

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: P459278

Luminaire Tested: **GALN-SA7C-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44651 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

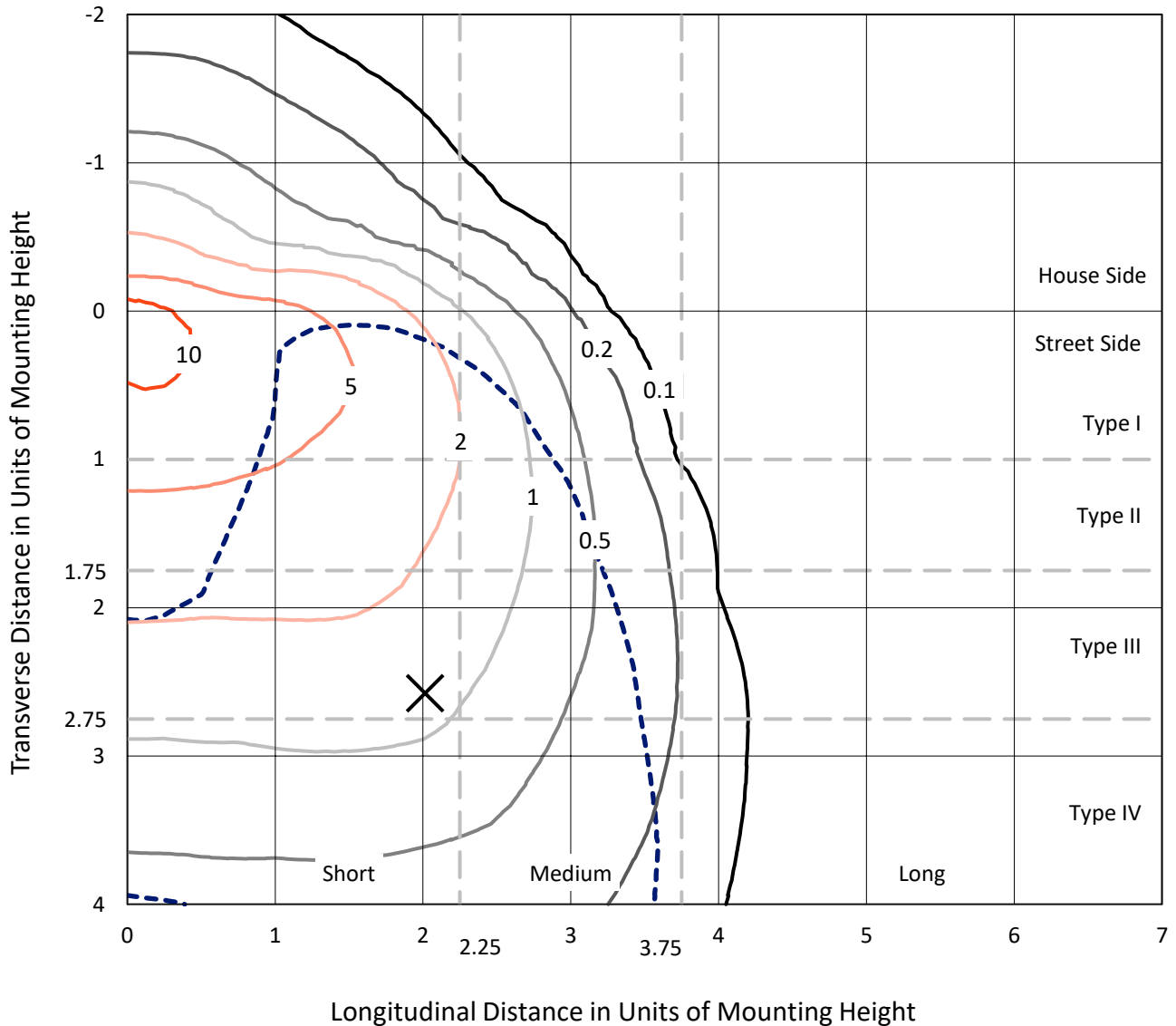
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

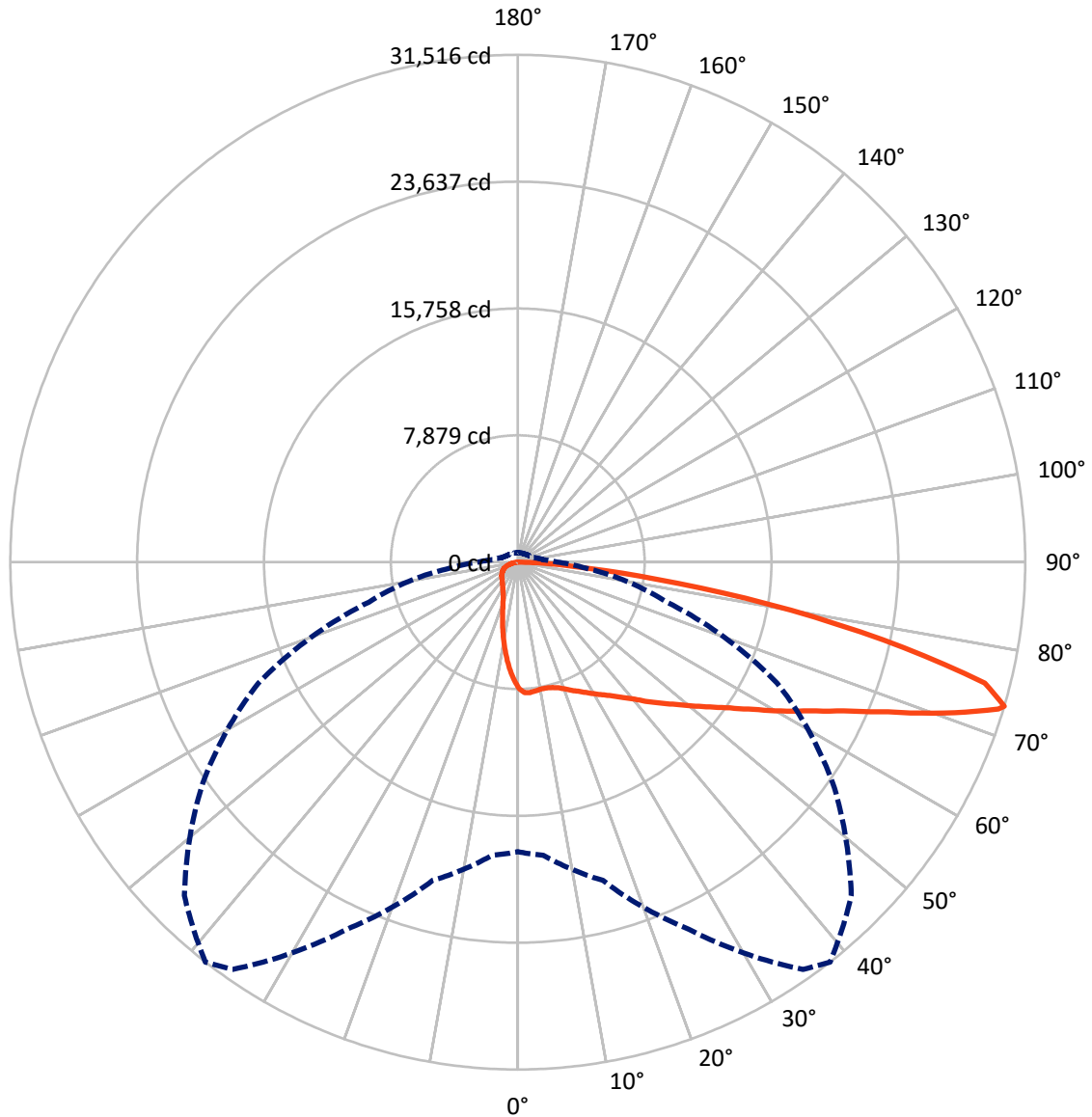
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6002.4	0.0	6002.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	38648.6	0.0	38648.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	44651.0	0.0	44651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.7	1.5
10°-20°	1755.9	3.9
20°-30°	2734.2	6.1
30°-40°	4010.5	9.0
40°-50°	5949.1	13.3
50°-60°	8428.7	18.9
60°-70°	10692.1	23.9
70°-80°	8900.3	19.9
80°-90°	1495.4	3.3
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°	44651.0	100.0
0°-180°	44651.0	100.0

Coefficient of Utilization



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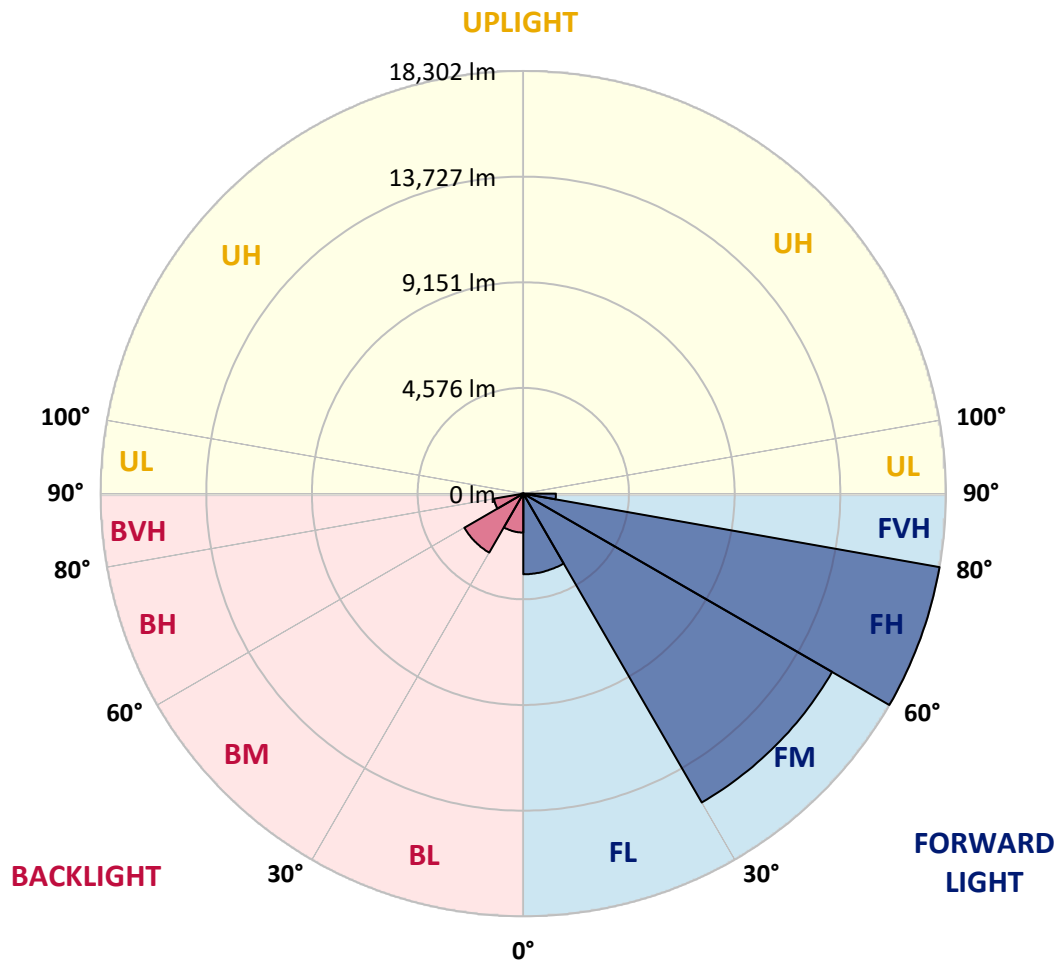
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3490.5	7.8			
FM	(30°-60°)	15441.5	34.6			
FH	(60°-80°)	18302.3	41.0			G5
FVH	(80°-90°)	1414.3	3.2			G5
BL	(0°-30°)	1684.3	3.8	B3/2500		
BM	(30°-60°)	2946.8	6.6	B3/5000		
BH	(60°-80°)	1290.2	2.9	B3/2500		G3/2500
BVH	(80°-90°)	81.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7844.4	7844.4	7844.4	7844.4	7844.4	7844.4	7844.4	7844.4	7844.4	7844.4	7844.4
2.5°	8159.6	8200.0	8179.8	8152.0	8134.4	8116.7	8091.5	8018.4	7960.4	7897.4	7799.0
5°	8220.1	8245.3	8227.7	8192.4	8152.0	8134.4	8086.5	7990.7	7897.4	7791.5	7645.2
7.5°	8184.8	8194.9	8174.7	8131.9	8096.6	8063.8	8008.3	7902.4	7789.0	7660.4	7468.7
10°	8058.8	8096.6	8096.6	8061.3	8026.0	8008.3	7952.8	7852.0	7748.6	7602.4	7375.4
12.5°	7955.4	7995.7	8028.5	8018.4	8015.9	8015.9	7973.0	7897.4	7776.3	7637.7	7367.9
15°	7884.8	7932.7	8003.3	8043.6	8068.8	8076.4	8058.8	7993.2	7869.6	7708.3	7398.1
17.5°	7869.6	7927.6	8056.2	8144.5	8210.0	8207.5	8202.5	8111.7	7975.5	7809.1	7435.9
20°	7937.7	8013.4	8192.4	8331.1	8426.9	8409.2	8381.5	8263.0	8104.1	7917.5	7471.2
22.5°	8142.0	8220.1	8416.8	8568.1	8661.4	8661.4	8578.2	8421.9	8252.9	8043.6	7519.1
25°	8434.5	8520.2	8729.5	8883.3	8926.2	8893.4	8810.2	8621.0	8426.9	8225.2	7620.0
27.5°	8792.5	8895.9	9090.1	9218.6	9206.0	9180.8	9095.1	8853.0	8658.9	8474.8	7791.5
30°	9238.8	9314.5	9516.2	9546.4	9501.1	9496.0	9375.0	9132.9	8951.4	8810.2	8036.1
32.5°	9659.9	9728.0	9889.4	9902.0	9821.3	9831.4	9717.9	9496.0	9392.6	9342.2	8447.1
35°	10106.2	10141.5	10280.2	10265.1	10212.1	10204.6	10159.2	9947.4	9980.1	10070.9	9029.5
37.5°	10479.4	10550.0	10628.2	10640.8	10638.3	10663.5	10693.7	10592.9	10782.0	11066.9	9793.6
40°	10822.3	10882.8	10998.8	11039.2	11137.5	11187.9	11291.3	11293.9	11730.1	12199.1	10734.1
42.5°	11054.3	11157.7	11374.5	11447.7	11687.2	11838.5	11992.3	12156.2	12789.1	13391.8	11843.5
45°	11256.0	11392.2	11752.8	11979.7	12305.0	12489.0	12814.3	13157.2	14067.5	14856.7	12970.7
47.5°	11561.1	11682.2	12095.7	12496.6	12988.3	13200.1	13686.8	14198.6	15388.8	16253.7	14049.9
50°	11984.7	12057.9	12479.0	13132.0	13759.9	14032.2	14675.2	15414.0	16800.8	17632.9	14998.0
52.5°	12526.9	12557.1	12892.5	13762.4	14589.5	14927.4	15779.6	16642.0	18036.4	18830.7	15749.4
55°	13167.3	13116.9	13379.1	14430.6	15537.6	15978.8	16894.1	17885.1	19425.7	19798.9	16296.5
57.5°	13800.2	13722.1	13931.4	15242.5	16707.5	17239.6	18306.2	19166.0	20666.3	20704.1	16679.8
60°	14471.0	14413.0	14662.6	16195.7	18142.3	18772.7	19758.6	20494.8	21866.6	21334.5	16740.3
62.5°	15159.3	15066.0	15421.6	17267.3	19758.6	20331.0	21286.6	21906.9	23044.1	21569.0	16157.8
65°	15827.5	15784.7	16334.4	18540.7	21599.3	22249.8	23177.7	23598.8	23987.1	21216.0	14713.0
67.5°	16538.6	16624.3	17501.8	20240.2	23999.8	24816.7	25817.8	25421.9	24256.9	19544.2	12390.7
70°	17622.8	17678.3	19034.9	22466.7	27093.6	28079.6	28563.7	26069.9	22955.8	16369.7	9314.5
72.5°	18089.3	18333.9	20404.1	24804.1	30608.6	31211.3	29486.6	24625.1	19123.1	11119.9	4894.3
73°	17985.9	18278.4	20467.1	25159.6	30883.5	31516.4	29289.9	23881.2	17776.7	9576.7	4195.8
75°	16697.5	17058.0	19647.6	24862.1	30348.9	29970.7	26127.9	20353.6	12012.5	4354.7	1911.3
77.5°	13174.9	13278.3	15567.8	20076.3	23898.9	23197.9	19554.3	12721.0	4906.9	1618.8	1084.3
80°	6608.9	6989.6	8774.9	11500.6	15981.3	15751.9	12342.8	6016.3	2044.9	950.6	718.6
82.5°	3179.6	3449.4	4274.0	5607.8	8830.3	8621.0	6112.1	3288.1	1298.6	554.7	423.6
85°	2047.5	2249.2	2720.7	2675.3	3631.0	3467.1	2745.9	2488.7	769.1	290.0	295.0
87.5°	1351.5	1480.1	1775.1	1419.6	1321.3	1195.2	1212.8	1402.0	151.3	110.9	40.3
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°	7844.4	7844.4	7844.4	7844.4	7844.4	7844.4	7844.4	7844.4	7844.4	7844.4	7844.4
2.5°	7758.7	7725.9	7617.5	7511.6	7410.7	7314.9	7251.9	7168.7	7113.2	7128.3	7151.0
5°	7564.5	7491.4	7299.8	7113.2	6936.7	6727.4	6558.5	6422.3	6318.9	6281.1	6273.5
7.5°	7360.3	7236.7	6961.9	6641.7	6341.6	6081.9	5781.8	5633.1	5459.1	5398.6	5378.4
10°	7236.7	7070.3	6684.5	6238.2	5786.9	5355.7	5030.4	4765.7	4526.1	4480.7	4458.0
12.5°	7201.4	6982.1	6462.6	5887.7	5287.6	4758.1	4276.5	3928.5	3696.5	3643.6	3565.4
15°	7181.3	6908.9	6255.9	5534.7	4773.2	4127.7	3620.9	3214.9	3003.1	2861.9	2864.4
17.5°	7163.6	6825.7	6023.9	5148.9	4329.4	3585.6	3025.8	2660.2	2466.0	2390.4	2382.8
20°	7138.4	6727.4	5756.6	4743.0	3822.6	3091.4	2584.5	2312.2	2181.1	2118.1	2115.5
22.5°	7128.3	6631.6	5494.4	4329.4	3373.8	2710.6	2292.1	2100.4	2017.2	1974.3	1974.3
25°	7153.5	6563.5	5219.5	3936.1	2975.4	2385.4	2090.3	1959.2	1911.3	1888.6	1881.0
27.5°	7231.7	6533.2	4947.2	3542.7	2609.8	2163.5	1954.2	1863.4	1828.1	1810.4	1813.0
30°	7380.5	6530.7	4679.9	3154.4	2337.4	1994.5	1845.7	1782.7	1755.0	1744.9	1742.4
32.5°	7620.0	6586.2	4417.7	2834.2	2108.0	1853.3	1744.9	1699.5	1686.9	1679.3	1676.8
35°	8026.0	6742.5	4158.0	2541.7	1931.5	1727.2	1649.1	1626.4	1608.7	1616.3	1618.8
37.5°	8573.1	7012.3	3910.9	2312.2	1797.8	1633.9	1568.4	1548.2	1538.1	1545.7	1553.3
40°	9306.9	7400.6	3704.1	2128.2	1702.0	1555.8	1497.8	1480.1	1470.0	1482.6	1485.2
42.5°	10116.3	7849.5	3532.6	1984.4	1623.9	1490.2	1434.7	1414.6	1407.0	1414.6	1417.1
45°	10948.4	8371.4	3444.4	1881.0	1558.3	1442.3	1384.3	1361.6	1344.0	1338.9	1346.5
47.5°	11767.9	8825.3	3441.9	1818.0	1505.3	1399.4	1336.4	1311.2	1288.5	1275.9	1273.4
50°	12436.1	9185.9	3502.4	1790.3	1460.0	1351.5	1288.5	1263.3	1233.0	1207.8	1212.8
52.5°	12940.4	9420.4	3530.1	1777.7	1434.7	1301.1	1238.1	1215.4	1180.1	1147.3	1147.3
55°	13265.7	9475.8	3462.0	1765.1	1414.6	1248.1	1180.1	1159.9	1124.6	1091.8	1091.8
57.5°	13376.6	9304.4	3217.4	1734.8	1394.4	1202.8	1122.1	1104.4	1076.7	1043.9	1038.9
60°	13119.4	8724.4	2788.8	1644.0	1354.1	1154.9	1059.0	1051.5	1041.4	1013.6	1011.1
62.5°	12128.5	7493.9	2322.3	1525.5	1286.0	1104.4	1001.0	1013.6	1021.2	1006.1	1003.6
65°	10479.4	6084.4	1984.4	1361.6	1195.2	1033.8	938.0	970.8	991.0	991.0	985.9
67.5°	8500.0	4672.4	1671.8	1220.4	1081.7	938.0	867.4	892.6	907.7	902.7	915.3
70°	6041.5	3164.5	1361.6	1059.0	938.0	829.6	776.6	776.6	766.5	761.5	761.5
72.5°	2930.0	1807.9	1104.4	885.1	799.3	708.5	665.7	648.0	627.9	625.3	612.7
73°	2448.4	1621.3	1054.0	852.3	766.5	690.9	643.0	615.2	602.6	592.6	590.0
75°	1490.2	1230.5	880.0	718.6	653.1	595.1	552.2	527.0	514.4	506.8	504.3
77.5°	980.9	917.8	683.3	549.7	499.3	464.0	446.3	421.1	413.5	403.4	403.4
80°	731.2	701.0	489.2	388.3	358.1	327.8	322.8	317.7	297.5	284.9	279.9
82.5°	471.5	499.3	332.8	259.7	226.9	201.7	204.2	211.8	191.6	174.0	168.9
85°	335.4	360.6	201.7	118.5	95.8	83.2	93.3	83.2	85.7	68.1	55.5
87.5°	55.5	95.8	35.3	15.1	7.6	5.0	0.0	0.0	0.0	0.0	0.0
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)