

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: P453458

Luminaire Tested: **GALN-SA4C-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23704 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

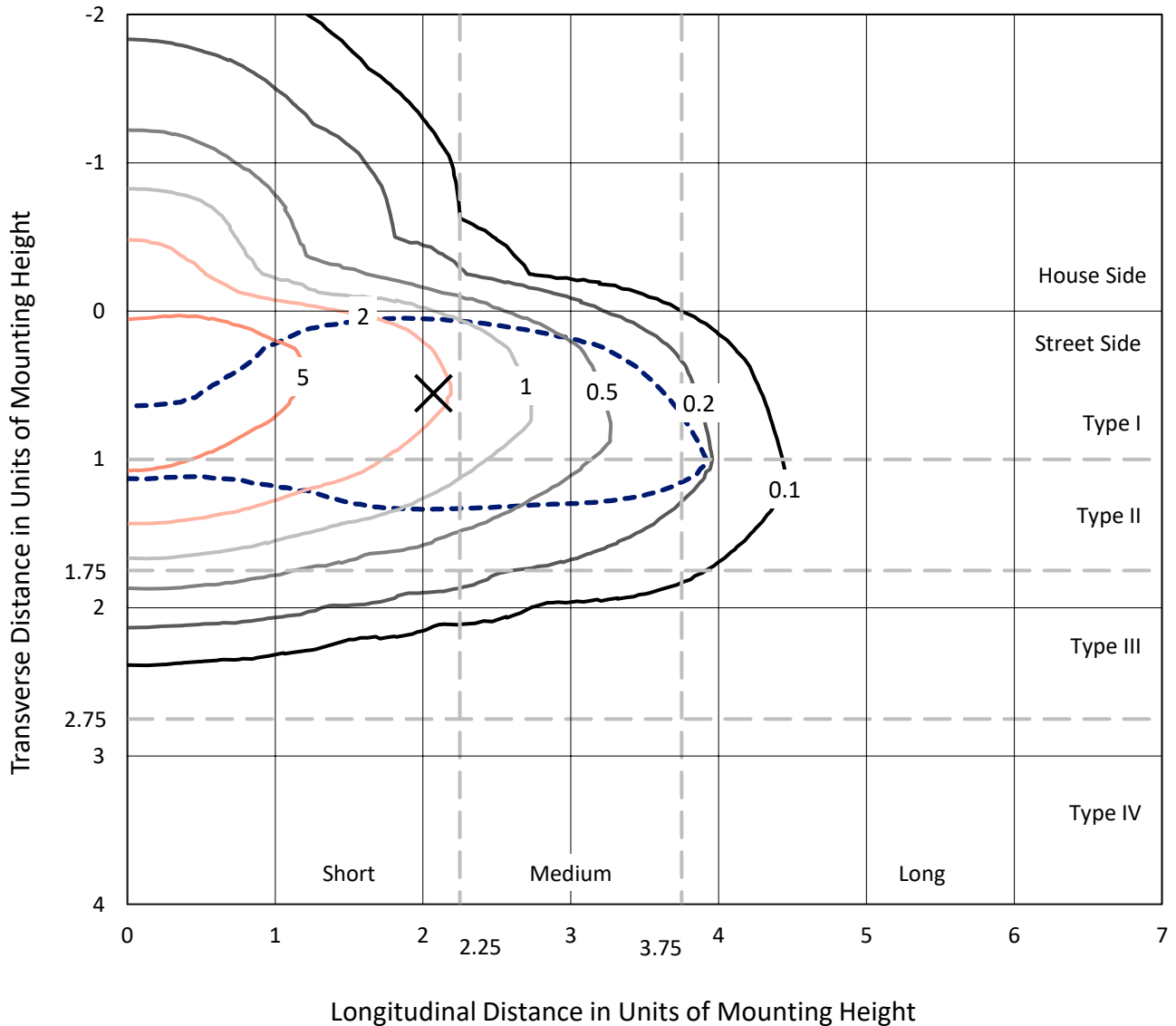
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

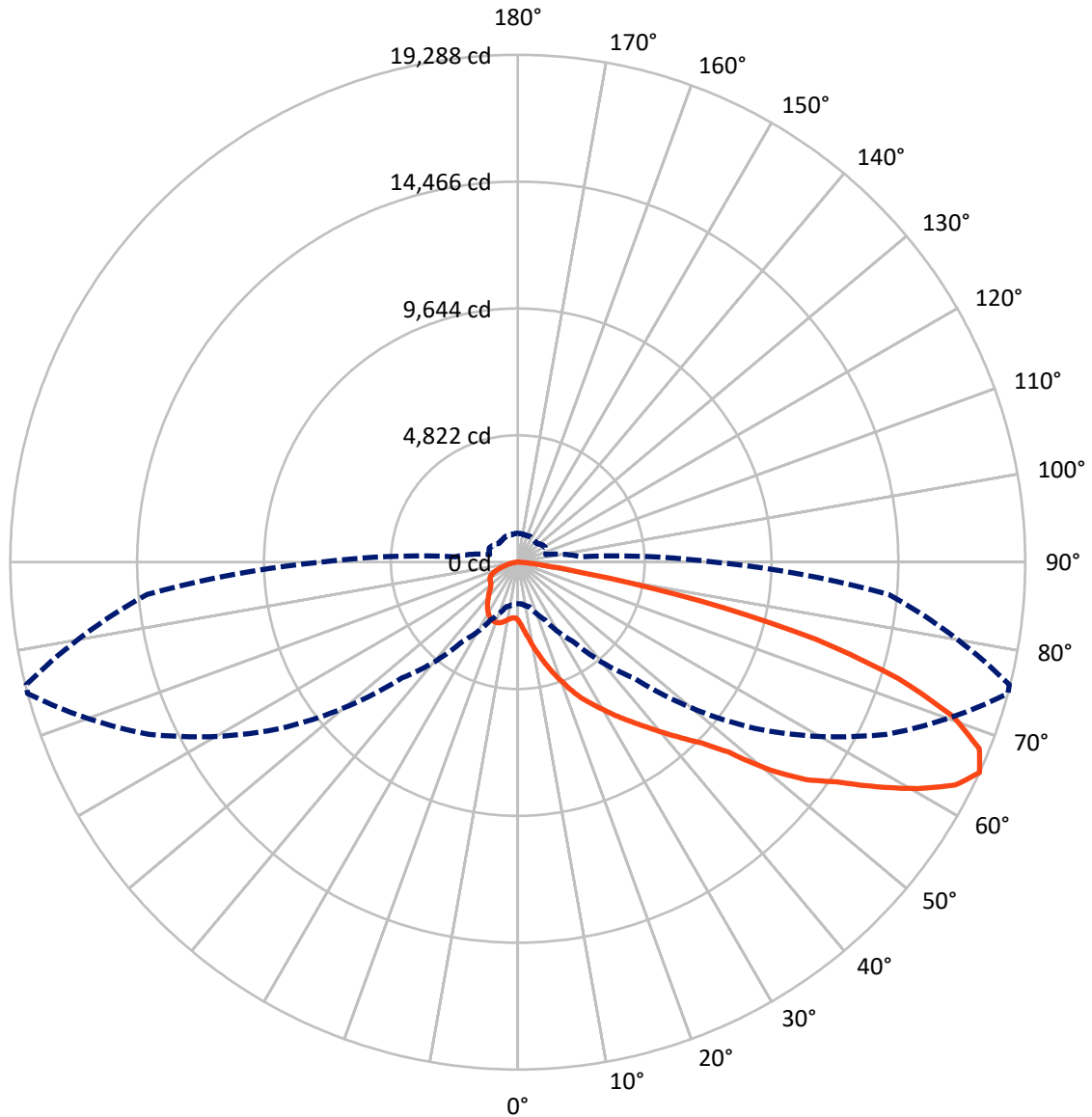
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3985.0	0.0	3985.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	19719.1	0.0	19719.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	23704.0	0.0	23704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	1.1
10°-20°	1048.1	4.4
20°-30°	2024.6	8.5
30°-40°	3288.5	13.9
40°-50°	4523.6	19.1
50°-60°	5340.9	22.5
60°-70°	4679.5	19.7
70°-80°	2234.0	9.4
80°-90°	297.3	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°	23704.0	100.0
0°-180°	23704.0	100.0

Coefficient of Utilization



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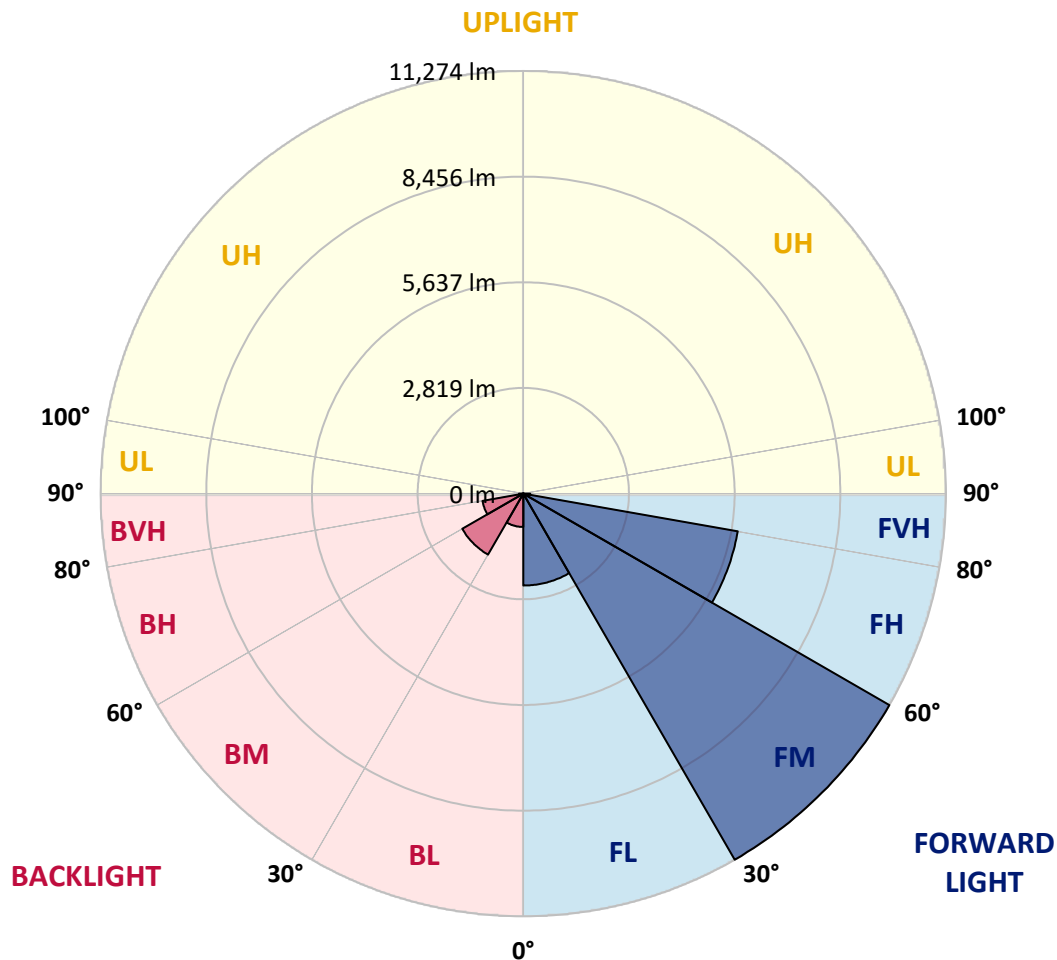
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2450.6	10.3			
FM	(30°-60°)	11274.1	47.6			
FH	(60°-80°)	5808.5	24.5			G3/7500
FVH	(80°-90°)	185.8	0.8			G2/225
BL	(0°-30°)	889.6	3.8	B2/1000		
BM	(30°-60°)	1878.9	7.9	B2/2500		
BH	(60°-80°)	1104.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	111.5	0.5			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4
2.5°	2926.2	2907.0	2886.4	2829.8	2769.4	2701.3	2603.5	2509.7	2385.0	2381.1	2288.5
5°	3737.5	3724.7	3633.4	3580.7	3440.5	3254.1	3096.0	2850.4	2622.8	2595.8	2415.8
7.5°	4483.2	4433.1	4398.4	4303.2	4164.4	3925.2	3619.2	3287.5	2907.0	2871.0	2572.7
10°	5045.1	5039.9	5021.9	4939.7	4835.5	4597.7	4258.2	3782.5	3267.0	3196.2	2763.0
12.5°	5465.5	5469.4	5466.8	5465.5	5390.9	5189.1	4821.4	4319.9	3630.8	3580.7	2982.8
15°	5741.9	5780.5	5795.9	5860.2	5866.6	5731.6	5415.4	4839.4	4040.9	3966.4	3219.4
17.5°	5924.5	5943.8	6015.8	6125.1	6213.8	6189.4	5907.8	5320.2	4460.1	4335.4	3465.0
20°	6099.4	6132.8	6188.1	6337.2	6494.1	6566.1	6368.1	5812.6	4875.4	4795.7	3736.2
22.5°	6463.2	6510.8	6530.1	6605.9	6739.6	6866.9	6776.9	6284.5	5330.5	5222.5	4024.2
25°	7079.1	7129.2	7075.2	7057.2	7100.9	7163.9	7144.6	6729.3	5759.9	5605.6	4296.8
27.5°	7881.3	7887.8	7782.3	7682.0	7574.0	7541.9	7482.8	7124.1	6132.8	6004.2	4570.7
30°	8742.7	8711.9	8537.0	8355.8	8173.2	7993.2	7823.5	7504.6	6548.1	6400.2	4839.4
32.5°	9542.5	9525.7	9331.6	9050.0	8741.5	8571.7	8228.5	7889.0	6992.9	6850.2	5115.8
35°	10141.6	10166.0	9952.6	9645.3	9308.5	9158.0	8724.7	8292.8	7453.2	7297.6	5416.6
37.5°	10567.2	10554.3	10365.3	10099.2	9803.4	9672.3	9304.6	8733.7	7948.2	7799.0	5745.8
40°	10718.9	10711.2	10571.0	10376.9	10189.2	10142.9	9911.4	9209.5	8515.2	8340.3	6141.8
42.5°	10622.4	10639.2	10546.6	10493.9	10459.2	10492.6	10514.4	9833.0	9133.6	8972.9	6571.2
45°	10326.7	10317.7	10304.9	10391.0	10586.4	10806.3	11111.0	10421.9	9806.0	9677.5	7147.2
47.5°	9798.3	9862.6	9894.7	10132.6	10559.4	11080.1	11797.6	11211.3	10781.9	10670.0	8025.3
50°	9059.0	9110.5	9300.7	9723.7	10360.2	11183.0	12468.7	12502.1	12409.6	12200.0	8979.3
52.5°	7904.5	7984.2	8376.3	9151.6	9951.3	11140.6	12875.0	13609.1	13731.3	13574.4	9919.2
55°	6612.3	6724.2	7138.2	8155.2	9388.2	10909.1	13155.3	14250.7	14738.0	14592.7	10824.3
57.5°	5347.2	5465.5	5891.1	6875.9	8405.9	10397.4	13339.1	14965.5	16108.5	15919.5	11950.6
60°	4007.5	4130.9	4496.1	5510.5	7007.1	9397.2	13214.4	15585.2	17477.8	17396.8	13078.1
62.5°	2585.5	2721.8	3039.4	3879.0	5385.8	8030.5	12547.1	15927.2	18663.2	18565.5	13901.0
65°	1575.0	1590.4	1765.3	2408.1	3686.1	6217.6	11021.0	15473.4	19288.0	19258.5	14151.7
67.5°	1018.3	1042.7	1122.4	1442.6	2210.1	4318.7	8812.2	13975.5	18922.9	18912.6	13633.5
70°	860.1	867.8	903.8	973.3	1284.4	2619.0	6188.1	11588.0	17535.6	17535.6	12387.7
72.5°	768.8	779.1	792.0	813.8	916.7	1483.7	3692.5	9020.5	15140.4	15240.7	10544.0
75°	698.1	695.6	703.3	707.1	781.7	969.4	1909.3	6671.5	11712.7	11512.1	7635.8
77.5°	597.8	601.7	597.8	614.6	690.4	738.0	969.4	4476.8	7098.3	6838.6	3832.7
80°	491.1	497.6	504.0	514.3	590.1	560.6	582.4	2040.4	2625.4	2570.1	1184.1
82.5°	369.0	378.0	388.3	412.7	464.1	370.3	367.7	871.7	947.6	867.8	435.9
85°	149.1	176.1	266.1	290.6	291.9	203.1	226.3	363.9	387.0	378.0	171.0
87.5°	34.7	41.1	86.1	129.9	119.6	75.9	83.6	118.3	135.0	124.7	57.9
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°	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4
2.5°	2246.1	2201.1	2124.0	2064.8	2022.4	1985.1	1962.0	1947.8	1942.7	1941.4	1942.7
5°	2322.0	2242.3	2120.1	2043.0	2000.5	1976.1	1962.0	1960.7	1962.0	1963.3	1959.4
7.5°	2426.1	2311.7	2152.3	2080.3	2048.1	2030.1	2023.7	2021.1	2022.4	2021.1	2021.1
10°	2565.0	2408.1	2215.3	2140.7	2113.7	2093.1	2082.8	2076.4	2071.3	2066.1	2063.5
12.5°	2718.0	2514.8	2283.4	2211.4	2172.8	2140.7	2117.5	2100.8	2089.3	2077.7	2075.1
15°	2889.0	2628.0	2359.3	2259.0	2203.7	2156.1	2116.3	2089.3	2068.7	2052.0	2050.7
17.5°	3052.2	2734.7	2410.7	2280.8	2199.8	2133.0	2080.3	2043.0	2017.3	1995.4	1992.8
20°	3227.1	2836.3	2433.8	2266.7	2161.3	2080.3	2010.8	1965.8	1936.3	1911.8	1908.0
22.5°	3403.2	2922.4	2431.3	2221.7	2094.4	1999.3	1926.0	1878.4	1843.7	1819.3	1810.3
25°	3571.7	2991.8	2399.1	2149.7	2001.8	1902.8	1828.3	1784.5	1753.7	1724.1	1724.1
27.5°	3723.4	3033.0	2338.7	2062.3	1906.7	1802.5	1743.4	1703.6	1675.3	1656.0	1644.4
30°	3872.5	3052.2	2256.4	1951.7	1806.4	1717.7	1670.1	1647.0	1621.3	1599.4	1596.8
32.5°	4006.2	3048.4	2153.5	1843.7	1711.3	1648.3	1629.0	1611.0	1584.0	1553.1	1545.4
35°	4136.1	3022.7	2031.4	1725.4	1631.6	1607.1	1612.3	1586.6	1537.7	1499.1	1492.7
37.5°	4277.5	2976.4	1897.7	1629.0	1564.7	1587.8	1600.7	1544.1	1464.4	1404.0	1389.8
40°	4440.8	2923.7	1758.8	1532.6	1512.0	1569.8	1569.8	1465.7	1356.4	1319.1	1308.8
42.5°	4632.4	2880.0	1643.1	1451.6	1468.3	1526.1	1519.7	1361.6	1316.6	1297.3	1292.1
45°	4935.8	2864.5	1523.6	1380.8	1432.3	1474.7	1422.0	1325.6	1299.8	1284.4	1279.3
47.5°	5415.4	2882.5	1418.1	1328.1	1391.1	1423.3	1312.7	1301.1	1283.1	1261.3	1258.7
50°	5860.2	2865.8	1343.6	1298.6	1355.1	1361.6	1267.7	1271.6	1261.3	1236.8	1231.7
52.5°	6224.1	2813.1	1296.0	1283.1	1324.3	1253.6	1225.3	1239.4	1235.6	1204.7	1199.6
55°	6623.9	2781.0	1272.8	1283.1	1303.7	1159.7	1185.4	1206.0	1200.8	1179.0	1177.7
57.5°	7108.6	2787.4	1256.1	1287.0	1283.1	1112.1	1145.6	1170.0	1168.7	1162.3	1162.3
60°	7604.9	2790.0	1230.4	1285.7	1258.7	1074.8	1104.4	1139.1	1141.7	1145.6	1145.6
62.5°	7769.5	2678.1	1180.3	1262.6	1204.7	1038.8	1065.8	1113.4	1110.8	1121.1	1122.4
65°	7462.2	2368.3	1105.7	1209.8	1135.3	1013.1	1036.3	1080.0	1065.8	1092.8	1098.0
67.5°	6792.3	1959.4	990.0	1114.7	1058.1	986.1	1017.0	1033.7	1008.0	1060.7	1062.0
70°	5870.5	1530.0	843.4	979.7	970.7	957.8	1001.6	975.8	939.8	1004.1	991.3
72.5°	4908.8	1168.7	673.7	801.0	853.7	915.4	974.6	901.3	851.1	870.4	847.3
75°	3687.4	864.0	541.3	627.4	711.0	855.0	950.1	811.3	734.1	716.1	711.0
77.5°	1879.7	564.4	405.0	469.3	533.6	772.7	916.7	705.8	608.1	579.8	567.0
80°	671.1	351.0	285.4	324.0	360.0	664.7	801.0	583.7	471.9	466.7	471.9
82.5°	311.1	226.3	191.6	212.1	213.4	443.6	610.7	435.9	358.7	545.1	460.3
85°	133.7	113.1	108.0	105.4	97.7	198.0	343.3	234.0	365.1	163.3	150.4
87.5°	39.9	45.0	39.9	29.6	21.9	21.9	34.7	12.9	9.0	6.4	6.4
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)