

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: P456291

Luminaire Tested: **GALN-SA7C-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456291
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-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 47932 lumens
Efficiency: N/A
Efficacy: 127.1 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

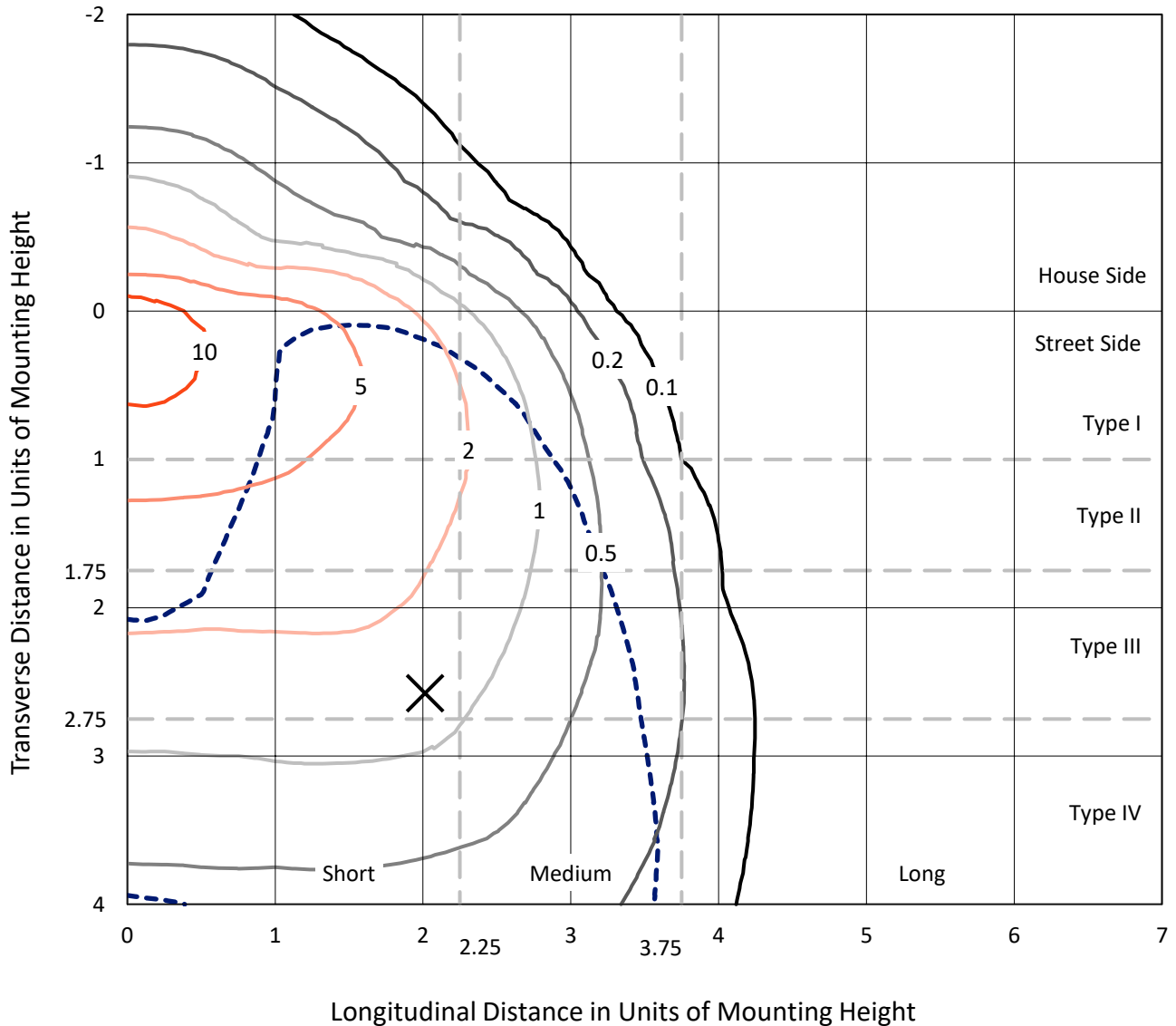
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

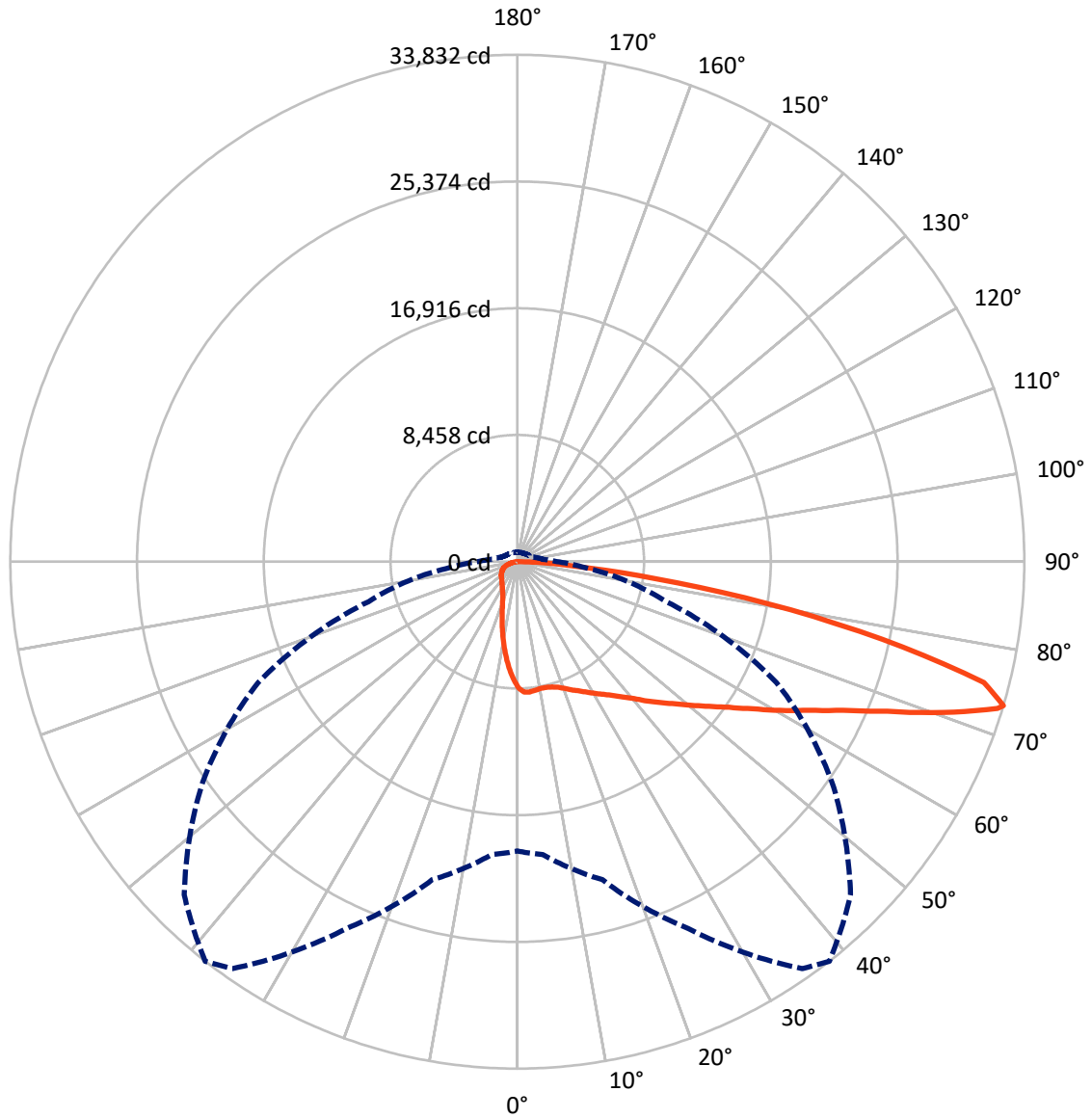
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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	6443.5	0.0	6443.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	41488.5	0.0	41488.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	47932.0	0.0	47932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.0	1.5
10°-20°	1884.9	3.9
20°-30°	2935.2	6.1
30°-40°	4305.2	9.0
40°-50°	6386.3	13.3
50°-60°	9048.1	18.9
60°-70°	11477.7	23.9
70°-80°	9554.4	19.9
80°-90°	1605.3	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°	47932.0	100.0
0°-180°	47932.0	100.0

Coefficient of Utilization



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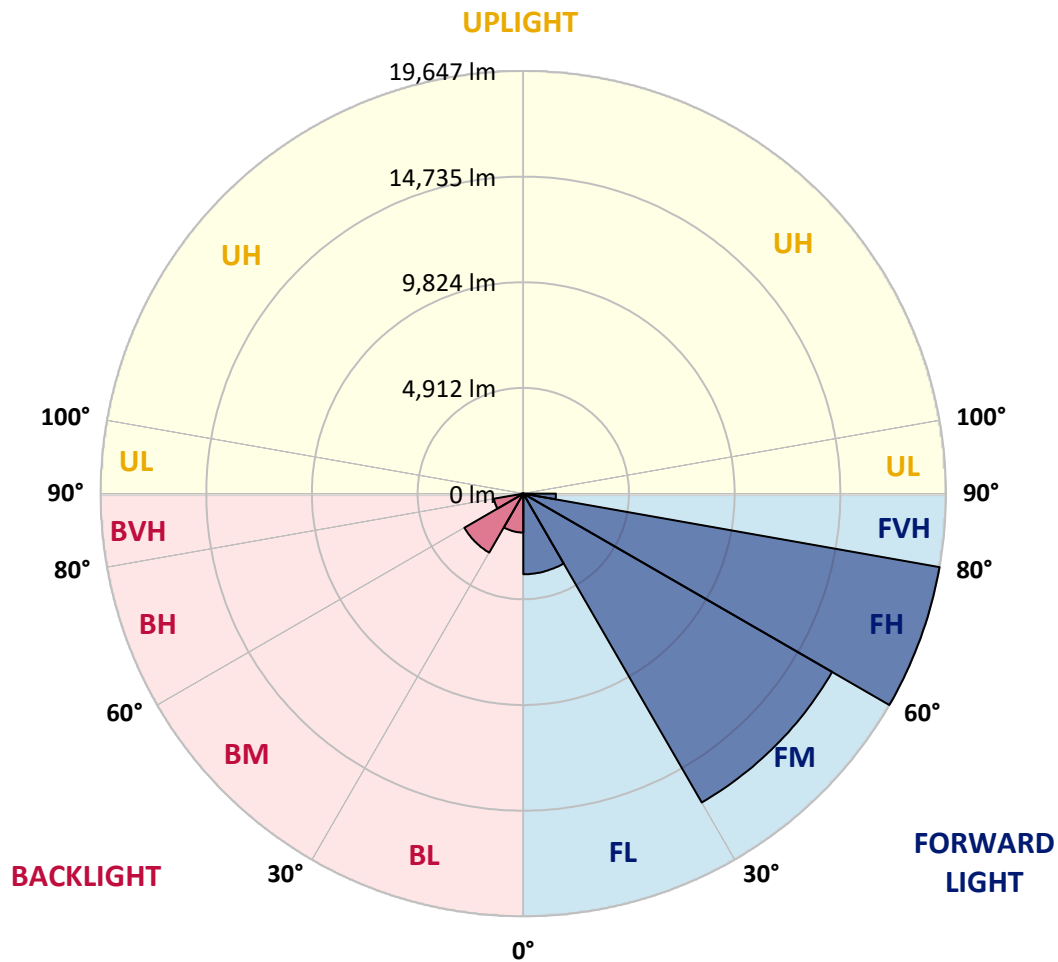
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3747.0	7.8			
FM	(30°-60°)	16576.2	34.6			
FH	(60°-80°)	19647.1	41.0			G5
FVH	(80°-90°)	1518.2	3.2			G5
BL	(0°-30°)	1808.1	3.8	B3/2500		
BM	(30°-60°)	3163.4	6.6	B3/5000		
BH	(60°-80°)	1385.0	2.9	B3/2500		G3/2500
BVH	(80°-90°)	87.1	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°	8420.8	8420.8	8420.8	8420.8	8420.8	8420.8	8420.8	8420.8	8420.8	8420.8	8420.8
2.5°	8759.2	8802.5	8780.8	8751.1	8732.1	8713.2	8686.1	8607.6	8545.4	8477.7	8372.1
5°	8824.2	8851.2	8832.3	8794.4	8751.1	8732.1	8680.7	8577.8	8477.7	8364.0	8207.0
7.5°	8786.3	8797.1	8775.4	8729.4	8691.5	8656.3	8596.8	8483.1	8361.3	8223.2	8017.5
10°	8650.9	8691.5	8691.5	8653.6	8615.7	8596.8	8537.2	8429.0	8318.0	8161.0	7917.4
12.5°	8539.9	8583.2	8618.4	8607.6	8604.9	8604.9	8558.9	8477.7	8347.8	8198.9	7909.3
15°	8464.1	8515.6	8591.4	8634.7	8661.7	8669.9	8650.9	8580.5	8447.9	8274.7	7941.7
17.5°	8447.9	8510.2	8648.2	8742.9	8813.3	8810.6	8805.2	8707.8	8561.6	8382.9	7982.3
20°	8521.0	8602.2	8794.4	8943.3	9046.1	9027.2	8997.4	8870.2	8699.6	8499.3	8020.2
22.5°	8740.2	8824.2	9035.3	9197.7	9297.8	9297.8	9208.5	9040.7	8859.3	8634.7	8071.7
25°	9054.2	9146.3	9370.9	9536.0	9582.1	9546.9	9457.5	9254.5	9046.1	8829.6	8179.9
27.5°	9438.6	9549.6	9758.0	9896.0	9882.5	9855.4	9763.4	9503.6	9295.1	9097.5	8364.0
30°	9917.7	9998.9	10215.4	10247.9	10199.2	10193.8	10063.9	9804.0	9609.1	9457.5	8626.6
32.5°	10369.7	10442.8	10616.1	10629.6	10543.0	10553.8	10432.0	10193.8	10082.8	10028.7	9067.8
35°	10848.8	10886.7	11035.6	11019.4	10962.5	10954.4	10905.7	10678.3	10713.5	10810.9	9693.0
37.5°	11249.4	11325.2	11409.1	11422.7	11420.0	11447.0	11479.5	11371.2	11574.3	11880.1	10513.2
40°	11617.6	11682.5	11807.0	11850.3	11955.9	12010.1	12121.0	12123.7	12592.0	13095.5	11522.8
42.5°	11866.6	11977.6	12210.4	12288.9	12546.0	12708.4	12873.5	13049.5	13728.9	14375.8	12713.8
45°	12083.1	12229.3	12616.4	12860.0	13209.2	13406.8	13755.9	14124.1	15101.2	15948.4	13923.8
47.5°	12410.7	12540.6	12984.5	13414.9	13942.7	14170.1	14692.5	15242.0	16519.6	17448.0	15082.3
50°	12865.4	12943.9	13395.9	14097.0	14771.0	15063.3	15753.5	16546.6	18035.4	18928.6	16100.0
52.5°	13447.4	13479.8	13839.8	14773.7	15661.5	16024.2	16939.1	17864.8	19361.7	20214.3	16906.6
55°	14134.9	14080.7	14362.3	15491.0	16679.3	17153.0	18135.5	19199.3	20853.2	21253.8	17494.0
57.5°	14814.3	14730.4	14955.0	16362.6	17935.2	18506.4	19651.3	20574.4	22184.9	22225.5	17905.5
60°	15534.3	15472.0	15740.0	17385.7	19475.4	20152.1	21210.4	22000.8	23473.3	22902.2	17970.4
62.5°	16273.3	16173.1	16554.8	18536.1	21210.4	21824.9	22850.8	23516.6	24737.4	23153.9	17345.1
65°	16990.6	16944.5	17534.6	19903.1	23186.4	23884.8	24880.9	25332.9	25749.7	22775.0	15794.2
67.5°	17753.9	17845.9	18787.9	21727.4	25763.3	26640.3	27714.9	27289.9	26039.4	20980.4	13301.2
70°	18917.8	18977.3	20433.6	24117.5	29084.5	30142.9	30662.6	27985.6	24642.7	17572.5	9998.9
72.5°	19418.5	19681.1	21903.4	26626.7	32857.8	33504.7	31653.3	26434.6	20528.3	11937.0	5253.9
73°	19307.6	19621.6	21971.1	27008.4	33152.8	33832.2	31442.1	25636.1	19082.9	10280.4	4504.1
75°	17924.4	18311.5	21091.3	26689.0	32579.0	32173.0	28047.8	21849.3	12895.2	4674.6	2051.8
77.5°	14143.0	14254.0	16711.8	21551.5	25655.0	24902.5	20991.2	13655.8	5267.4	1737.8	1163.9
80°	7094.5	7503.2	9419.6	12345.7	17155.7	16909.3	13249.8	6458.4	2195.2	1020.5	771.4
82.5°	3413.3	3702.9	4588.0	6019.9	9479.2	9254.5	6561.3	3529.7	1394.0	595.5	454.7
85°	2197.9	2414.5	2920.6	2871.9	3897.8	3721.8	2947.7	2671.6	825.6	311.3	316.7
87.5°	1450.8	1588.9	1905.6	1523.9	1418.4	1283.0	1302.0	1505.0	162.4	119.1	43.3
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°	8420.8	8420.8	8420.8	8420.8	8420.8	8420.8	8420.8	8420.8	8420.8	8420.8	8420.8
2.5°	8328.8	8293.6	8177.2	8063.5	7955.3	7852.4	7784.7	7695.4	7635.9	7652.1	7676.5
5°	8120.4	8041.9	7836.2	7635.9	7446.4	7221.7	7040.4	6894.2	6783.2	6742.6	6734.5
7.5°	7901.1	7768.5	7473.5	7129.7	6807.6	6528.8	6206.7	6047.0	5860.2	5795.2	5773.6
10°	7768.5	7589.9	7175.7	6696.6	6212.1	5749.2	5400.1	5115.8	4858.7	4810.0	4785.6
12.5°	7730.6	7495.1	6937.5	6320.4	5676.1	5107.7	4590.7	4217.2	3968.2	3911.3	3827.4
15°	7709.0	7416.6	6715.6	5941.4	5124.0	4431.0	3887.0	3451.2	3223.8	3072.2	3074.9
17.5°	7690.0	7327.3	6466.5	5527.3	4647.6	3849.1	3248.2	2855.7	2647.2	2566.0	2557.9
20°	7662.9	7221.7	6179.6	5091.5	4103.5	3318.5	2774.5	2482.1	2341.4	2273.7	2271.0
22.5°	7652.1	7118.9	5898.1	4647.6	3621.7	2909.8	2460.5	2254.8	2165.4	2119.4	2119.4
25°	7679.2	7045.8	5603.1	4225.3	3194.0	2560.6	2243.9	2103.2	2051.8	2027.4	2019.3
27.5°	7763.1	7013.3	5310.7	3803.0	2801.5	2322.4	2097.8	2000.3	1962.4	1943.5	1946.2
30°	7922.8	7010.6	5023.8	3386.2	2509.2	2141.1	1981.4	1913.7	1883.9	1873.1	1870.4
32.5°	8179.9	7070.1	4742.3	3042.4	2262.9	1989.5	1873.1	1824.4	1810.8	1802.7	1800.0
35°	8615.7	7238.0	4463.5	2728.4	2073.4	1854.2	1770.2	1745.9	1726.9	1735.1	1737.8
37.5°	9203.1	7527.6	4198.2	2482.1	1929.9	1754.0	1683.6	1662.0	1651.1	1659.3	1667.4
40°	9990.8	7944.4	3976.3	2284.5	1827.1	1670.1	1607.8	1588.9	1578.1	1591.6	1594.3
42.5°	10859.7	8426.3	3792.2	2130.2	1743.2	1599.7	1540.2	1518.5	1510.4	1518.5	1521.2
45°	11752.9	8986.6	3697.5	2019.3	1672.8	1548.3	1486.0	1461.7	1442.7	1437.3	1445.4
47.5°	12632.6	9473.8	3694.8	1951.6	1616.0	1502.3	1434.6	1407.5	1383.2	1369.6	1366.9
50°	13349.9	9860.9	3759.7	1921.8	1567.2	1450.8	1383.2	1356.1	1323.6	1296.6	1302.0
52.5°	13891.3	10112.6	3789.5	1908.3	1540.2	1396.7	1329.0	1304.7	1266.8	1231.6	1231.6
55°	14240.4	10172.1	3716.4	1894.8	1518.5	1339.9	1266.8	1245.1	1207.2	1172.0	1172.0
57.5°	14359.5	9988.1	3453.9	1862.3	1496.9	1291.1	1204.5	1185.6	1155.8	1120.6	1115.2
60°	14083.5	9365.5	2993.7	1764.8	1453.5	1239.7	1136.9	1128.7	1117.9	1088.1	1085.4
62.5°	13019.7	8044.6	2493.0	1637.6	1380.5	1185.6	1074.6	1088.1	1096.3	1080.0	1077.3
65°	11249.4	6531.5	2130.2	1461.7	1283.0	1109.8	1006.9	1042.1	1063.8	1063.8	1058.4
67.5°	9124.6	5015.7	1794.6	1310.1	1161.2	1006.9	931.1	958.2	974.4	969.0	982.6
70°	6485.5	3397.0	1461.7	1136.9	1006.9	890.5	833.7	833.7	822.9	817.5	817.5
72.5°	3145.3	1940.8	1185.6	950.1	858.1	760.6	714.6	695.6	674.0	671.3	657.8
73°	2628.3	1740.5	1131.4	914.9	822.9	741.7	690.2	660.5	646.9	636.1	633.4
75°	1599.7	1320.9	944.7	771.4	701.1	638.8	592.8	565.7	552.2	544.1	541.4
77.5°	1052.9	985.3	733.5	590.1	535.9	498.1	479.1	452.0	443.9	433.1	433.1
80°	785.0	752.5	525.1	416.8	384.4	351.9	346.5	341.1	319.4	305.9	300.5
82.5°	506.2	535.9	357.3	278.8	243.6	216.5	219.3	227.4	205.7	186.8	181.4
85°	360.0	387.1	216.5	127.2	102.9	89.3	100.2	89.3	92.0	73.1	59.5
87.5°	59.5	102.9	37.9	16.2	8.1	5.4	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)