

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: P301153

Luminaire Tested: **GLNA-AF-03-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P301153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-03-LED-E1-T3R-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III  
Roadway OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14468.4 lumens  
Efficiency: N/A  
Efficacy: 116.7 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

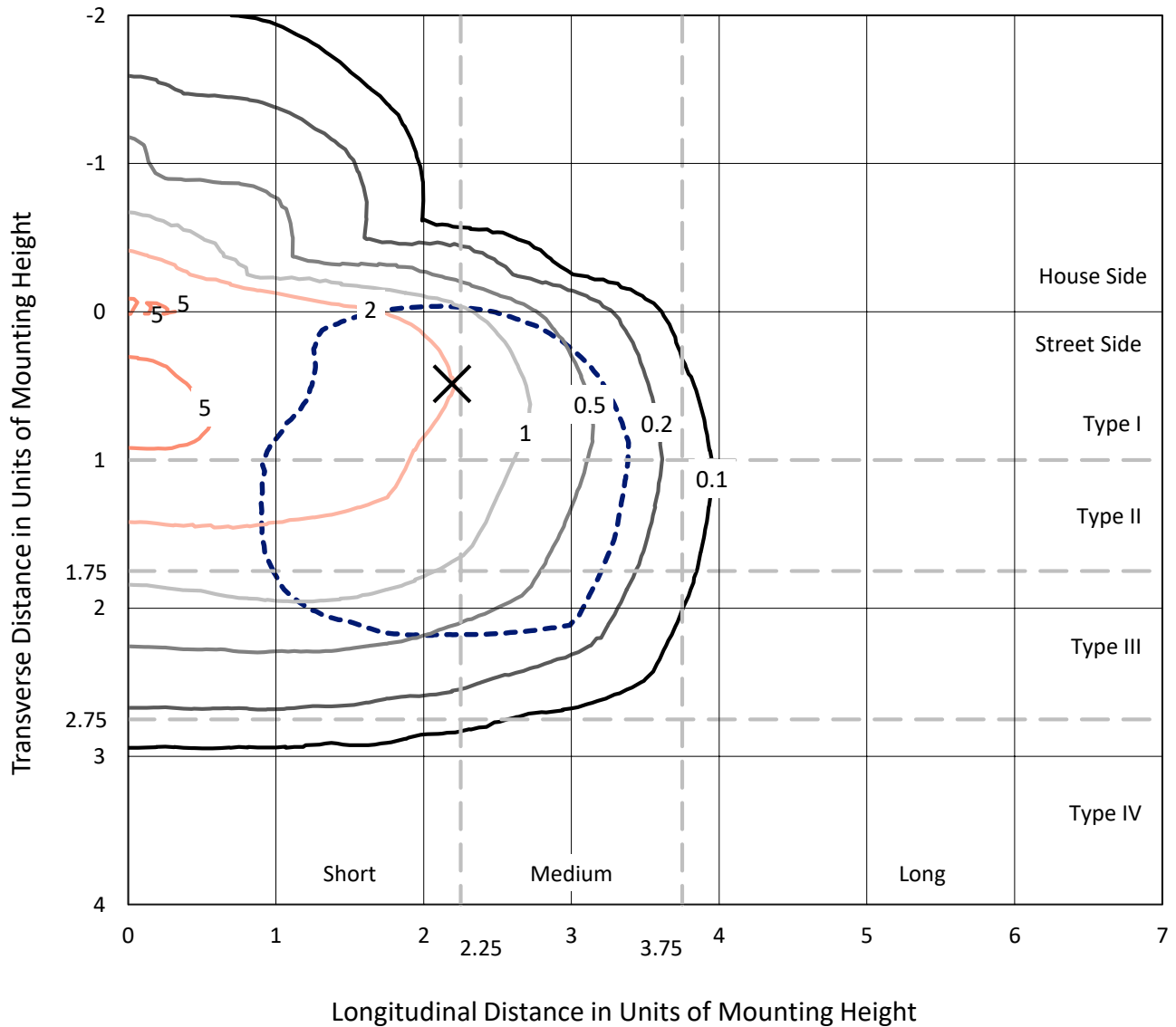
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

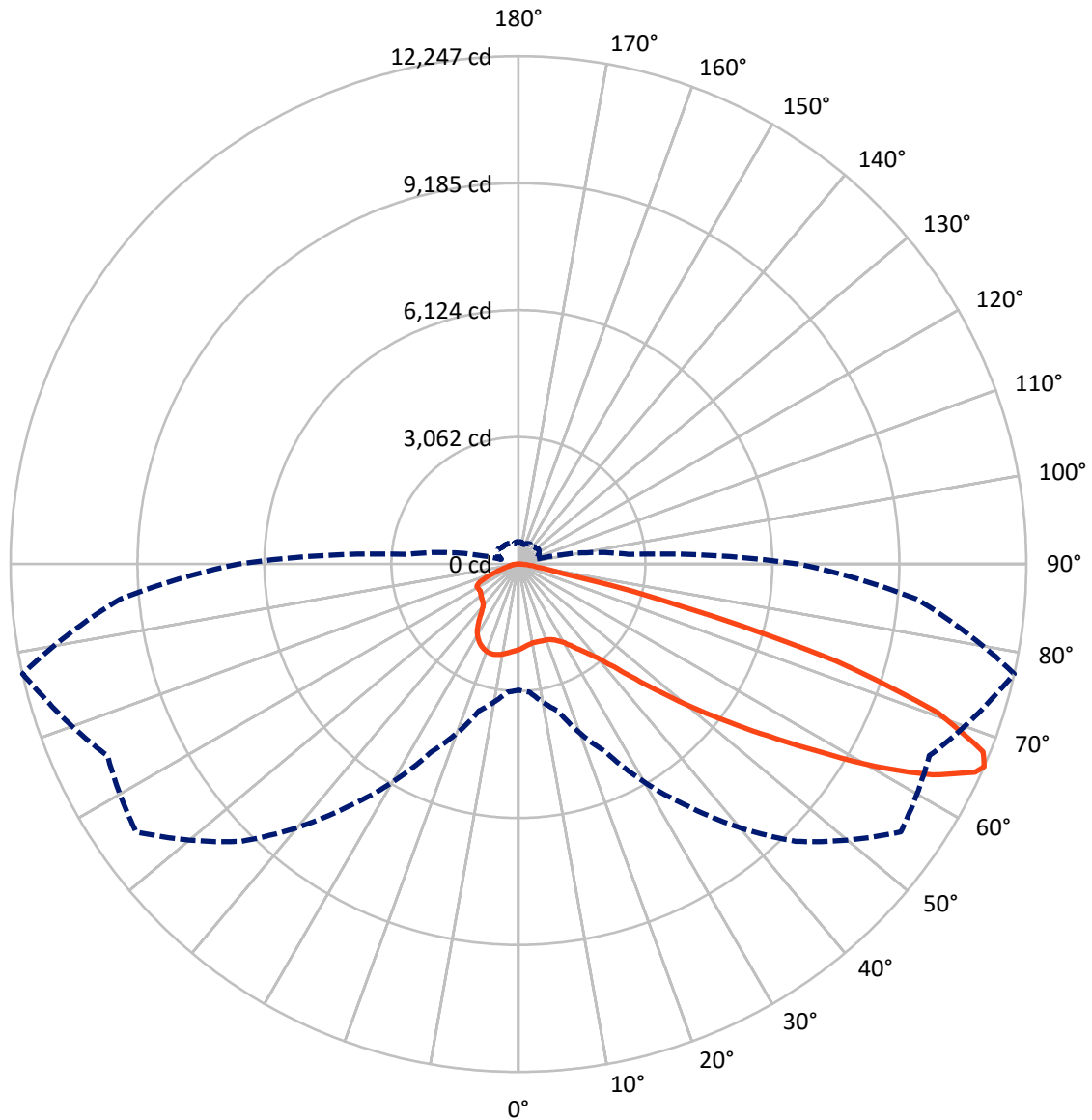
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 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
<b>House Side</b>	Lumens	2471.8	0.0	2471.8
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	11996.5	0.0	11996.5
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	14468.4	0.0	14468.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.2	1.3
10°-20°	519.7	3.6
20°-30°	886.9	6.1
30°-40°	1419.8	9.8
40°-50°	2193.4	15.2
50°-60°	3111.0	21.5
60°-70°	4161.7	28.8
70°-80°	1807.4	12.5
80°-90°	184.3	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°	14468.4	100.0
0°-180°	14468.4	100.0



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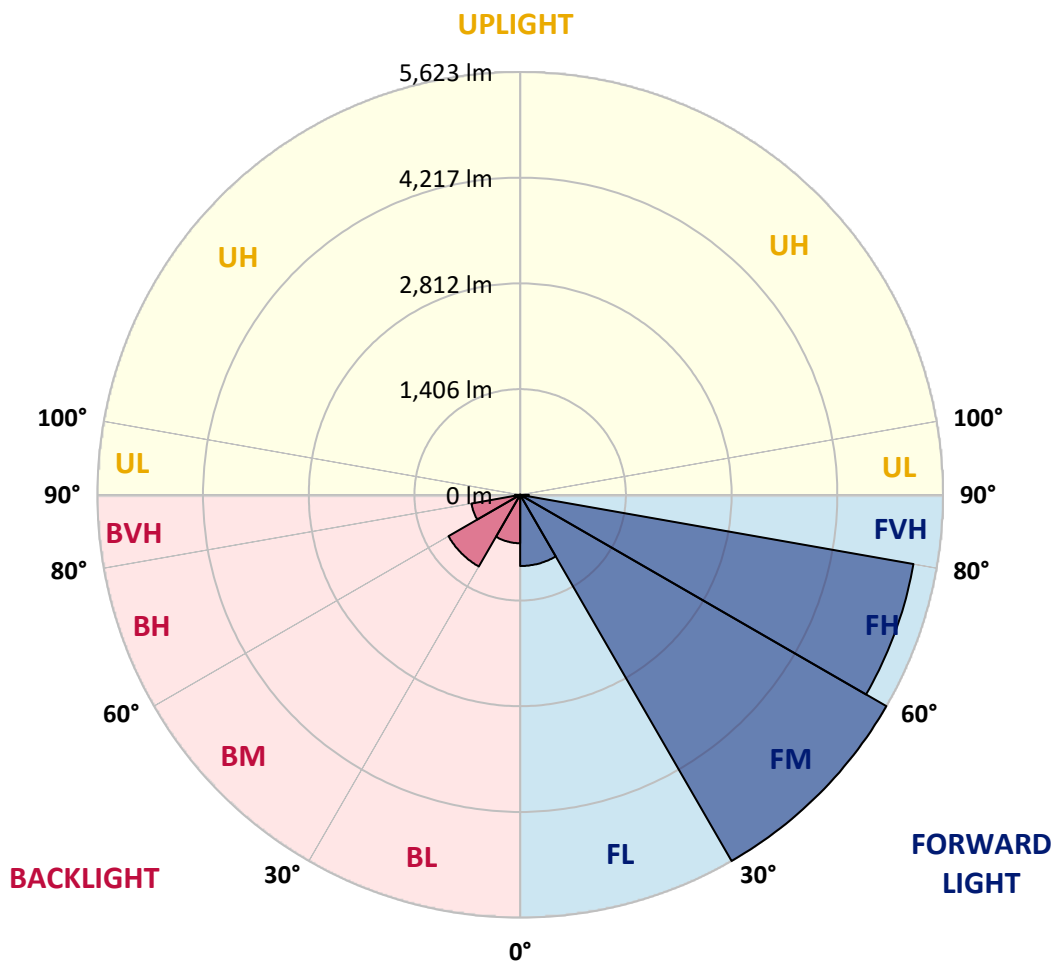
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	947.0	6.5			
FM (30°-60°)	5623.2	38.9			
FH (60°-80°)	5310.8	36.7			G3/7500
FVH (80°-90°)	115.6	0.8			G2/225
BL (0°-30°)	643.8	4.4	B2/1000		
BM (30°-60°)	1101.1	7.6	B2/2500		
BH (60°-80°)	658.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	68.7	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°	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8
2.5°	1824.0	1836.2	1846.5	1856.0	1875.1	1906.6	1942.8	1972.2	2014.6	2022.9	2045.4
5°	1656.5	1656.5	1664.6	1679.1	1704.9	1752.1	1801.4	1867.0	1959.3	1981.1	2041.3
7.5°	1575.2	1575.8	1580.5	1592.8	1615.3	1658.4	1712.4	1789.8	1914.8	1951.1	2053.5
10°	1605.2	1598.3	1588.0	1582.0	1585.3	1610.6	1661.9	1748.0	1887.5	1933.9	2081.0
12.5°	1773.3	1760.4	1724.8	1677.6	1632.5	1614.1	1644.1	1728.1	1875.9	1929.9	2117.3
15°	2048.1	2042.7	1976.3	1878.6	1769.3	1677.6	1657.1	1720.7	1877.2	1934.7	2160.3
17.5°	2392.8	2385.1	2297.8	2155.6	1977.1	1798.7	1702.9	1726.9	1881.9	1942.8	2201.9
20°	2740.7	2717.3	2623.1	2453.6	2224.5	1963.3	1778.8	1742.6	1888.1	1951.7	2245.8
22.5°	3000.5	2981.2	2896.6	2731.8	2467.9	2154.1	1880.7	1769.9	1908.0	1977.8	2299.6
25°	3228.8	3230.0	3146.0	2986.8	2714.0	2356.5	2011.9	1843.0	1958.5	2031.0	2373.5
27.5°	3511.1	3494.8	3416.1	3258.2	2957.4	2560.8	2170.5	1943.6	2033.8	2106.9	2470.6
30°	3848.7	3837.1	3746.2	3567.2	3227.3	2780.2	2351.6	2060.3	2130.9	2206.7	2597.7
32.5°	4245.9	4240.5	4146.1	3915.8	3539.1	3038.8	2564.4	2215.0	2275.8	2354.5	2780.2
35°	4712.3	4712.9	4601.5	4324.6	3880.2	3339.5	2805.5	2413.9	2452.2	2534.1	2997.8
37.5°	4999.3	5034.1	4992.5	4710.2	4266.4	3675.9	3118.7	2677.8	2653.2	2735.9	3230.9
40°	5060.8	5103.3	5235.1	5091.7	4698.6	4046.4	3396.2	2931.3	2900.7	3001.7	3531.0
42.5°	4974.7	5033.5	5312.5	5413.5	5157.3	4503.0	3769.4	3308.1	3269.1	3405.1	3904.2
45°	4923.4	4967.3	5290.0	5581.2	5555.1	5019.2	4244.7	3781.0	3766.7	3945.2	4334.9
47.5°	4834.6	4874.3	5184.6	5620.1	5789.0	5492.2	4815.5	4359.5	4387.5	4621.4	4820.9
50°	4882.4	4898.7	5067.0	5521.0	5856.7	5838.9	5453.3	5029.4	5125.2	5417.0	5371.3
52.5°	4875.6	4918.0	5053.4	5358.3	5865.6	6052.9	6081.5	5776.6	5978.4	6313.3	5981.7
55°	3941.9	4019.7	4892.7	5317.3	5896.8	6262.6	6640.7	6564.2	6940.1	7330.4	6670.8
57.5°	3764.0	3813.3	4297.2	5403.4	6063.7	6663.3	7262.7	7431.0	8059.8	8513.1	7510.3
60°	3729.1	3789.9	4291.0	5508.7	6402.1	7316.1	8185.1	8480.4	9422.4	9918.8	8483.8
62.5°	3620.4	3686.0	4250.7	5494.9	6882.7	8219.2	9365.7	9596.1	10714.4	11197.1	9298.0
65°	3276.0	3337.5	3922.0	5274.2	7206.9	9183.2	10762.9	10618.8	11734.5	12097.3	9703.9
66°	3040.0	3100.2	3662.8	5014.5	7131.5	9456.6	11258.0	10935.3	11962.8	12247.2	9624.7
67.5°	2608.7	2655.8	3159.6	4432.6	6731.6	9533.2	11674.2	11173.1	11986.6	12087.2	9171.6
70°	1648.2	1661.9	2053.5	3059.9	5095.8	8267.7	11040.5	10582.6	10998.2	10726.0	7688.7
72.5°	715.1	710.4	985.9	1556.5	2885.0	5547.7	8930.8	8731.9	8627.4	8006.7	5382.3
75°	397.8	403.4	512.1	722.6	1172.4	2725.0	5842.2	5590.7	4720.3	4028.0	2440.6
77.5°	319.2	326.8	424.5	512.7	526.4	950.3	2733.9	2224.5	1339.2	1074.7	678.1
80°	252.3	266.0	370.5	399.3	354.8	391.6	883.2	706.2	529.9	486.0	351.5
82.5°	199.5	209.3	317.9	302.2	248.2	263.9	423.1	412.3	344.6	313.8	203.1
85°	143.6	161.2	261.2	227.7	162.7	177.8	280.9	269.3	197.5	161.2	89.6
87.5°	58.8	76.6	184.6	151.1	90.9	82.8	140.1	131.9	93.6	68.3	44.5
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°	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8	2061.8
2.5°	2059.7	2076.1	2097.4	2110.4	2117.3	2122.0	2129.5	2128.9	2130.9	2131.5	2134.2
5°	2073.4	2100.7	2131.5	2139.8	2139.8	2132.2	2124.7	2112.3	2107.5	2106.3	2107.5
7.5°	2109.0	2139.0	2165.7	2156.2	2135.7	2105.5	2066.6	2032.4	2014.0	2007.8	2006.5
10°	2154.1	2190.3	2201.3	2165.1	2104.8	2032.4	1955.2	1899.1	1867.0	1858.1	1855.4
12.5°	2208.8	2242.9	2228.0	2151.4	2039.9	1923.1	1816.3	1726.9	1659.8	1638.7	1637.3
15°	2269.0	2295.7	2242.9	2109.0	1942.8	1770.6	1580.5	1426.1	1342.7	1316.0	1314.0
17.5°	2325.1	2338.7	2234.0	2035.1	1800.0	1521.1	1268.8	1149.8	1121.2	1128.1	1129.3
20°	2372.9	2372.9	2204.0	1929.1	1575.2	1192.2	1032.9	1031.0	1051.5	1072.0	1076.1
22.5°	2425.5	2394.0	2151.4	1779.5	1256.4	975.5	952.3	971.4	994.6	1017.1	1020.7
25°	2490.5	2411.2	2078.1	1552.6	987.7	885.9	894.8	910.5	922.1	936.6	938.7
27.5°	2562.9	2432.9	1981.9	1240.1	857.3	830.0	836.8	842.2	840.8	846.4	847.6
30°	2649.6	2458.4	1849.8	969.3	803.3	782.0	769.8	765.0	765.0	773.9	777.2
32.5°	2766.0	2495.8	1660.4	830.6	777.2	747.8	708.3	690.5	697.3	727.4	734.2
35°	2893.9	2536.2	1404.2	783.4	771.9	732.1	670.6	637.7	638.6	666.5	675.4
37.5°	3033.2	2587.5	1123.1	774.5	784.1	732.9	650.8	605.6	587.2	587.2	590.7
40°	3211.6	2640.1	909.3	780.8	810.1	741.0	640.6	580.4	528.4	529.9	532.6
42.5°	3444.0	2685.2	794.4	793.6	841.6	752.0	639.8	546.9	501.7	532.6	560.5
45°	3702.6	2707.8	743.7	805.4	866.9	758.8	629.0	541.5	505.3	596.7	650.1
47.5°	3999.8	2694.8	715.8	809.3	873.1	758.8	616.6	554.5	529.1	691.1	753.4
50°	4326.0	2657.3	688.4	801.2	871.0	757.4	628.2	567.4	538.0	707.5	750.5
52.5°	4709.6	2625.8	659.7	783.4	856.5	749.9	641.9	562.0	510.0	643.3	673.3
55°	5146.9	2634.7	627.6	758.2	833.9	735.6	637.1	540.0	480.6	566.7	585.2
57.5°	5706.2	2740.7	589.3	726.1	803.3	711.6	620.1	529.9	471.7	514.2	525.1
60°	6330.3	2925.1	541.5	693.8	765.0	673.3	607.1	534.6	475.9	510.0	515.4
62.5°	6788.3	3032.6	500.5	646.6	713.1	630.9	590.7	540.6	486.8	524.3	523.1
65°	6912.7	2856.2	449.2	577.7	642.7	586.6	570.0	547.5	491.6	535.9	529.9
66°	6738.4	2666.2	426.6	545.6	607.1	564.7	559.9	546.9	489.5	537.3	527.0
67.5°	6315.4	2276.4	387.7	498.4	550.4	532.0	543.5	540.6	483.9	535.9	521.6
70°	5150.4	1553.2	331.6	415.0	458.1	468.2	512.1	518.9	466.1	512.1	480.6
72.5°	3598.7	946.1	293.3	322.1	370.5	399.3	469.0	488.7	442.3	447.1	417.1
75°	1739.1	502.6	266.0	249.6	287.7	333.7	417.1	447.7	404.7	374.0	363.1
77.5°	542.1	307.0	225.6	201.0	225.6	269.3	348.6	392.4	360.4	313.2	309.0
80°	291.2	225.6	173.7	161.2	178.4	211.3	274.1	327.5	309.7	280.9	250.9
82.5°	192.1	146.3	128.5	125.0	136.0	161.2	203.7	271.4	271.4	240.7	175.1
85°	99.1	89.6	88.2	88.2	95.0	107.4	138.7	209.3	222.9	127.1	105.4
87.5°	49.3	51.3	47.8	49.9	53.4	52.6	66.2	105.4	125.8	77.2	64.2
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)