

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: P453255

Luminaire Tested: **GALN-SA4B-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453255
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-SA4B-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20892 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

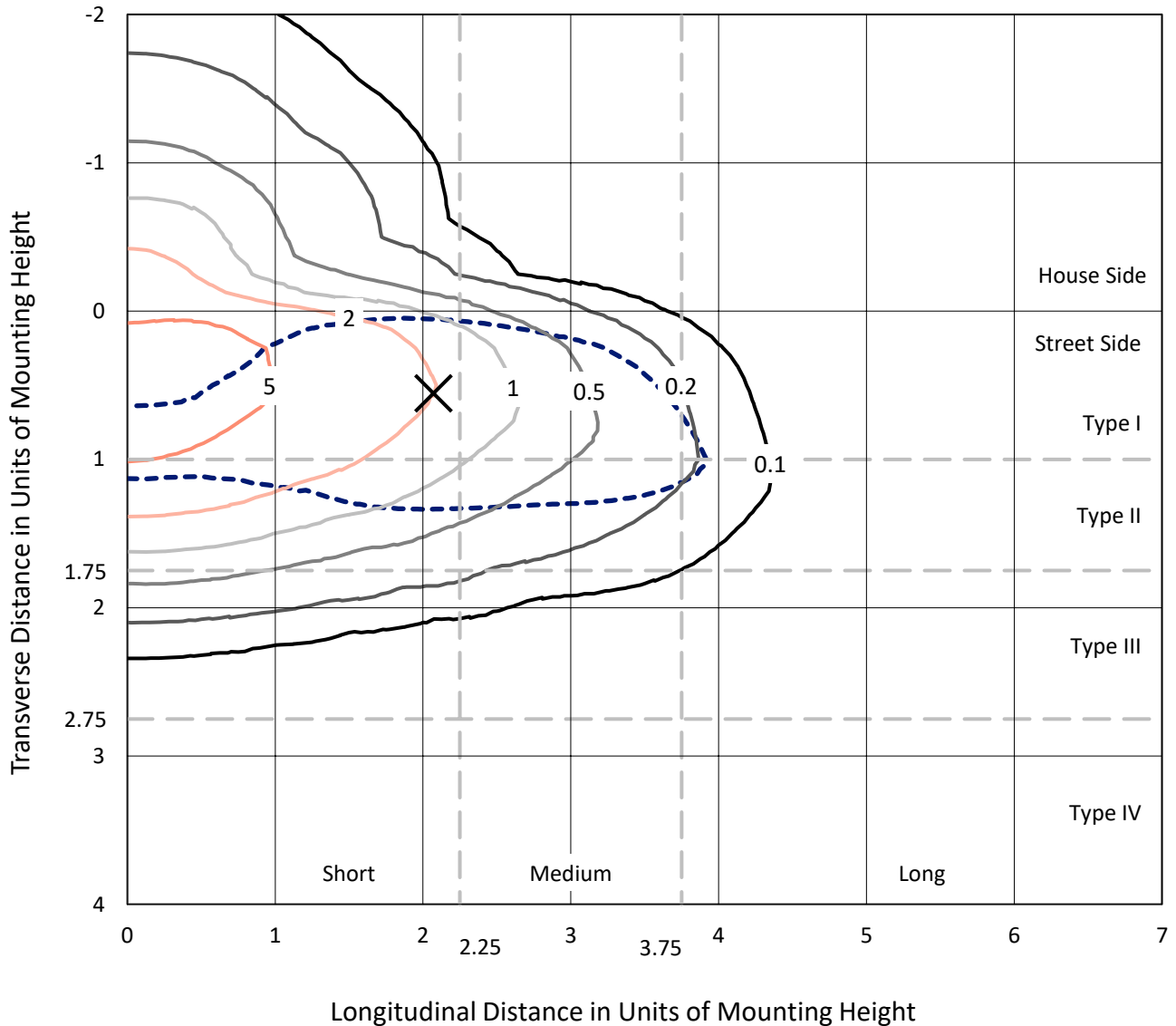
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

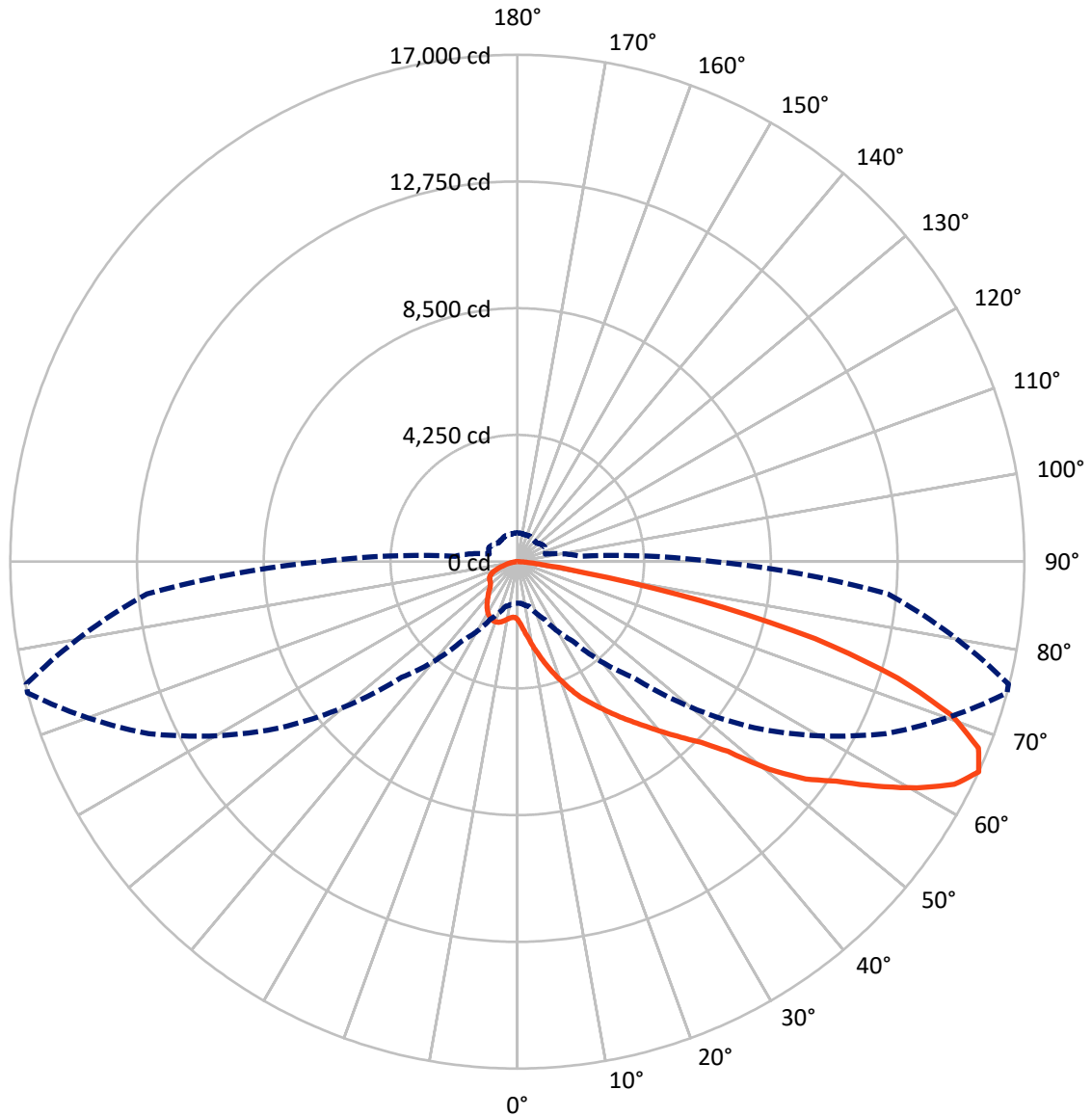
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	3512.2	0.0	3512.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	17379.8	0.0	17379.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	20892.0	0.0	20892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.8	1.1
10°-20°	923.8	4.4
20°-30°	1784.4	8.5
30°-40°	2898.4	13.9
40°-50°	3987.0	19.1
50°-60°	4707.3	22.5
60°-70°	4124.4	19.7
70°-80°	1969.0	9.4
80°-90°	262.0	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°	20892.0	100.0
0°-180°	20892.0	100.0

Coefficient of Utilization

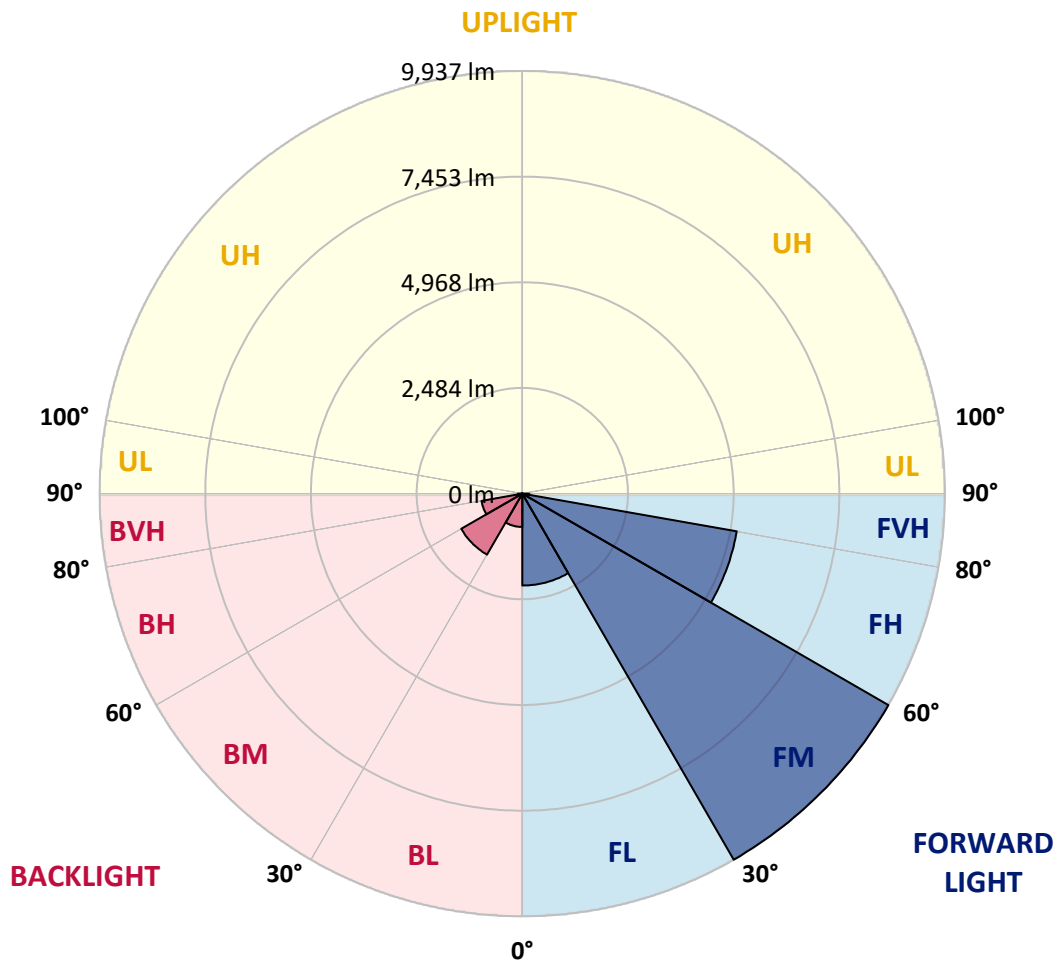


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2159.9	10.3			
FM	(30°-60°)	9936.7	47.6			
FH	(60°-80°)	5119.5	24.5			G3/7500
FVH	(80°-90°)	163.7	0.8			G2/225
BL	(0°-30°)	784.1	3.8	B2/1000		
BM	(30°-60°)	1656.0	7.9	B2/2500		
BH	(60°-80°)	973.9	4.7	B2/1000		G2/1000
BVH	(80°-90°)	98.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1
2.5°	2579.1	2562.1	2544.0	2494.1	2440.9	2380.8	2294.7	2212.0	2102.0	2098.6	2017.1
5°	3294.1	3282.8	3202.4	3155.9	3032.4	2868.1	2728.7	2512.3	2311.7	2287.9	2129.2
7.5°	3951.4	3907.2	3876.6	3792.7	3670.4	3459.6	3189.9	2897.5	2562.1	2530.4	2267.5
10°	4446.6	4442.1	4426.2	4353.7	4261.9	4052.2	3753.1	3333.8	2879.4	2817.1	2435.2
12.5°	4817.1	4820.5	4818.3	4817.1	4751.4	4573.5	4249.4	3807.5	3200.1	3155.9	2629.0
15°	5060.8	5094.8	5108.4	5165.0	5170.7	5051.7	4772.9	4265.3	3561.6	3495.8	2837.5
17.5°	5221.7	5238.7	5302.1	5398.5	5476.6	5455.1	5206.9	4689.1	3931.0	3821.1	3053.9
20°	5375.8	5405.3	5454.0	5585.4	5723.7	5787.1	5612.6	5123.1	4297.0	4226.7	3293.0
22.5°	5696.5	5738.4	5755.4	5822.3	5940.1	6052.3	5973.0	5539.0	4698.1	4603.0	3546.8
25°	6239.3	6283.5	6235.9	6220.0	6258.5	6314.1	6297.1	5931.0	5076.6	4940.6	3787.1
27.5°	6946.4	6952.0	6859.1	6770.7	6675.5	6647.2	6595.1	6278.9	5405.3	5291.9	4028.4
30°	7705.6	7678.4	7524.3	7364.5	7203.6	7045.0	6895.4	6614.3	5771.3	5641.0	4265.3
32.5°	8410.4	8395.7	8224.6	7976.4	7704.5	7554.9	7252.3	6953.2	6163.3	6037.6	4508.9
35°	8938.5	8960.0	8771.9	8501.1	8204.2	8071.6	7689.7	7309.0	6569.0	6431.9	4774.1
37.5°	9313.6	9302.2	9135.7	8901.1	8640.5	8524.9	8200.8	7697.7	7005.3	6873.8	5064.2
40°	9447.3	9440.5	9317.0	9145.9	8980.4	8939.6	8735.7	8116.9	7505.0	7350.9	5413.2
42.5°	9362.3	9377.0	9295.4	9249.0	9218.4	9247.9	9267.1	8666.5	8050.1	7908.4	5791.7
45°	9101.7	9093.7	9082.4	9158.3	9330.6	9524.3	9792.9	9185.5	8642.7	8529.4	6299.3
47.5°	8635.9	8692.6	8720.9	8930.6	9306.8	9765.7	10398.0	9881.3	9502.8	9404.2	7073.3
50°	7984.4	8029.7	8197.4	8570.2	9131.1	9856.4	10989.5	11019.0	10937.4	10752.7	7914.1
52.5°	6966.8	7037.0	7382.6	8065.9	8770.8	9819.0	11347.6	11994.7	12102.3	11964.1	8742.5
55°	5827.9	5926.5	6291.4	7187.7	8274.5	9615.0	11594.7	12560.1	12989.6	12861.5	9540.2
57.5°	4712.9	4817.1	5192.2	6060.2	7408.7	9164.0	11756.7	13190.2	14197.6	14031.0	10532.9
60°	3532.1	3640.9	3962.7	4856.8	6175.8	8282.4	11646.8	13736.4	15404.4	15333.0	11526.7
62.5°	2278.8	2398.9	2678.8	3418.8	4746.9	7077.8	11058.7	14037.8	16449.2	16363.1	12251.9
65°	1388.1	1401.7	1555.9	2122.4	3248.8	5480.0	9713.6	13637.8	16999.9	16973.8	12472.9
67.5°	897.5	919.0	989.3	1271.4	1947.9	3806.3	7766.8	12317.6	16678.1	16669.0	12016.2
70°	758.1	764.9	796.6	857.8	1132.0	2308.3	5454.0	10213.3	15455.4	15455.4	10918.2
72.5°	677.6	686.7	698.0	717.3	808.0	1307.7	3254.5	7950.4	13344.3	13432.7	9293.2
75°	615.3	613.0	619.8	623.2	689.0	854.4	1682.8	5880.1	10323.2	10146.5	6729.9
77.5°	526.9	530.3	526.9	541.7	608.5	650.4	854.4	3945.7	6256.3	6027.4	3378.0
80°	432.9	438.5	444.2	453.3	520.1	494.1	513.3	1798.4	2313.9	2265.2	1043.7
82.5°	325.2	333.2	342.2	363.7	409.1	326.4	324.1	768.3	835.2	764.9	384.1
85°	131.4	155.2	234.6	256.1	257.2	179.0	199.4	320.7	341.1	333.2	150.7
87.5°	30.6	36.3	75.9	114.5	105.4	66.9	73.7	104.3	119.0	109.9	51.0
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°	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1	1941.1
2.5°	1979.7	1940.0	1872.0	1819.9	1782.5	1749.6	1729.2	1716.8	1712.2	1711.1	1712.2
5°	2046.5	1976.3	1868.6	1800.6	1763.2	1741.7	1729.2	1728.1	1729.2	1730.4	1727.0
7.5°	2138.3	2037.5	1896.9	1833.5	1805.1	1789.3	1783.6	1781.4	1782.5	1781.4	1781.4
10°	2260.7	2122.4	1952.5	1886.7	1862.9	1844.8	1835.7	1830.1	1825.5	1821.0	1818.7
12.5°	2395.5	2216.5	2012.5	1949.1	1915.1	1886.7	1866.3	1851.6	1841.4	1831.2	1828.9
15°	2546.2	2316.2	2079.4	1991.0	1942.3	1900.3	1865.2	1841.4	1823.3	1808.5	1807.4
17.5°	2690.2	2410.3	2124.7	2010.3	1938.9	1879.9	1833.5	1800.6	1778.0	1758.7	1756.4
20°	2844.3	2499.8	2145.1	1997.8	1904.9	1833.5	1772.3	1732.6	1706.6	1685.0	1681.6
22.5°	2999.5	2575.7	2142.8	1958.1	1845.9	1762.1	1697.5	1655.6	1625.0	1603.4	1595.5
25°	3148.0	2636.9	2114.5	1894.7	1764.4	1677.1	1611.4	1572.8	1545.7	1519.6	1519.6
27.5°	3281.7	2673.2	2061.2	1817.6	1680.5	1588.7	1536.6	1501.5	1476.5	1459.5	1449.3
30°	3413.1	2690.2	1988.7	1720.2	1592.1	1513.9	1472.0	1451.6	1428.9	1409.7	1407.4
32.5°	3531.0	2686.8	1898.1	1625.0	1508.3	1452.7	1435.7	1419.9	1396.1	1368.9	1362.1
35°	3645.4	2664.1	1790.4	1520.7	1438.0	1416.5	1421.0	1398.3	1355.3	1321.3	1315.6
37.5°	3770.1	2623.3	1672.6	1435.7	1379.1	1399.5	1410.8	1360.9	1290.7	1237.4	1225.0
40°	3914.0	2576.8	1550.2	1350.7	1332.6	1383.6	1383.6	1291.8	1195.5	1162.6	1153.6
42.5°	4082.8	2538.3	1448.2	1279.4	1294.1	1345.1	1339.4	1200.0	1160.4	1143.4	1138.8
45°	4350.3	2524.7	1342.8	1217.0	1262.4	1299.8	1253.3	1168.3	1145.6	1132.0	1127.5
47.5°	4772.9	2540.6	1249.9	1170.6	1226.1	1254.4	1157.0	1146.8	1130.9	1111.6	1109.4
50°	5165.0	2525.8	1184.2	1144.5	1194.4	1200.0	1117.3	1120.7	1111.6	1090.1	1085.6
52.5°	5485.7	2479.4	1142.2	1130.9	1167.2	1104.8	1079.9	1092.4	1089.0	1061.8	1057.3
55°	5838.1	2451.1	1121.8	1130.9	1149.0	1022.1	1044.8	1062.9	1058.4	1039.1	1038.0
57.5°	6265.3	2456.7	1107.1	1134.3	1130.9	980.2	1009.7	1031.2	1030.1	1024.4	1024.4
60°	6702.7	2459.0	1084.4	1133.2	1109.4	947.3	973.4	1004.0	1006.3	1009.7	1009.7
62.5°	6847.8	2360.4	1040.3	1112.8	1061.8	915.6	939.4	981.3	979.1	988.1	989.3
65°	6577.0	2087.3	974.5	1066.3	1000.6	892.9	913.3	951.9	939.4	963.2	967.7
67.5°	5986.6	1727.0	872.5	982.5	932.6	869.1	896.3	911.1	888.4	934.9	936.0
70°	5174.1	1348.5	743.4	863.5	855.5	844.2	882.7	860.1	828.4	885.0	873.7
72.5°	4326.5	1030.1	593.8	706.0	752.4	806.8	858.9	794.4	750.2	767.2	746.8
75°	3249.9	761.5	477.1	553.0	626.6	753.6	837.4	715.0	647.0	631.2	626.6
77.5°	1656.7	497.5	357.0	413.6	470.3	681.0	808.0	622.1	536.0	511.1	499.7
80°	591.5	309.4	251.6	285.6	317.3	585.9	706.0	514.5	415.9	411.3	415.9
82.5°	274.2	199.4	168.8	187.0	188.1	390.9	538.3	384.1	316.2	480.5	405.7
85°	117.9	99.7	95.2	92.9	86.1	174.5	302.6	206.2	321.8	143.9	132.6
87.5°	35.1	39.7	35.1	26.1	19.3	19.3	30.6	11.3	7.9	5.7	5.7
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)