1	470.2	520.6	506.6
70°	5002.5	1508.7	322.0	403.0	444.9	454.8	497.3	503.9	452.8	497.3	466.8
72.5°	3495.2	919.0	284.9	312.7	360.0	387.8	455.5	474.8	429.6	434.2	405.0
75°	1689.3	488.0	258.4	242.4	279.6	324.0	405.0	434.9	393.1	363.3	352.6
77.5°	526.5	298.1	219.1	195.2	219.1	261.5	338.7	381.2	349.9	304.0	300.2
80°	282.8	219.1	168.6	156.8	173.4	205.2	266.3	318.1	300.8	272.8	243.7
82.5°	186.6	142.1	124.9	121.5	132.1	156.8	197.8	263.7	263.7	233.6	170.0
85°	96.3	87.0	85.7	85.7	92.3	104.3	134.7	203.1	216.4	123.4	102.2
87.5°	47.8	49.8	46.5	48.5	51.8	51.2	64.4	102.2	122.2	75.0	62.4
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)