

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: P459229

Luminaire Tested: **GALN-SA7A-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459229
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-SA7A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 30240 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

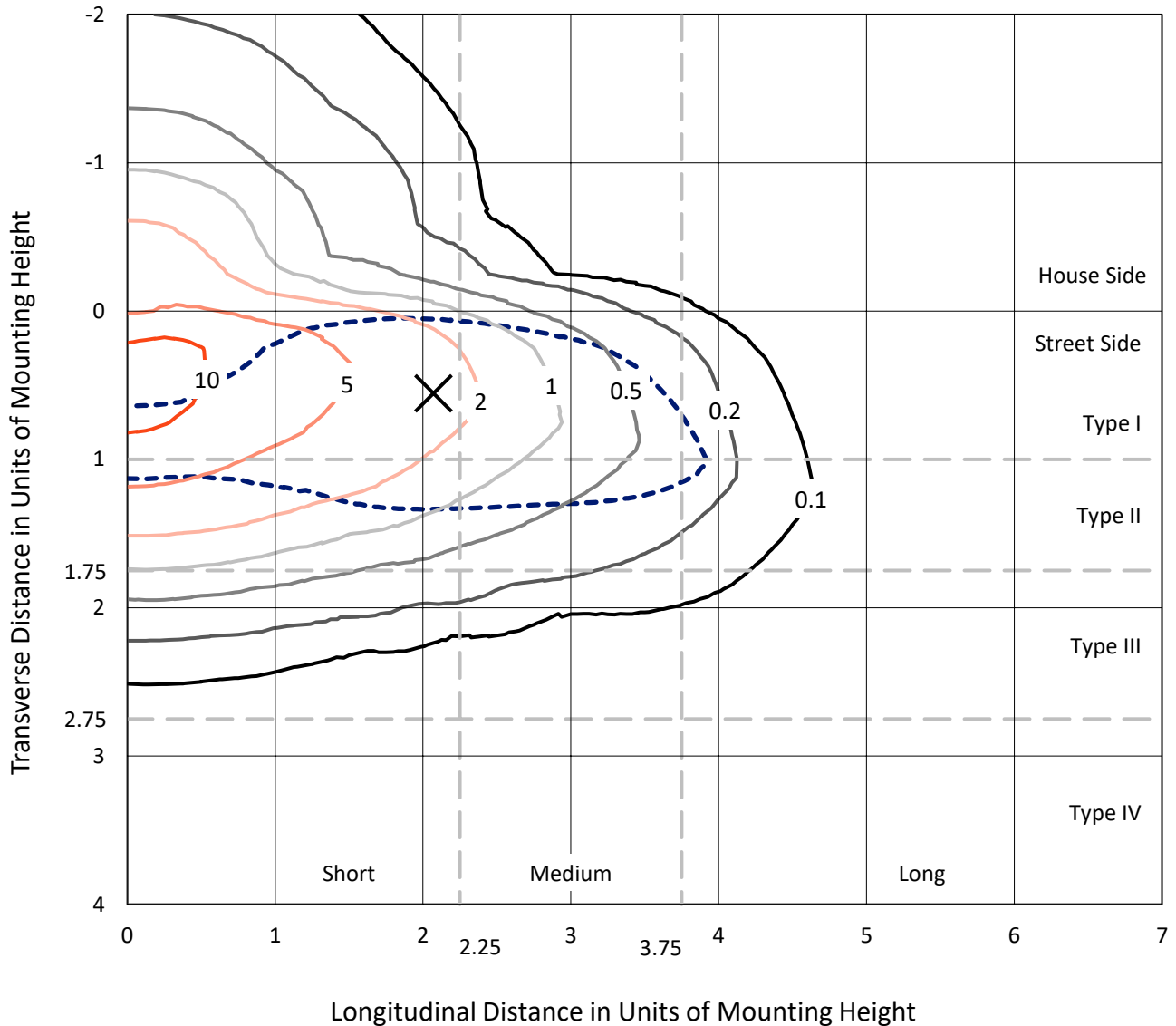
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

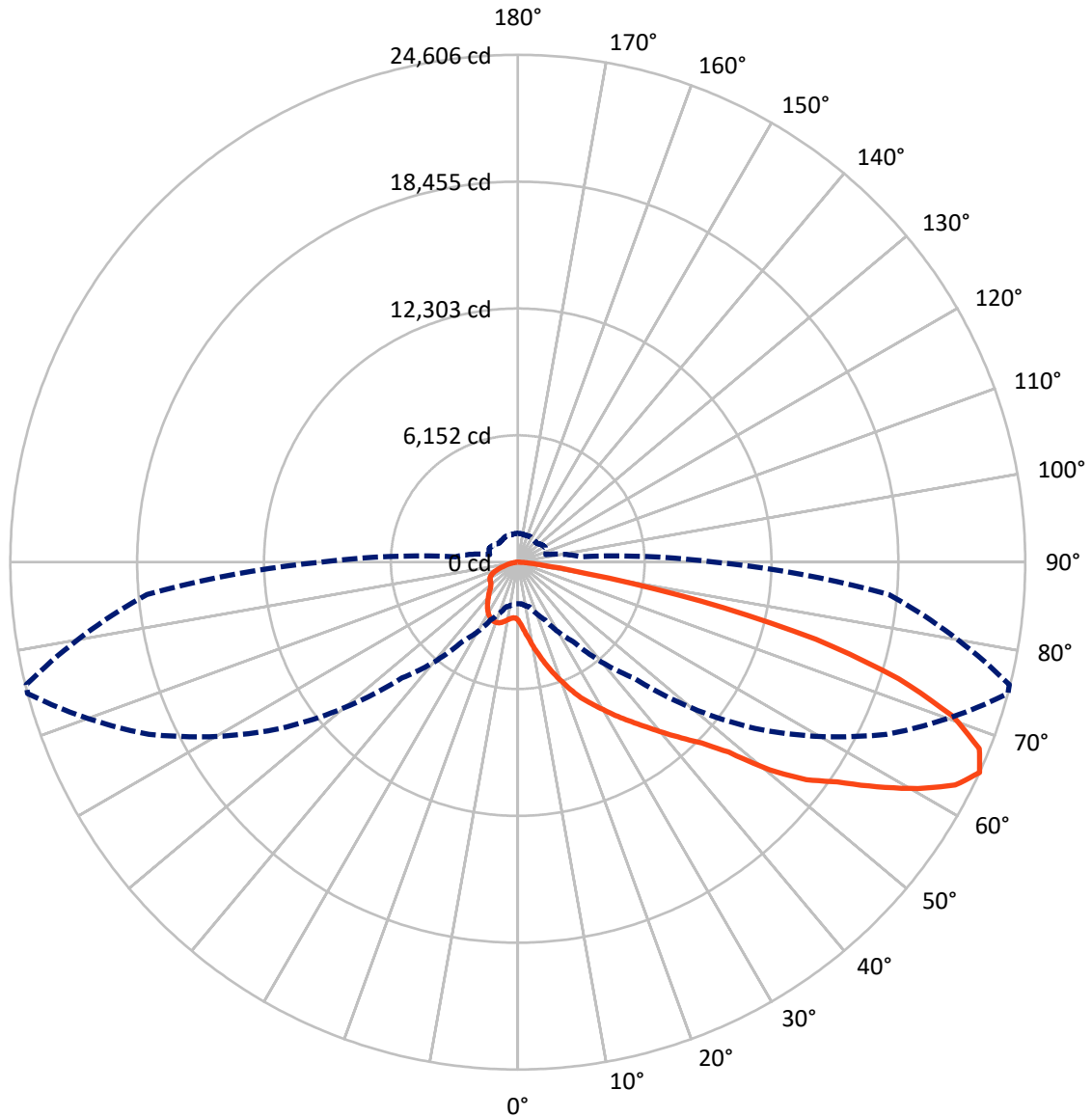
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	5083.7	0.0	5083.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	25156.3	0.0	25156.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	30240.0	0.0	30240.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.4	1.1
10°-20°	1337.1	4.4
20°-30°	2582.8	8.5
30°-40°	4195.3	13.9
40°-50°	5770.9	19.1
50°-60°	6813.5	22.5
60°-70°	5969.8	19.7
70°-80°	2850.0	9.4
80°-90°	379.2	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°	30240.0	100.0
0°-180°	30240.0	100.0

Coefficient of Utilization



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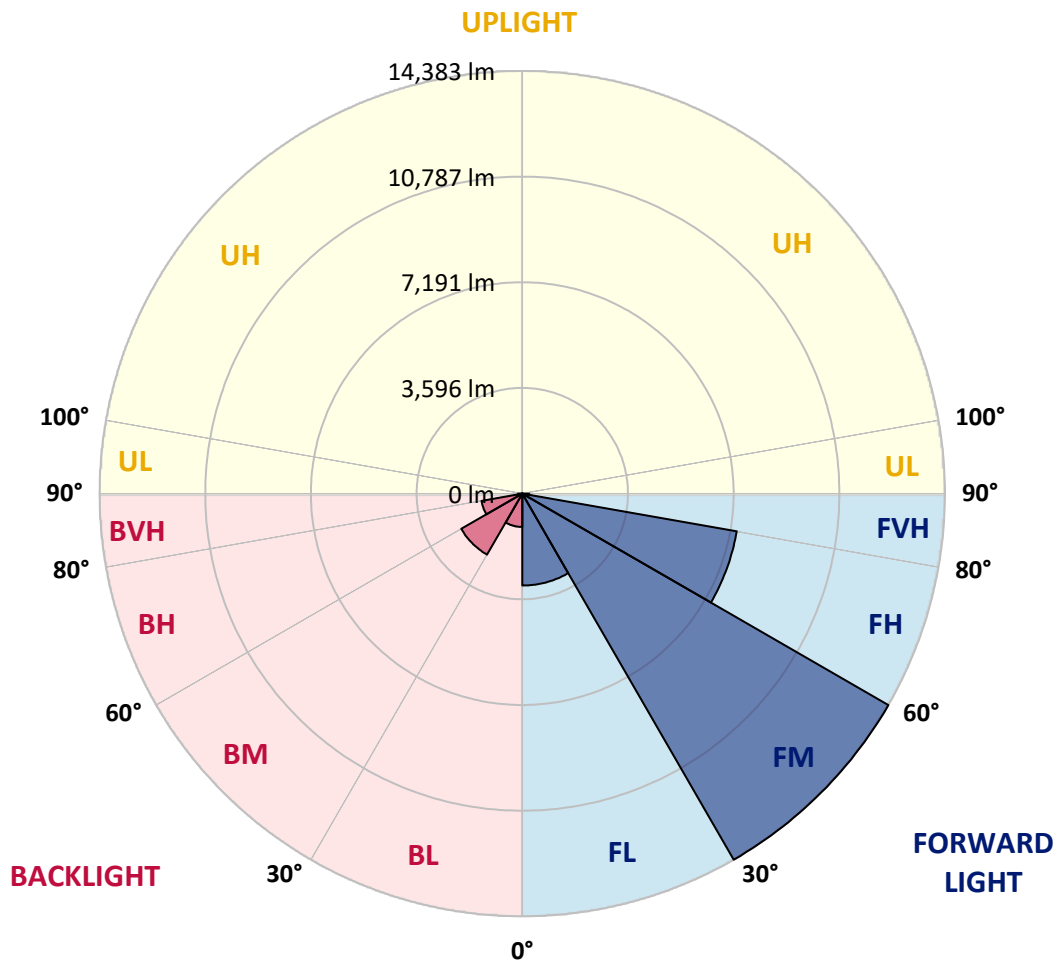
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3126.3	10.3			
FM (30°-60°)	14382.8	47.6			
FH (60°-80°)	7410.2	24.5			G3/7500
FVH (80°-90°)	237.0	0.8			G3/500
BL (0°-30°)	1134.9	3.8	B3/2500		
BM (30°-60°)	2396.9	7.9	B2/2500		
BH (60°-80°)	1409.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	142.2	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°	2809.7	2809.7	2809.7	2809.7	2809.7	2809.7	2809.7	2809.7	2809.7	2809.7	2809.7
2.5°	3733.1	3708.5	3682.3	3610.1	3533.0	3446.1	3321.4	3201.7	3042.6	3037.7	2919.6
5°	4768.1	4751.7	4635.2	4568.0	4389.2	4151.4	3949.6	3636.3	3346.0	3311.6	3082.0
7.5°	5719.4	5655.4	5611.2	5489.8	5312.6	5007.6	4617.2	4194.0	3708.5	3662.6	3282.1
10°	6436.2	6429.6	6406.7	6301.7	6168.8	5865.4	5432.4	4825.5	4167.8	4077.6	3524.8
12.5°	6972.5	6977.4	6974.2	6972.5	6877.4	6619.9	6150.8	5511.1	4632.0	4568.0	3805.3
15°	7325.2	7374.4	7394.1	7476.1	7484.3	7312.1	6908.6	6173.7	5155.2	5060.0	4107.1
17.5°	7558.1	7582.7	7674.5	7814.0	7927.1	7896.0	7536.8	6787.2	5689.9	5530.8	4420.4
20°	7781.2	7823.8	7894.3	8084.6	8284.7	8376.5	8124.0	7415.4	6219.7	6118.0	4766.4
22.5°	8245.3	8306.0	8330.6	8427.4	8598.0	8760.4	8645.5	8017.3	6800.3	6662.5	5133.9
25°	9031.0	9095.0	9026.1	9003.1	9058.9	9139.2	9114.6	8584.9	7348.1	7151.3	5481.6
27.5°	10054.5	10062.7	9928.2	9800.2	9662.5	9621.5	9546.0	9088.4	7823.8	7659.8	5830.9
30°	11153.4	11114.1	10891.0	10659.7	10426.8	10197.2	9980.7	9573.9	8353.6	8165.0	6173.7
32.5°	12173.6	12152.3	11904.6	11545.4	11151.8	10935.3	10497.3	10064.3	8921.1	8739.0	6526.4
35°	12938.0	12969.1	12696.9	12304.8	11875.1	11683.2	11130.5	10579.3	9508.3	9309.8	6910.2
37.5°	13480.9	13464.5	13223.4	12883.8	12506.6	12339.3	11870.2	11141.9	10139.8	9949.5	7330.1
40°	13674.4	13664.6	13485.8	13238.1	12998.7	12939.6	12644.4	11748.8	10863.1	10640.0	7835.3
42.5°	13551.4	13572.7	13454.6	13387.4	13343.1	13385.7	13413.6	12544.3	11652.0	11447.0	8383.1
45°	13174.2	13162.7	13146.3	13256.2	13505.5	13786.0	14174.7	13295.5	12509.9	12345.9	9117.9
47.5°	12500.0	12582.0	12623.0	12926.5	13471.0	14135.3	15050.6	14302.6	13754.8	13612.1	10238.2
50°	11556.9	11622.5	11865.3	12404.9	13216.8	14266.5	15906.7	15949.4	15831.3	15563.9	11455.2
52.5°	10084.0	10185.7	10686.0	11675.0	12695.2	14212.4	16425.1	17361.6	17517.4	17317.3	12654.2
55°	8435.6	8578.3	9106.4	10403.8	11976.8	13917.2	16782.6	18180.1	18801.7	18616.4	13808.9
57.5°	6821.6	6972.5	7515.4	8771.8	10723.7	13264.4	17017.2	19092.0	20550.2	20309.1	15245.7
60°	5112.5	5270.0	5735.8	7029.9	8939.1	11988.3	16858.1	19882.6	22297.0	22193.7	16684.2
62.5°	3298.5	3472.3	3877.5	4948.5	6870.8	10244.7	16006.8	20318.9	23809.3	23684.6	17733.9
65°	2009.3	2028.9	2252.0	3072.1	4702.5	7932.1	14059.9	19739.9	24606.4	24568.7	18053.8
67.5°	1299.0	1330.2	1431.9	1840.3	2819.5	5509.5	11242.0	17829.1	24140.6	24127.5	17392.8
70°	1097.3	1107.1	1153.1	1241.6	1638.6	3341.1	7894.3	14783.2	22370.8	22370.8	15803.4
72.5°	980.8	994.0	1010.4	1038.3	1169.5	1892.8	4710.7	11507.7	19315.1	19443.0	13451.4
75°	890.6	887.4	897.2	902.1	997.2	1236.7	2435.7	8511.0	14942.3	14686.4	9741.2
77.5°	762.7	767.6	762.7	784.0	880.8	941.5	1236.7	5711.2	9055.6	8724.3	4889.5
80°	626.6	634.8	643.0	656.1	752.9	715.1	743.0	2603.0	3349.3	3278.8	1510.6
82.5°	470.7	482.2	495.3	526.5	592.1	472.4	469.1	1112.1	1208.8	1107.1	556.0
85°	190.3	224.7	339.5	370.7	372.3	259.2	288.7	464.2	493.7	482.2	218.1
87.5°	44.3	52.5	109.9	165.7	152.5	96.8	106.6	150.9	172.2	159.1	73.8
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°	2809.7	2809.7	2809.7	2809.7	2809.7	2809.7	2809.7	2809.7	2809.7	2809.7	2809.7
2.5°	2865.4	2808.0	2709.6	2634.2	2580.0	2532.5	2503.0	2484.9	2478.4	2476.7	2478.4
5°	2962.2	2860.5	2704.7	2606.3	2552.2	2521.0	2503.0	2501.3	2503.0	2504.6	2499.7
7.5°	3095.1	2949.1	2745.7	2653.9	2612.9	2589.9	2581.7	2578.4	2580.0	2578.4	2578.4
10°	3272.2	3072.1	2826.1	2730.9	2696.5	2670.3	2657.1	2648.9	2642.4	2635.8	2632.5
12.5°	3467.4	3208.2	2913.0	2821.2	2772.0	2730.9	2701.4	2680.1	2665.3	2650.6	2647.3
15°	3685.5	3352.6	3009.8	2881.8	2811.3	2750.6	2699.8	2665.3	2639.1	2617.8	2616.1
17.5°	3893.9	3488.7	3075.4	2909.7	2806.4	2721.1	2653.9	2606.3	2573.5	2545.6	2542.3
20°	4116.9	3618.3	3104.9	2891.7	2757.2	2653.9	2565.3	2507.9	2470.2	2439.0	2434.1
22.5°	4341.6	3728.2	3101.6	2834.3	2671.9	2550.5	2457.0	2396.3	2352.1	2320.9	2309.4
25°	4556.5	3816.8	3060.6	2742.4	2553.8	2427.5	2332.4	2276.6	2237.2	2199.5	2199.5
27.5°	4750.0	3869.3	2983.5	2630.9	2432.4	2299.6	2224.1	2173.3	2137.2	2112.6	2097.8
30°	4940.3	3893.9	2878.6	2489.8	2304.5	2191.3	2130.6	2101.1	2068.3	2040.4	2037.1
32.5°	5110.9	3888.9	2747.3	2352.1	2183.1	2102.7	2078.1	2055.2	2020.7	1981.4	1971.5
35°	5276.6	3856.1	2591.5	2201.2	2081.4	2050.3	2056.8	2024.0	1961.7	1912.5	1904.3
37.5°	5457.0	3797.1	2420.9	2078.1	1996.1	2025.7	2042.1	1969.9	1868.2	1791.1	1773.1
40°	5665.3	3729.8	2243.8	1955.1	1928.9	2002.7	2002.7	1869.8	1730.4	1682.9	1669.7
42.5°	5909.7	3674.1	2096.2	1851.8	1873.1	1946.9	1938.7	1737.0	1679.6	1655.0	1648.4
45°	6296.8	3654.4	1943.6	1761.6	1827.2	1881.3	1814.1	1691.1	1658.3	1638.6	1632.0
47.5°	6908.6	3677.3	1809.2	1694.3	1774.7	1815.7	1674.7	1659.9	1636.9	1609.0	1605.8
50°	7476.1	3656.0	1714.0	1656.6	1728.8	1737.0	1617.2	1622.2	1609.0	1577.9	1571.3
52.5°	7940.3	3588.8	1653.3	1636.9	1689.4	1599.2	1563.1	1581.2	1576.2	1536.9	1530.3
55°	8450.4	3547.8	1623.8	1636.9	1663.2	1479.5	1512.3	1538.5	1532.0	1504.1	1502.4
57.5°	9068.7	3556.0	1602.5	1641.8	1636.9	1418.8	1461.4	1492.6	1490.9	1482.7	1482.7
60°	9701.8	3559.3	1569.7	1640.2	1605.8	1371.2	1408.9	1453.2	1456.5	1461.4	1461.4
62.5°	9911.8	3416.6	1505.7	1610.7	1536.9	1325.3	1359.7	1420.4	1417.1	1430.3	1431.9
65°	9519.8	3021.3	1410.6	1543.4	1448.3	1292.5	1322.0	1377.8	1359.7	1394.2	1400.7
67.5°	8665.2	2499.7	1263.0	1422.1	1349.9	1258.0	1297.4	1318.7	1285.9	1353.2	1354.8
70°	7489.2	1951.8	1076.0	1249.8	1238.4	1222.0	1277.7	1244.9	1199.0	1281.0	1264.6
72.5°	6262.3	1490.9	859.5	1021.9	1089.1	1167.8	1243.3	1149.8	1085.8	1110.4	1080.9
75°	4704.1	1102.2	690.5	800.4	907.0	1090.7	1212.1	1035.0	936.6	913.6	907.0
77.5°	2398.0	720.1	516.7	598.7	680.7	985.8	1169.5	900.5	775.8	739.7	723.3
80°	856.2	447.8	364.1	413.3	459.3	848.0	1021.9	744.7	602.0	595.4	602.0
82.5°	396.9	288.7	244.4	270.6	272.3	565.9	779.1	556.0	457.6	695.4	587.2
85°	170.6	144.3	137.8	134.5	124.7	252.6	437.9	298.5	465.8	208.3	191.9
87.5°	50.8	57.4	50.8	37.7	27.9	27.9	44.3	16.4	11.5	8.2	8.2
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)