

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: P298927

Luminaire Tested: **GLNA-AF-03-LED-E1-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12474.3 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

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

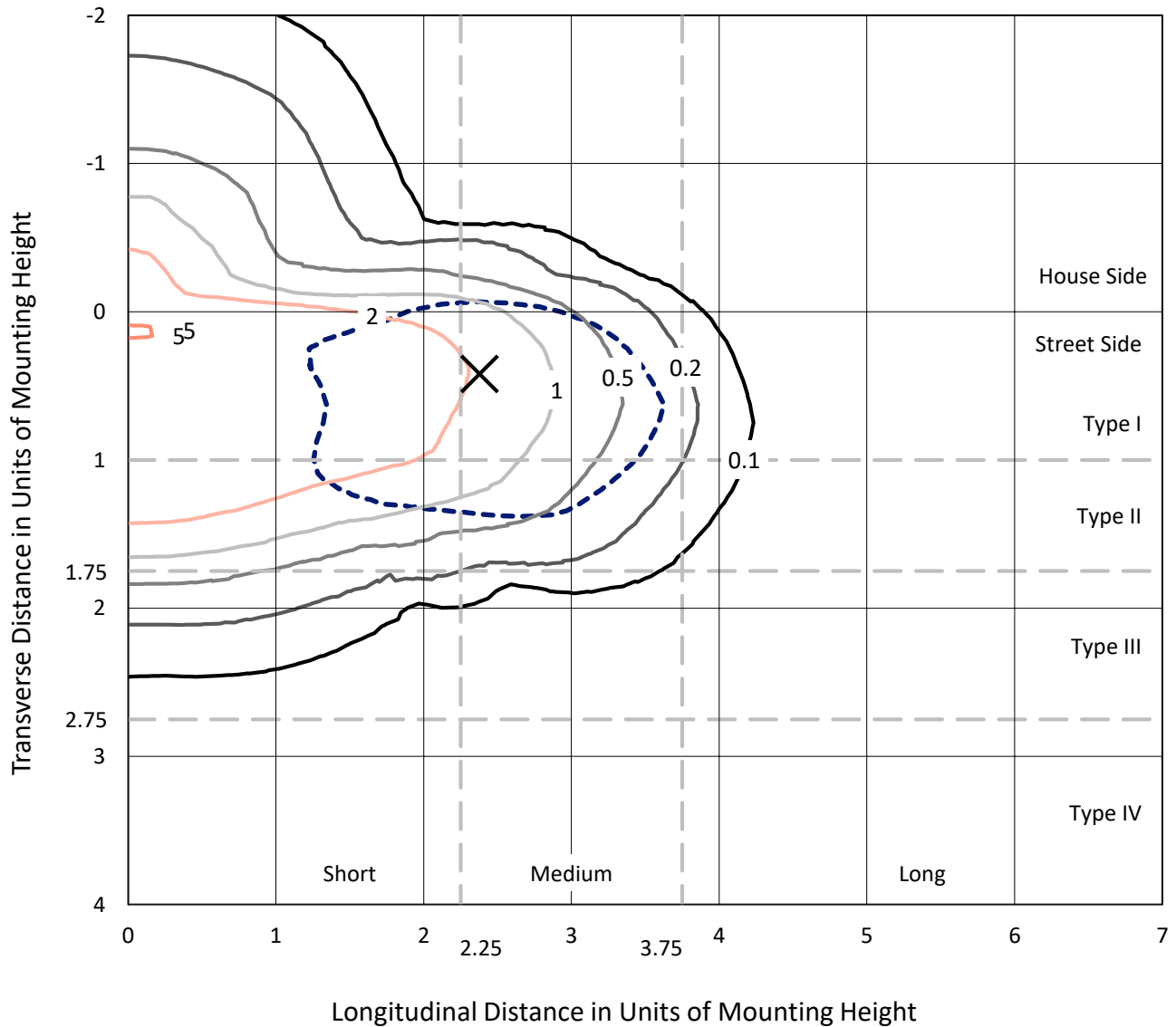


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

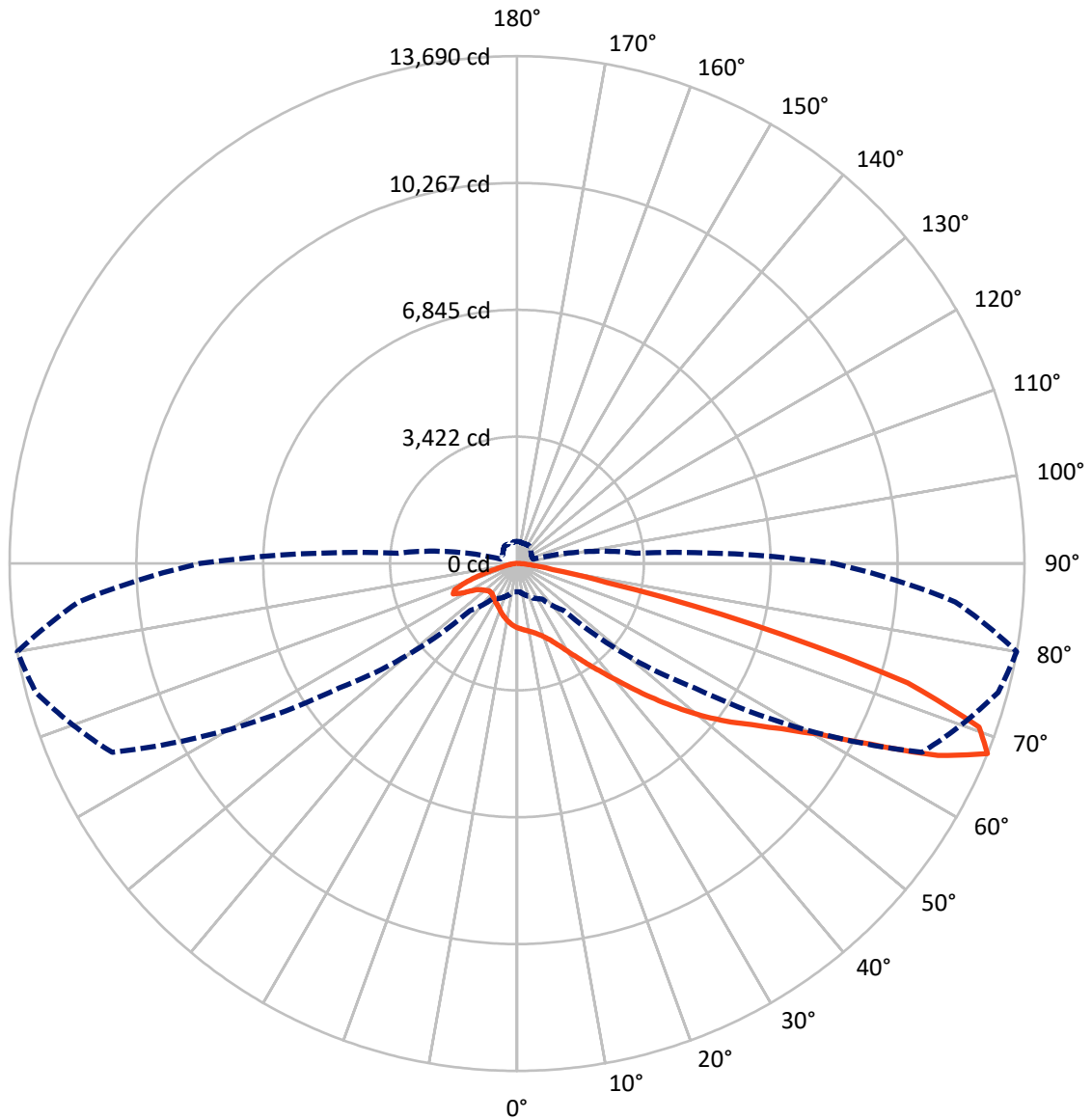


Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2297.3	0.0	2297.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	10177.0	0.0	10177.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	12474.3	0.0	12474.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	1.3
10°-20°	460.5	3.7
20°-30°	762.3	6.1
30°-40°	1246.9	10.0
40°-50°	2013.2	16.1
50°-60°	2906.5	23.3
60°-70°	3207.5	25.7
70°-80°	1478.4	11.9
80°-90°	239.1	1.9
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°	12474.3	100.0
0°-180°	12474.3	100.0



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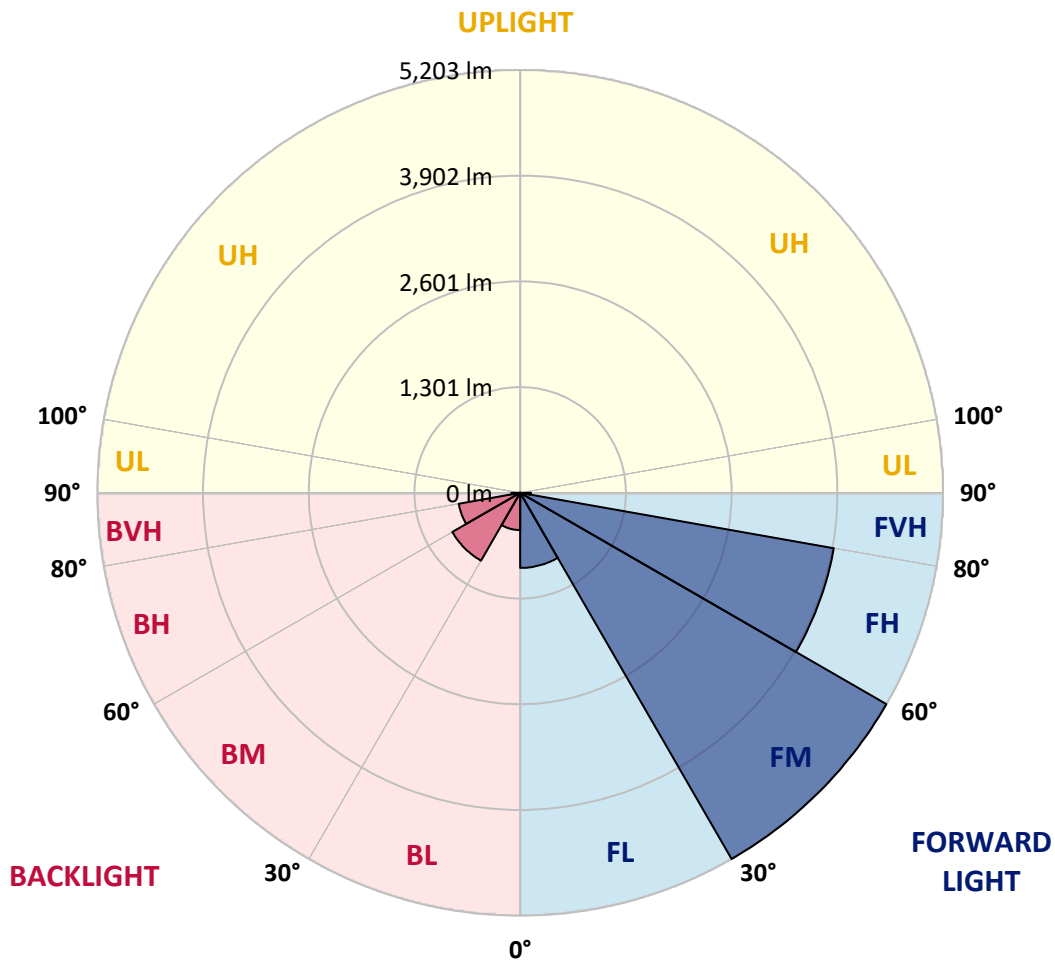
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	924.3	7.4			
FM	(30°-60°)	5202.7	41.7			
FH	(60°-80°)	3918.5	31.4			G2/5000
FVH	(80°-90°)	131.5	1.1			G2/225
BL	(0°-30°)	458.3	3.7	B1/500		
BM	(30°-60°)	963.9	7.7	B1/1000		
BH	(60°-80°)	767.4	6.2	B2/1000		G2/1000
BVH	(80°-90°)	107.7	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0
2.5°	1895.8	1884.7	1886.6	1883.5	1874.3	1858.3	1841.1	1809.8	1777.3	1760.1	1746.6
5°	2054.2	2051.2	2046.9	2037.0	2013.7	1980.5	1939.4	1884.1	1824.5	1793.2	1763.1
7.5°	2172.7	2170.9	2165.4	2159.2	2136.5	2096.6	2034.6	1956.0	1869.4	1826.4	1779.7
10°	2182.6	2185.6	2189.9	2206.5	2209.6	2188.1	2124.8	2029.7	1916.0	1860.8	1801.2
12.5°	2099.1	2105.8	2122.4	2164.8	2209.6	2236.0	2203.5	2107.0	1970.7	1903.8	1828.2
15°	1988.5	1992.2	2012.5	2070.8	2151.3	2232.9	2263.6	2192.4	2041.3	1959.0	1868.8
17.5°	1941.2	1943.1	1957.2	1995.9	2070.8	2187.5	2297.4	2285.1	2127.9	2027.8	1918.5
20°	1917.3	1921.6	1941.8	1979.9	2027.2	2129.1	2302.3	2385.2	2231.1	2113.8	1981.1
22.5°	1985.4	1983.6	1991.0	2010.0	2049.9	2111.3	2298.6	2488.4	2362.5	2224.3	2062.8
25°	2144.5	2151.3	2138.4	2116.9	2129.8	2172.7	2318.3	2600.2	2527.1	2366.2	2169.7
27.5°	2371.1	2364.4	2345.3	2295.0	2268.6	2287.0	2383.4	2720.5	2731.6	2552.9	2310.9
30°	2597.1	2591.6	2573.2	2511.7	2457.7	2442.3	2509.9	2858.7	2975.4	2777.0	2484.1
32.5°	2831.7	2825.6	2808.4	2746.9	2681.9	2646.2	2689.8	3018.4	3262.8	3044.8	2688.0
35°	3120.9	3109.3	3073.0	2987.7	2923.8	2896.2	2916.4	3219.2	3594.4	3361.7	2935.5
37.5°	3393.0	3410.8	3374.0	3256.1	3173.1	3163.3	3186.0	3464.2	3951.8	3716.0	3219.8
40°	3666.3	3669.4	3636.2	3539.8	3454.4	3438.4	3495.6	3761.5	4373.7	4139.8	3565.6
42.5°	3948.8	3954.9	3899.0	3810.0	3747.3	3750.4	3815.5	4109.7	4857.7	4639.0	3963.5
45°	4283.5	4292.7	4231.3	4114.6	4057.5	4172.3	4145.3	4500.3	5388.3	5206.5	4420.4
47.5°	4633.5	4647.6	4601.0	4491.7	4420.4	4578.2	4475.1	4933.2	5959.4	5815.1	4922.2
50°	4824.5	4844.8	4890.2	4882.2	4866.9	4840.5	4842.9	5397.5	6548.3	6448.8	5438.0
52.5°	4721.9	4721.3	4887.1	5088.6	5303.5	5319.5	5291.2	5886.9	7098.6	7068.5	5923.8
55°	4252.8	4284.7	4535.9	4925.8	5512.9	5879.6	5963.1	6447.6	7639.0	7674.0	6416.9
57.5°	3471.6	3498.0	3837.0	4380.5	5230.4	6212.4	6918.6	7262.6	8243.3	8406.7	7073.4
60°	2354.5	2386.5	2745.7	3398.5	4470.2	6026.9	7828.2	8716.8	8966.7	9338.3	7994.6
62.5°	1383.6	1412.5	1705.4	2143.9	3147.4	5165.3	8227.3	10785.7	10115.7	10744.0	9399.7
65°	952.5	972.1	1114.6	1334.5	1808.6	3479.0	7732.4	12214.2	11883.8	12485.6	11028.9
67.5°	766.4	764.0	877.0	1026.8	1164.4	1793.8	5847.0	12052.7	13438.7	13689.9	11874.6
70°	631.3	628.9	705.6	829.7	930.4	1010.2	3184.8	10171.0	13121.8	13223.8	11095.9
72.5°	528.1	530.6	579.7	671.8	763.3	760.9	1399.6	7155.1	10322.7	11027.7	8845.1
75°	445.8	447.1	479.6	544.7	619.6	612.9	759.0	3876.3	6000.5	6491.2	4903.1
77.5°	379.5	380.8	401.6	437.9	491.3	488.8	553.9	1674.7	2503.1	2472.4	1677.2
80°	338.4	338.4	348.2	355.0	384.4	373.4	410.8	804.5	1058.1	977.1	669.4
82.5°	265.3	266.5	326.7	324.3	302.8	288.6	288.6	474.1	560.7	518.3	391.8
85°	149.2	148.6	210.6	254.2	266.5	203.3	201.4	265.3	305.2	269.0	189.8
87.5°	63.9	65.1	97.6	113.0	151.1	126.5	124.7	136.9	155.4	134.5	87.8
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°	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0	1733.0
2.5°	1733.7	1717.7	1682.7	1639.1	1599.8	1574.0	1550.6	1516.9	1518.7	1495.4	1478.2
5°	1732.4	1699.3	1618.2	1521.8	1429.1	1362.1	1311.8	1266.3	1255.3	1233.8	1220.9
7.5°	1733.7	1679.6	1543.3	1389.1	1274.3	1189.5	1146.6	1122.6	1117.1	1109.7	1110.3
10°	1738.0	1661.8	1461.0	1265.1	1144.7	1088.8	1078.4	1085.8	1094.4	1096.8	1097.4
12.5°	1747.8	1645.8	1370.7	1154.5	1063.7	1046.5	1064.3	1089.4	1106.0	1114.0	1113.4
15°	1769.9	1633.6	1284.1	1068.0	1018.8	1028.0	1061.2	1096.8	1120.8	1131.8	1132.4
17.5°	1793.8	1615.7	1195.1	1001.6	985.7	1009.0	1050.1	1091.9	1121.4	1133.7	1136.1
20°	1825.2	1593.6	1101.7	951.9	954.3	980.7	1019.4	1061.2	1093.7	1104.2	1109.1
22.5°	1866.3	1569.7	1020.0	911.4	918.7	939.0	969.1	1005.3	1033.6	1038.5	1042.8
25°	1921.6	1543.9	955.0	874.5	877.6	889.2	909.5	931.0	950.7	945.1	949.4
27.5°	1995.9	1521.8	906.4	840.7	835.2	837.7	848.1	854.9	865.3	849.9	851.8
30°	2083.1	1497.8	869.0	811.2	795.9	791.6	794.1	797.7	805.7	784.8	781.8
32.5°	2184.4	1469.0	834.0	785.5	764.0	755.4	756.6	766.4	797.1	784.2	777.5
35°	2302.3	1436.4	797.1	757.2	742.5	730.2	729.0	759.7	851.2	843.2	837.0
37.5°	2440.5	1403.9	760.3	725.3	726.5	713.0	708.7	743.7	861.6	830.3	826.0
40°	2616.1	1386.7	729.0	691.5	706.8	705.0	696.4	714.2	792.8	735.7	728.3
42.5°	2833.5	1389.1	705.6	655.3	683.5	703.2	689.7	690.3	718.5	675.5	668.8
45°	3101.9	1418.0	689.0	626.4	657.1	701.3	687.2	677.4	679.8	657.1	653.4
47.5°	3415.1	1477.6	677.4	602.4	631.9	694.6	686.6	673.7	668.2	655.9	652.8
50°	3763.3	1564.2	668.8	579.7	609.2	683.5	687.2	670.0	663.9	658.9	657.1
52.5°	4105.4	1663.0	655.9	560.1	591.4	670.0	689.0	666.3	659.6	655.9	654.0
55°	4486.7	1786.5	636.2	543.5	576.7	652.8	689.0	660.8	653.4	654.0	653.4
57.5°	5002.0	1986.1	612.9	529.4	558.8	631.9	677.4	654.6	645.4	646.1	646.7
60°	5807.1	2337.9	584.6	515.2	536.7	607.4	661.4	641.1	631.9	634.4	635.0
62.5°	6991.1	2854.4	547.8	494.4	513.4	581.0	639.3	623.9	614.7	620.9	620.9
65°	8221.8	3310.1	502.3	468.0	488.8	552.1	611.7	602.4	593.2	607.4	606.7
67.5°	8552.8	3208.1	456.9	439.1	464.3	520.2	578.5	573.6	568.7	593.2	592.0
70°	7597.9	2575.6	415.1	409.6	437.3	485.8	542.9	542.9	539.8	558.2	553.9
72.5°	5788.7	1826.4	375.2	378.3	406.5	448.3	504.2	508.5	503.6	512.8	509.1
75°	3098.8	1045.2	335.3	343.9	368.5	410.2	461.2	465.5	462.4	461.8	463.7
77.5°	1029.9	510.9	293.5	307.1	328.6	370.9	416.4	423.1	415.8	414.5	413.9
80°	458.7	321.2	247.5	265.3	284.3	326.1	369.1	374.6	366.6	377.7	363.6
82.5°	294.8	211.3	198.4	218.0	236.4	281.3	321.8	323.0	315.7	366.6	312.6
85°	143.1	130.8	149.2	167.0	183.0	221.1	266.5	267.1	248.7	226.6	218.6
87.5°	71.2	76.2	99.5	115.5	123.4	151.7	194.1	190.4	182.4	165.8	152.9
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)