

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: P299108

Luminaire Tested: **GLNA-AF-03-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17520.8 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

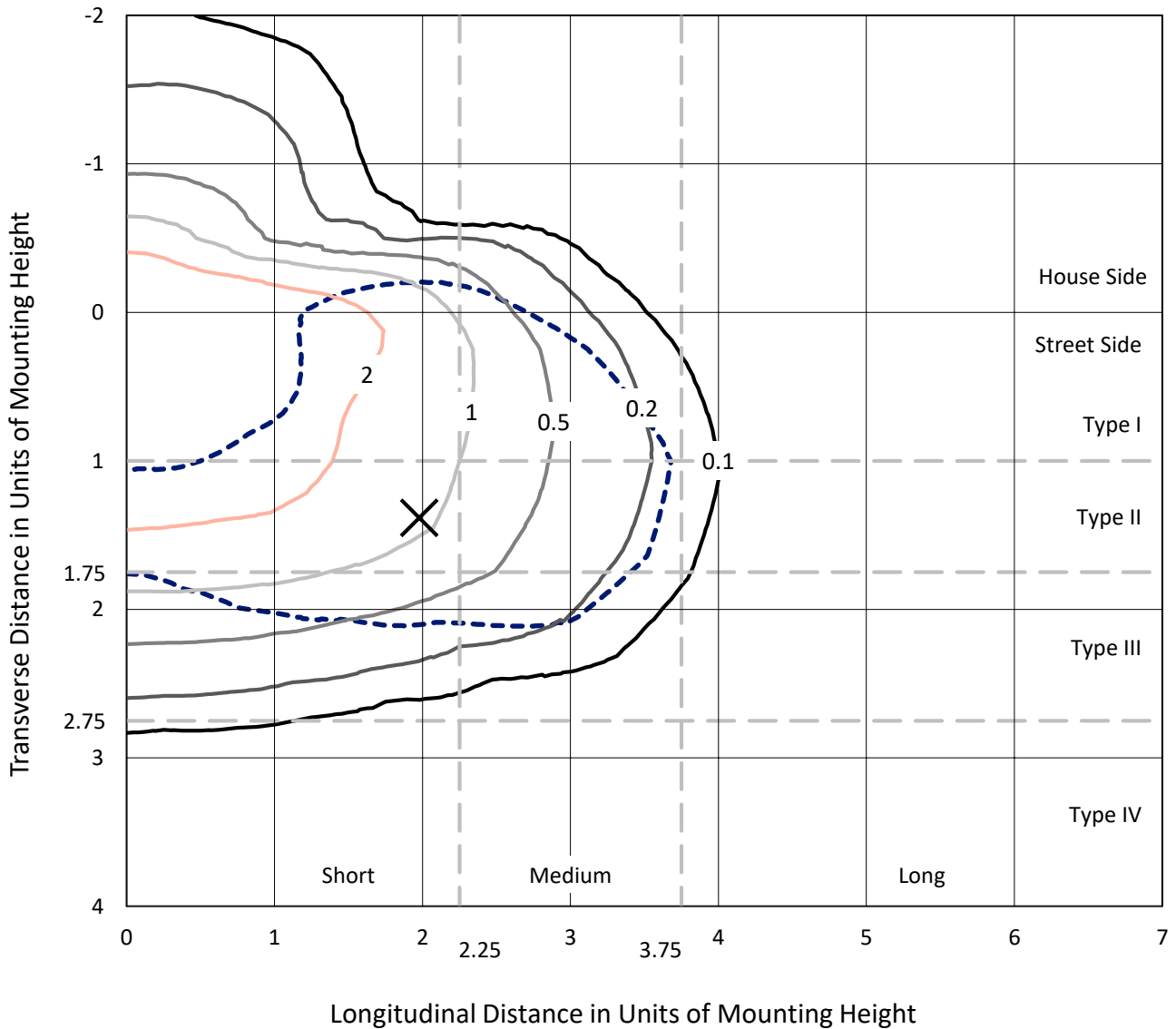
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

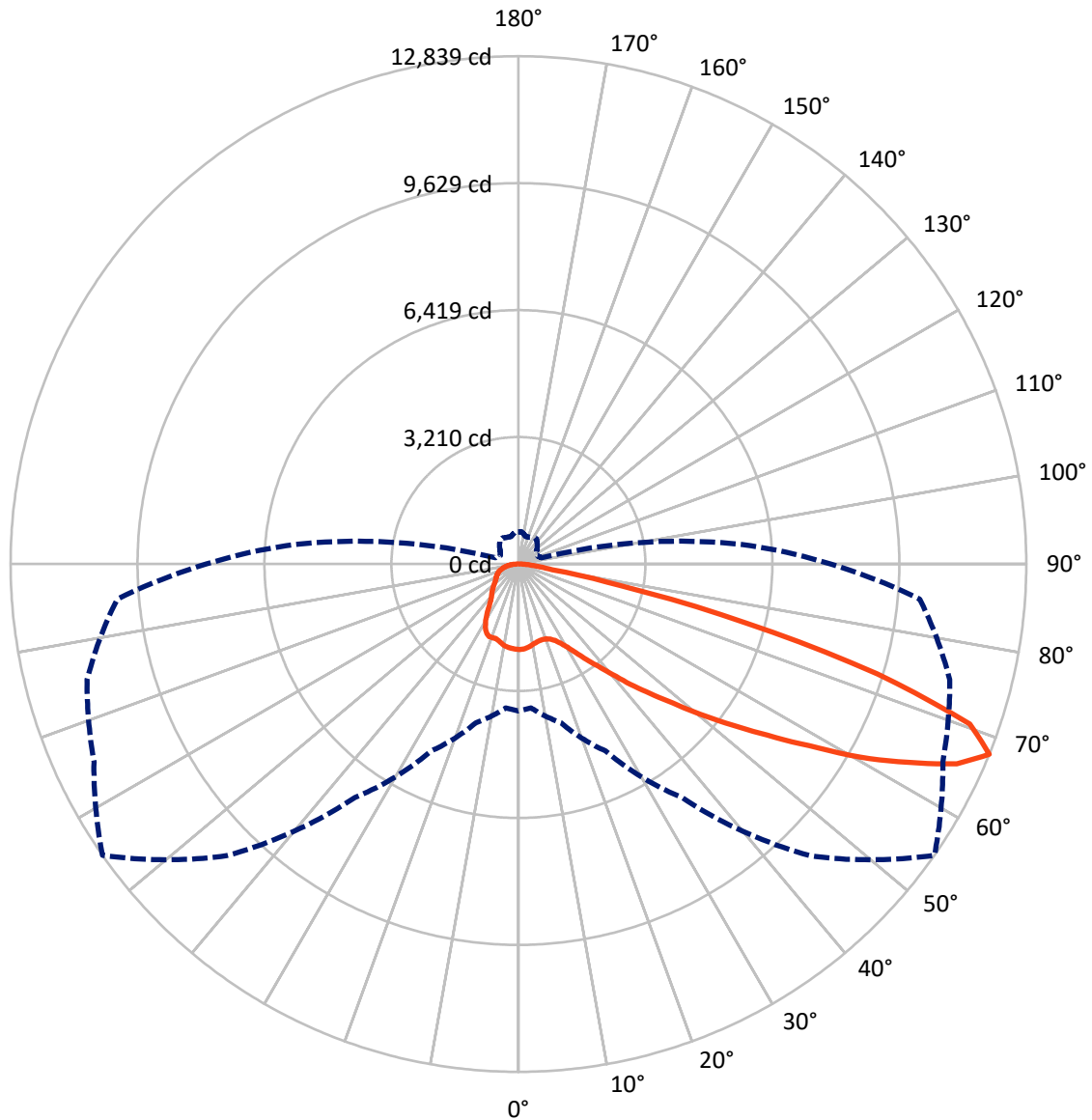
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3784.9	0.0	3784.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	13736.0	0.0	13736.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	17520.8	0.0	17520.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.7	1.2
10°-20°	571.1	3.3
20°-30°	956.7	5.5
30°-40°	1573.3	9.0
40°-50°	2648.3	15.1
50°-60°	4168.2	23.8
60°-70°	4974.3	28.4
70°-80°	2136.1	12.2
80°-90°	291.2	1.7
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°	17520.8	100.0
0°-180°	17520.8	100.0



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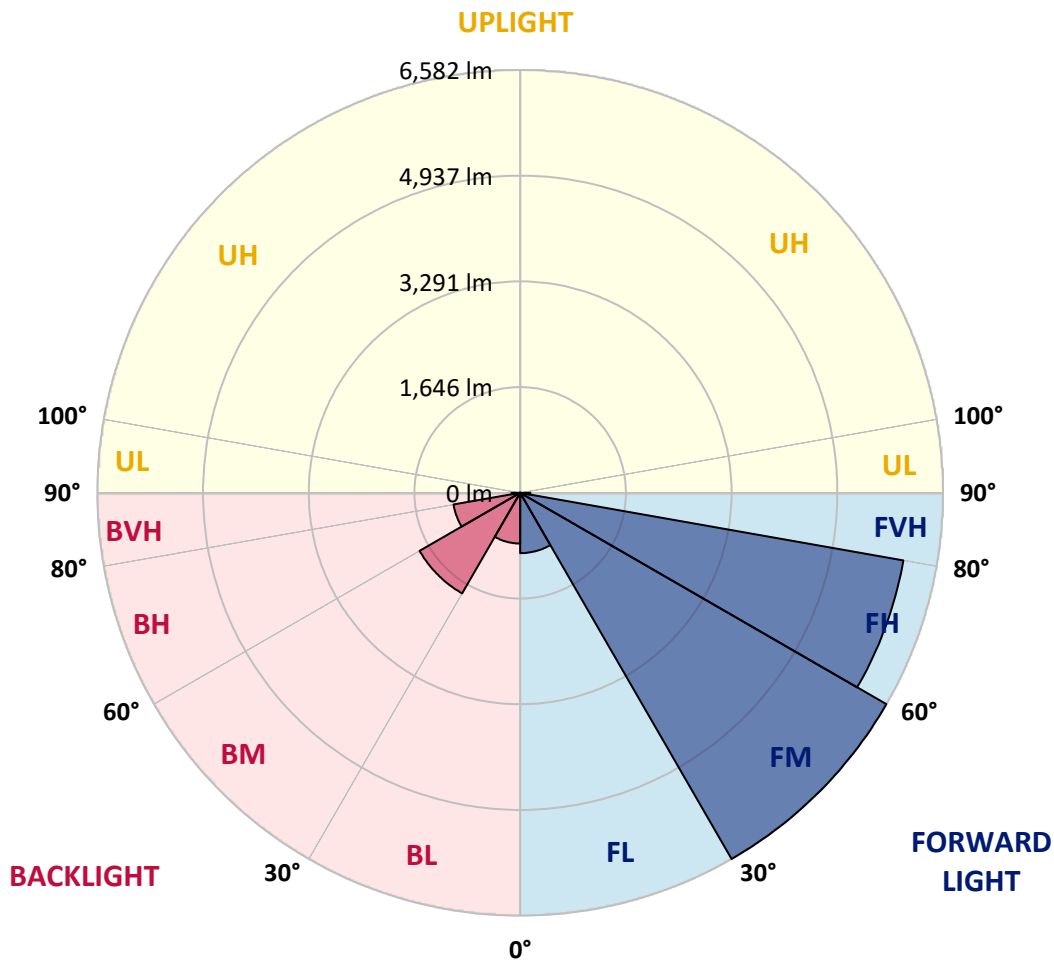
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	939.2	5.4			
FM	(30°-60°)	6582.1	37.6			
FH	(60°-80°)	6057.0	34.6			G3/7500
FVH	(80°-90°)	157.7	0.9			G2/225
BL	(0°-30°)	790.4	4.5	B2/1000		
BM	(30°-60°)	1807.6	10.3	B2/2500		
BH	(60°-80°)	1053.3	6.0	B3/2500		G3/2500
BVH	(80°-90°)	133.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5
2.5°	2141.9	2142.7	2144.4	2151.2	2157.1	2155.4	2156.3	2152.9	2152.0	2147.0	2152.0
5°	2114.8	2117.3	2118.2	2129.2	2136.0	2137.7	2135.1	2130.9	2125.8	2120.7	2123.3
7.5°	2053.0	2059.8	2060.6	2075.9	2086.9	2101.3	2102.1	2103.0	2100.4	2097.0	2102.1
10°	2014.1	2015.8	2015.0	2026.0	2034.4	2050.5	2059.8	2075.9	2082.7	2084.3	2087.7
12.5°	2011.6	2009.9	2007.3	2007.3	2004.8	2011.6	2028.5	2051.3	2067.4	2072.5	2076.7
15°	2038.6	2037.8	2029.3	2016.6	2000.6	1995.5	2009.9	2035.3	2056.4	2067.4	2071.7
17.5°	2099.6	2094.5	2081.0	2052.2	2017.5	2003.9	2005.6	2026.8	2051.3	2065.7	2070.0
20°	2211.3	2211.3	2182.5	2128.4	2066.6	2034.4	2019.2	2031.9	2055.6	2075.0	2081.0
22.5°	2404.2	2405.9	2357.7	2268.8	2164.7	2096.2	2058.1	2055.6	2083.5	2105.5	2112.3
25°	2677.6	2670.8	2603.1	2476.2	2317.9	2204.5	2138.5	2123.3	2147.0	2171.5	2180.0
27.5°	2995.8	2971.2	2890.8	2737.7	2532.9	2367.0	2265.4	2240.9	2263.8	2291.7	2300.1
30°	3310.6	3285.2	3189.6	3022.0	2794.4	2584.5	2438.9	2399.2	2431.3	2471.1	2476.2
32.5°	3625.4	3625.4	3518.8	3323.3	3075.3	2844.3	2670.0	2622.6	2675.9	2724.1	2735.1
35°	4002.0	4003.7	3900.4	3665.2	3398.6	3154.0	2961.9	2927.2	3007.6	3041.5	3067.7
37.5°	4464.9	4474.2	4341.3	4057.0	3765.0	3507.8	3279.3	3231.9	3312.3	3404.5	3489.1
40°	4965.0	4976.9	4830.5	4480.1	4188.2	3919.0	3671.9	3586.5	3720.2	3896.2	4005.4
42.5°	5442.3	5503.2	5361.9	5001.4	4687.4	4409.0	4158.5	4034.1	4201.7	4467.4	4562.2
45°	6132.0	6176.0	5929.8	5603.1	5307.8	4996.3	4664.6	4533.4	4767.8	5103.0	5122.4
47.5°	6591.5	6558.5	6433.3	6230.2	6043.2	5752.0	5252.8	5108.9	5420.3	5814.7	5705.5
50°	6836.1	6846.3	6829.3	6841.2	6848.0	6665.2	5973.8	5776.6	6148.1	6624.5	6373.2
52.5°	7064.6	6996.9	7052.8	7330.3	7665.4	7597.7	6758.3	6552.6	6928.4	7523.3	7079.0
55°	7059.5	6956.3	7138.2	7628.2	8355.1	8433.0	7639.2	7402.3	7753.5	8487.2	7827.1
57.5°	6809.9	6815.0	7095.1	7736.5	8835.8	9218.3	8661.5	8306.1	8628.5	9463.8	8510.0
60°	6466.3	6512.8	6916.5	7718.8	9220.9	9862.3	9915.7	9280.1	9485.8	10351.5	9075.3
62.5°	5912.0	5961.1	6517.9	7534.3	9162.5	10482.7	11049.6	10385.3	10381.9	10889.7	9241.2
65°	5037.8	5023.4	5608.2	6844.6	8672.5	10941.3	12176.0	11340.8	11057.3	10898.2	8907.8
67.5°	3715.1	3650.8	4152.6	5213.0	7208.5	10427.6	12838.6	11838.4	11287.4	10181.4	7888.9
70°	1927.8	1863.5	2269.7	3044.0	4740.8	8138.5	12104.9	11581.1	10778.8	8534.6	6180.3
72.5°	824.3	813.3	978.3	1335.4	2293.4	4694.2	9491.7	10024.0	9248.8	6358.8	4249.1
75°	554.3	550.9	612.7	727.8	1031.6	1904.9	5939.9	7115.4	6766.7	3942.7	2389.8
77.5°	435.0	430.7	467.1	523.0	668.5	751.5	2636.1	3820.0	3535.7	1716.2	1046.0
80°	340.2	336.8	359.7	390.1	480.7	473.9	867.4	1519.9	1176.3	657.5	508.6
82.5°	268.3	268.3	286.9	287.7	341.0	323.3	452.8	669.4	587.3	383.4	311.4
85°	245.4	245.4	264.9	215.0	222.6	203.9	281.0	396.9	372.4	157.4	135.4
87.5°	123.6	120.2	222.6	190.4	121.0	108.3	137.1	192.1	206.5	87.2	67.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5	2160.5
2.5°	2150.4	2149.5	2151.2	2152.0	2158.8	2168.1	2172.4	2178.3	2181.7	2180.0
5°	2125.0	2126.7	2133.4	2138.5	2150.4	2165.6	2174.0	2180.8	2186.7	2184.2
7.5°	2103.8	2108.0	2118.2	2122.4	2129.2	2133.4	2132.6	2135.1	2140.2	2134.3
10°	2092.0	2097.0	2104.7	2098.7	2082.7	2059.8	2038.6	2027.6	2031.0	2026.8
12.5°	2080.1	2086.9	2081.0	2053.0	2008.2	1978.6	1962.5	1964.2	1971.8	1973.5
15°	2073.3	2075.9	2050.5	1998.0	1952.3	1948.1	1956.6	1954.9	1955.7	1955.7
17.5°	2073.3	2066.6	2019.2	1966.7	1947.2	1939.6	1913.4	1880.4	1866.0	1860.9
20°	2084.3	2066.6	2009.0	1974.3	1932.0	1866.9	1797.5	1736.5	1709.5	1701.8
22.5°	2117.3	2086.9	2037.8	1977.7	1857.5	1748.4	1638.4	1565.6	1516.5	1508.0
25°	2184.2	2150.4	2094.5	1932.9	1739.1	1583.4	1458.1	1376.9	1327.8	1321.0
27.5°	2301.0	2279.0	2125.0	1833.9	1581.7	1415.0	1299.0	1236.4	1200.0	1197.5
30°	2477.0	2466.0	2109.7	1687.4	1387.9	1251.6	1195.8	1159.4	1132.3	1131.5
32.5°	2758.0	2669.1	2059.8	1508.9	1211.0	1135.7	1112.8	1090.8	1069.7	1069.7
35°	3119.3	2833.3	1965.0	1317.6	1103.5	1071.4	1042.6	1007.9	980.0	978.3
37.5°	3544.1	2934.8	1794.9	1163.6	1052.8	1028.2	985.9	934.3	885.2	876.7
40°	3973.2	2965.3	1555.4	1068.8	1020.6	985.0	933.4	872.5	825.1	822.6
42.5°	4366.7	2906.9	1301.6	1003.7	988.4	941.0	886.9	832.7	795.5	794.6
45°	4696.8	2755.4	1088.3	941.9	954.6	901.3	853.0	809.0	780.3	774.3
47.5°	5007.3	2541.3	938.5	876.7	920.7	879.3	838.6	797.2	769.3	765.0
50°	5367.8	2310.3	833.6	813.3	891.1	871.7	850.5	807.3	760.8	755.7
52.5°	5804.5	2110.6	751.5	757.4	868.3	881.8	881.0	836.1	754.9	748.1
55°	6292.0	1888.9	689.7	711.7	859.0	900.4	888.6	863.2	759.9	749.8
57.5°	6771.8	1629.9	646.5	677.0	845.4	898.7	852.2	815.8	771.8	757.4
60°	7131.5	1282.1	613.5	646.5	815.8	870.8	812.4	764.2	769.3	758.3
62.5°	7155.1	991.0	573.8	620.3	770.9	842.9	786.2	741.3	780.3	770.1
65°	6734.6	748.9	535.7	589.0	722.7	825.1	760.8	728.6	803.1	792.1
67.5°	5670.0	602.5	503.5	556.8	674.5	787.9	737.9	716.8	823.4	803.9
70°	4093.4	513.7	472.2	517.9	631.3	745.6	717.6	695.6	768.4	737.9
72.5°	2520.2	445.1	436.7	466.3	598.3	701.6	687.2	655.9	692.2	667.7
75°	1258.4	385.9	396.9	415.5	551.8	651.6	636.4	605.1	610.2	605.1
77.5°	602.5	330.0	350.4	364.7	491.7	594.9	578.8	546.7	540.8	541.6
80°	381.7	275.9	295.3	305.5	439.2	528.9	512.8	480.7	548.4	508.6
82.5°	238.6	224.3	229.3	248.0	382.5	460.4	439.2	410.4	494.2	391.0
85°	132.0	156.6	163.3	179.4	294.5	385.0	363.9	327.5	293.7	288.6
87.5°	78.7	93.1	95.6	107.5	198.0	278.4	246.3	233.6	193.8	192.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)