

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: P458881

Luminaire Tested: **GALN-SA4A-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458881
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-SA4A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17175 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

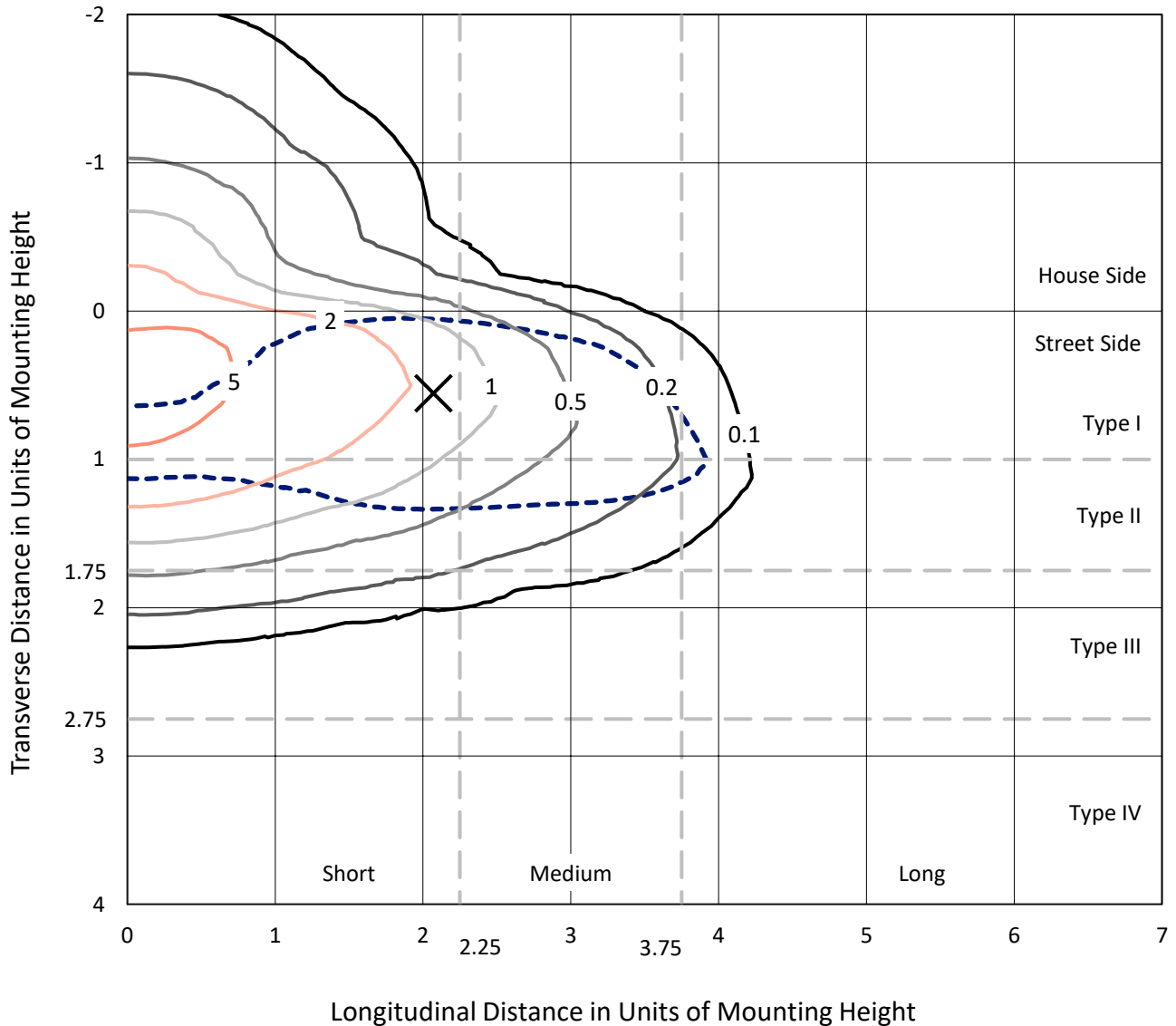
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

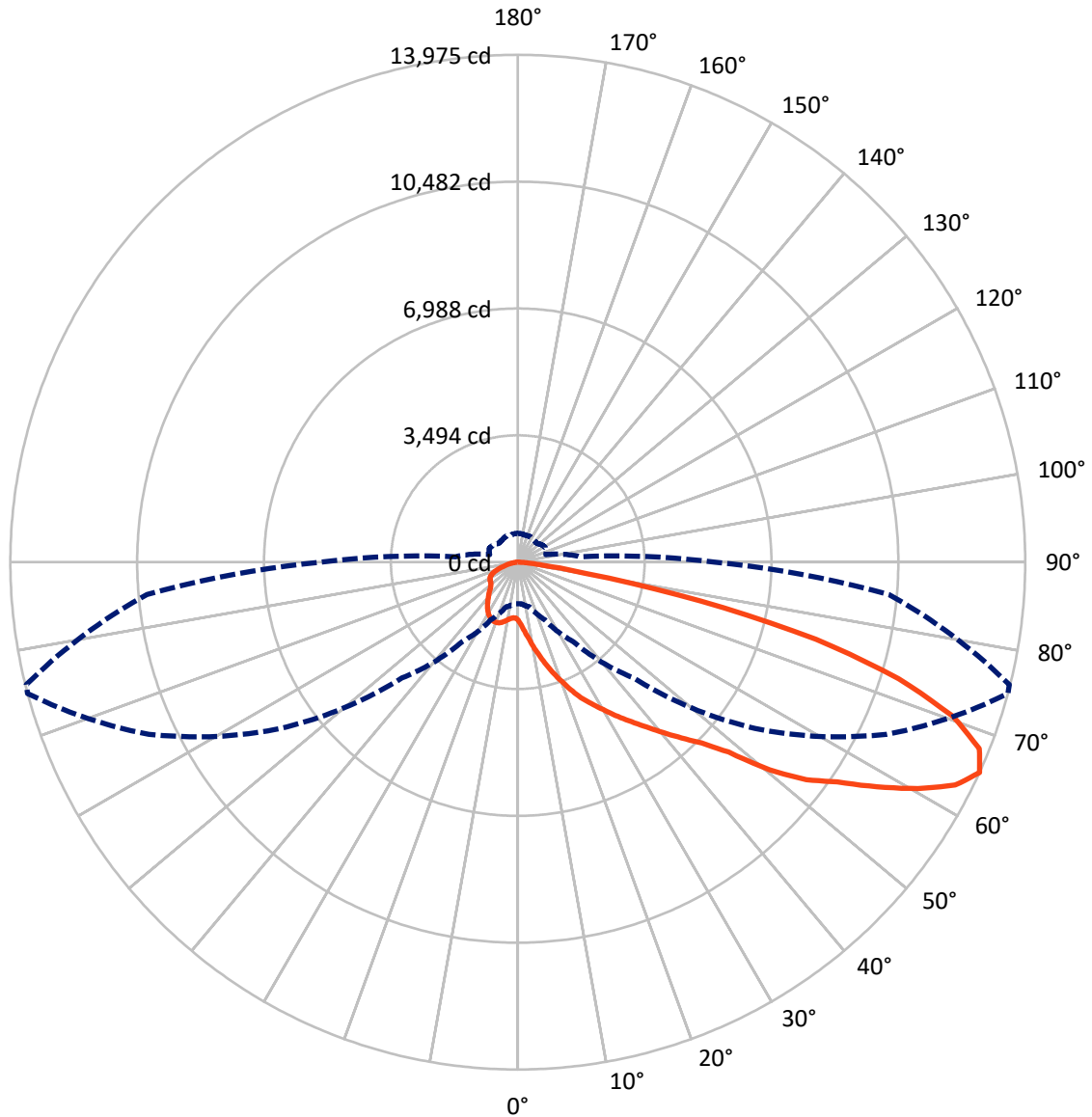
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	2887.3	0.0	2887.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	14287.7	0.0	14287.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	17175.0	0.0	17175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	1.1
10°-20°	759.4	4.4
20°-30°	1466.9	8.5
30°-40°	2382.7	13.9
40°-50°	3277.6	19.1
50°-60°	3869.8	22.5
60°-70°	3390.6	19.7
70°-80°	1618.7	9.4
80°-90°	215.4	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°	17175.0	100.0
0°-180°	17175.0	100.0

Coefficient of Utilization



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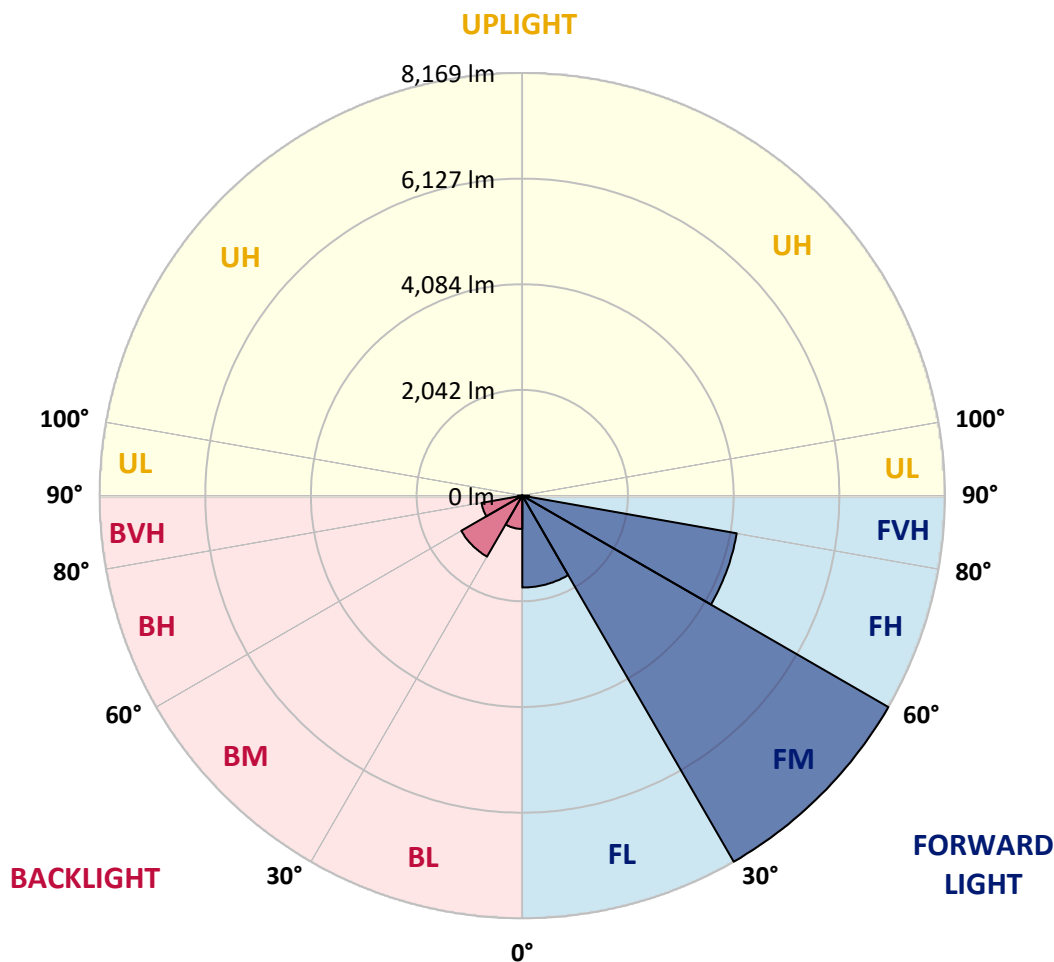
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1775.6	10.3			
FM	(30°-60°)	8168.8	47.6			
FH	(60°-80°)	4208.6	24.5			G2/5000
FVH	(80°-90°)	134.6	0.8			G2/225
BL	(0°-30°)	644.6	3.8	B2/1000		
BM	(30°-60°)	1361.4	7.9	B2/2500		
BH	(60°-80°)	800.6	4.7	B2/1000		G2/1000
BVH	(80°-90°)	80.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8
2.5°	2120.2	2106.3	2091.4	2050.4	2006.6	1957.2	1886.4	1818.4	1728.1	1725.3	1658.2
5°	2708.1	2698.7	2632.6	2594.4	2492.9	2357.8	2243.2	2065.3	1900.4	1880.8	1750.4
7.5°	3248.4	3212.0	3186.9	3118.0	3017.3	2844.1	2622.4	2382.0	2106.3	2080.2	1864.1
10°	3655.5	3651.7	3638.7	3579.1	3503.6	3331.3	3085.4	2740.7	2367.1	2315.9	2001.9
12.5°	3960.1	3962.9	3961.0	3960.1	3906.1	3759.8	3493.4	3130.1	2630.7	2594.4	2161.2
15°	4160.4	4188.3	4199.5	4246.1	4250.7	4152.9	3923.8	3506.4	2927.9	2873.9	2332.6
17.5°	4292.7	4306.6	4358.8	4438.0	4502.3	4484.6	4280.6	3854.8	3231.6	3141.2	2510.6
20°	4419.4	4443.6	4483.6	4591.7	4705.3	4757.5	4614.1	4211.6	3532.5	3474.7	2707.1
22.5°	4683.0	4717.5	4731.4	4786.4	4883.3	4975.5	4910.3	4553.5	3862.3	3784.0	2915.8
25°	5129.2	5165.5	5126.4	5113.4	5145.0	5190.7	5176.7	4875.8	4173.4	4061.6	3113.3
27.5°	5710.5	5715.2	5638.8	5566.1	5487.9	5464.6	5421.7	5161.8	4443.6	4350.4	3311.7
30°	6334.7	6312.3	6185.6	6054.3	5922.0	5791.6	5668.6	5437.6	4744.5	4637.3	3506.4
32.5°	6914.1	6902.0	6761.3	6557.3	6333.7	6210.8	5962.0	5716.1	5066.8	4963.4	3706.7
35°	7348.2	7365.9	7211.3	6988.6	6744.5	6635.6	6321.6	6008.6	5400.3	5287.6	3924.7
37.5°	7656.5	7647.2	7510.3	7317.5	7103.2	7008.2	6741.8	6328.1	5758.9	5650.9	4163.2
40°	7766.5	7760.9	7659.3	7518.7	7382.7	7349.1	7181.5	6672.8	6169.8	6043.1	4450.1
42.5°	7696.6	7708.7	7641.6	7603.5	7578.3	7602.5	7618.4	7124.6	6617.9	6501.4	4761.2
45°	7482.3	7475.8	7466.5	7528.9	7670.5	7829.8	8050.6	7551.3	7105.1	7011.9	5178.6
47.5°	7099.5	7146.1	7169.3	7341.7	7651.0	8028.2	8548.1	8123.3	7812.1	7731.1	5814.8
50°	6563.8	6601.1	6739.0	7045.4	7506.6	8102.8	9034.3	9058.6	8991.5	8839.6	6506.1
52.5°	5727.3	5785.0	6069.2	6630.9	7210.3	8072.0	9328.7	9860.6	9949.1	9835.5	7187.0
55°	4791.0	4872.1	5172.1	5908.9	6802.3	7904.3	9531.8	10325.5	10678.6	10573.3	7842.9
57.5°	3874.4	3960.1	4268.4	4982.0	6090.6	7533.6	9665.0	10843.4	11671.6	11534.7	8658.9
60°	2903.7	2993.1	3257.7	3992.7	5077.0	6808.8	9574.6	11292.5	12663.7	12605.0	9475.9
62.5°	1873.4	1972.1	2202.2	2810.5	3902.3	5818.6	9091.2	11540.3	13522.6	13451.8	10072.1
65°	1141.2	1152.3	1279.0	1744.8	2670.8	4505.1	7985.4	11211.4	13975.4	13953.9	10253.8
67.5°	737.8	755.5	813.3	1045.2	1601.4	3129.1	6385.0	10126.1	13710.8	13703.4	9878.3
70°	623.2	628.8	654.9	705.2	930.6	1897.6	4483.6	8396.2	12705.6	12705.6	8975.6
72.5°	557.1	564.5	573.8	589.7	664.2	1075.0	2675.5	6535.9	10970.1	11042.8	7639.8
75°	505.8	504.0	509.6	512.4	566.4	702.4	1383.4	4833.9	8486.6	8341.3	5532.6
77.5°	433.2	436.0	433.2	445.3	500.3	534.7	702.4	3243.7	5143.2	4955.0	2777.0
80°	355.9	360.5	365.2	372.6	427.6	406.2	422.0	1478.4	1902.3	1862.2	858.0
82.5°	267.4	273.9	281.3	299.0	336.3	268.3	266.4	631.6	686.6	628.8	315.8
85°	108.1	127.6	192.8	210.5	211.5	147.2	164.0	263.6	280.4	273.9	123.9
87.5°	25.2	29.8	62.4	94.1	86.6	55.0	60.6	85.7	97.8	90.4	41.9
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°	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8	1595.8
2.5°	1627.4	1594.8	1538.9	1496.1	1465.4	1438.3	1421.6	1411.3	1407.6	1406.7	1407.6
5°	1682.4	1624.7	1536.2	1480.3	1449.5	1431.8	1421.6	1420.6	1421.6	1422.5	1419.7
7.5°	1757.9	1675.0	1559.4	1507.3	1484.0	1470.9	1466.3	1464.4	1465.4	1464.4	1464.4
10°	1858.5	1744.8	1605.1	1551.1	1531.5	1516.6	1509.1	1504.5	1500.8	1497.0	1495.2
12.5°	1969.3	1822.1	1654.5	1602.3	1574.3	1551.1	1534.3	1522.2	1513.8	1505.4	1503.5
15°	2093.2	1904.1	1709.4	1636.8	1596.7	1562.2	1533.4	1513.8	1498.9	1486.8	1485.8
17.5°	2211.5	1981.4	1746.7	1652.6	1593.9	1545.5	1507.3	1480.3	1461.6	1445.8	1443.9
20°	2338.2	2055.0	1763.5	1642.4	1566.0	1507.3	1457.0	1424.4	1402.9	1385.2	1382.4
22.5°	2465.9	2117.5	1761.6	1609.7	1517.5	1448.6	1395.5	1361.0	1335.9	1318.2	1311.6
25°	2587.9	2167.8	1738.3	1557.6	1450.4	1378.7	1324.7	1293.0	1270.7	1249.2	1249.2
27.5°	2697.8	2197.6	1694.5	1494.2	1381.5	1306.1	1263.2	1234.3	1213.8	1199.9	1191.5
30°	2805.9	2211.5	1634.9	1414.1	1308.9	1244.6	1210.1	1193.3	1174.7	1158.9	1157.0
32.5°	2902.8	2208.7	1560.4	1335.9	1239.9	1194.3	1180.3	1167.3	1147.7	1125.3	1119.7
35°	2996.9	2190.1	1471.9	1250.2	1182.2	1164.5	1168.2	1149.6	1114.2	1086.2	1081.5
37.5°	3099.3	2156.6	1375.0	1180.3	1133.7	1150.5	1159.8	1118.8	1061.1	1017.3	1007.0
40°	3217.6	2118.4	1274.4	1110.4	1095.5	1137.4	1137.4	1062.0	982.8	955.8	948.3
42.5°	3356.4	2086.7	1190.5	1051.7	1063.8	1105.8	1101.1	986.5	953.9	940.0	936.2
45°	3576.3	2075.5	1103.9	1000.5	1037.8	1068.5	1030.3	960.4	941.8	930.6	926.9
47.5°	3923.8	2088.6	1027.5	962.3	1008.0	1031.2	951.1	942.7	929.7	913.9	912.0
50°	4246.1	2076.5	973.5	940.9	981.9	986.5	918.5	921.3	913.9	896.2	892.4
52.5°	4509.7	2038.3	939.0	929.7	959.5	908.3	887.8	898.0	895.2	872.9	869.2
55°	4799.4	2015.0	922.3	929.7	944.6	840.3	858.9	873.8	870.1	854.2	853.3
57.5°	5150.6	2019.6	910.1	932.5	929.7	805.8	830.0	847.7	846.8	842.1	842.1
60°	5510.2	2021.5	891.5	931.6	912.0	778.8	800.2	825.4	827.2	830.0	830.0
62.5°	5629.5	1940.5	855.2	914.8	872.9	752.7	772.3	806.7	804.9	812.3	813.3
65°	5406.8	1715.9	801.1	876.6	822.6	734.1	750.8	782.5	772.3	791.8	795.6
67.5°	4921.5	1419.7	717.3	807.7	766.7	714.5	736.9	749.0	730.3	768.5	769.5
70°	4253.5	1108.6	611.1	709.9	703.3	694.0	725.7	707.1	681.0	727.6	718.2
72.5°	3556.7	846.8	488.1	580.4	618.6	663.3	706.1	653.0	616.7	630.7	613.9
75°	2671.7	626.0	392.2	454.6	515.2	619.5	688.4	587.8	531.9	518.9	515.2
77.5°	1362.0	409.0	293.4	340.0	386.6	559.9	664.2	511.4	440.6	420.1	410.8
80°	486.3	254.3	206.8	234.8	260.8	481.6	580.4	422.9	341.9	338.2	341.9
82.5°	225.4	164.0	138.8	153.7	154.6	321.4	442.5	315.8	259.9	395.0	333.5
85°	96.9	82.0	78.3	76.4	70.8	143.5	248.7	169.5	264.6	118.3	109.0
87.5°	28.9	32.6	28.9	21.4	15.8	15.8	25.2	9.3	6.5	4.7	4.7
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)