

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: P458089

Luminaire Tested: **GALN-SA9C-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458089
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-SA9C-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 52174 lumens
Efficiency: N/A
Efficacy: 108.5 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

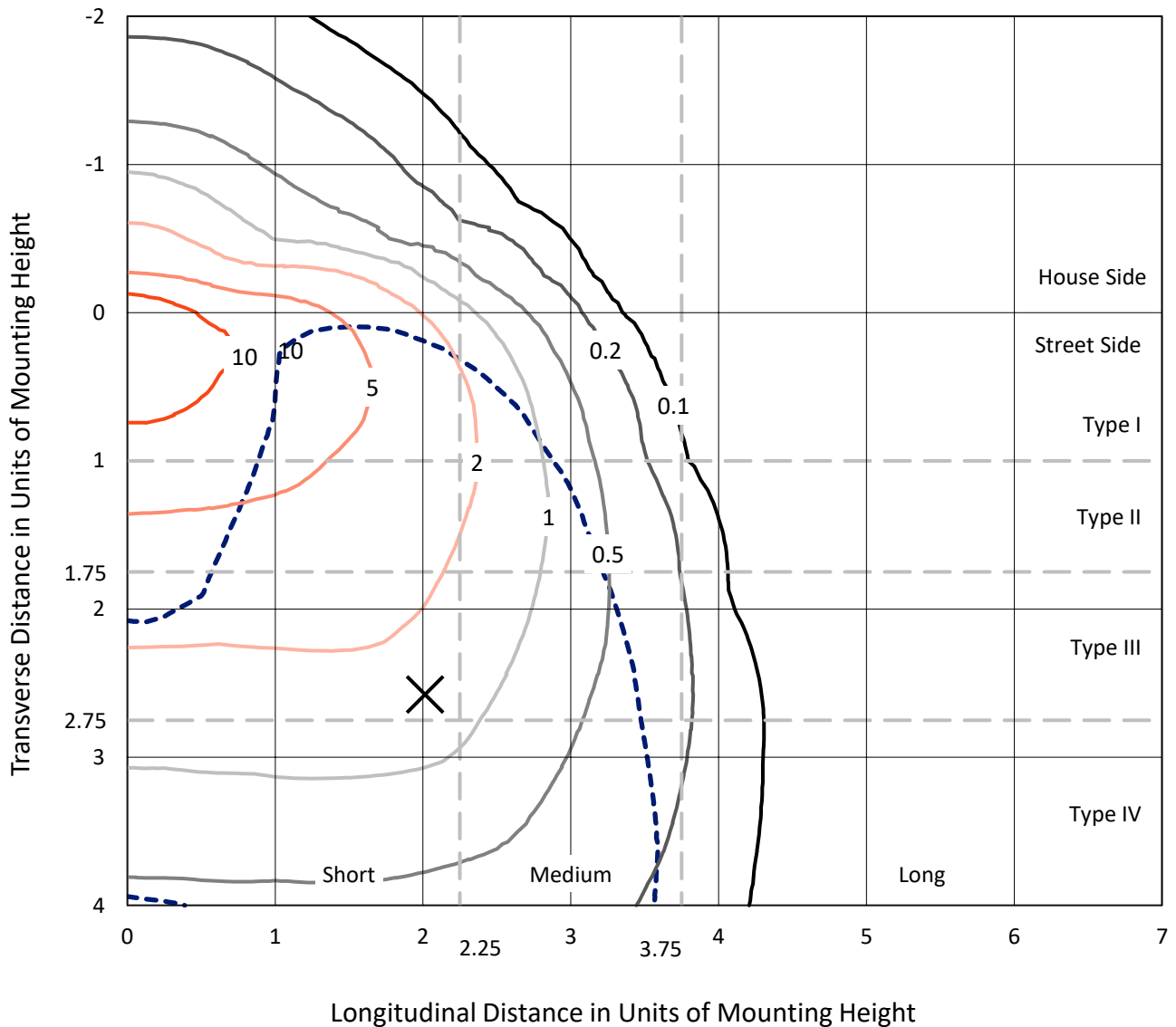
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

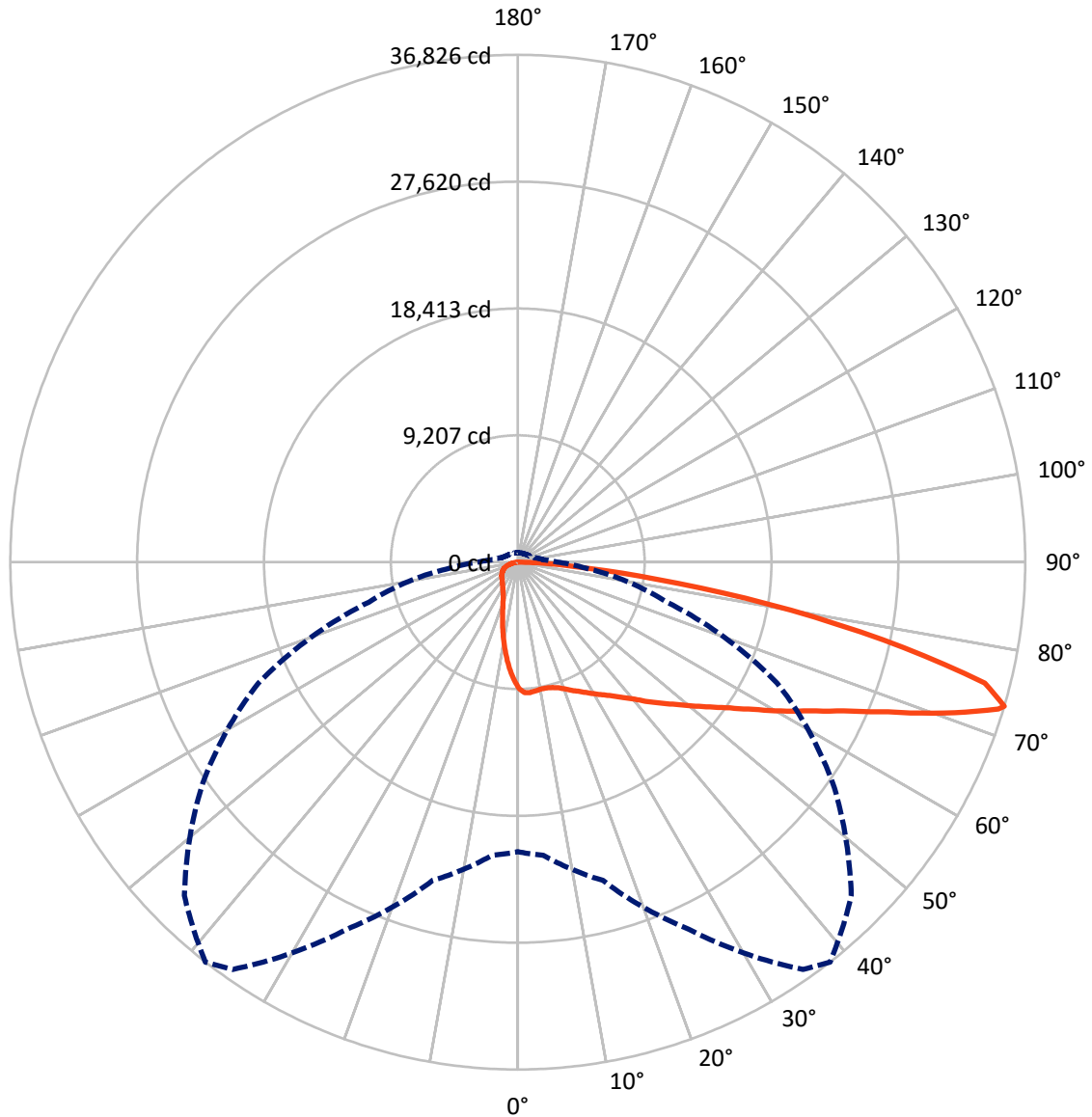
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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	7013.7	0.0	7013.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	45160.3	0.0	45160.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	52174.0	0.0	52174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.1	1.5
10°-20°	2051.7	3.9
20°-30°	3194.9	6.1
30°-40°	4686.2	9.0
40°-50°	6951.4	13.3
50°-60°	9848.8	18.9
60°-70°	12493.5	23.9
70°-80°	10399.9	19.9
80°-90°	1747.3	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°	52174.0	100.0
0°-180°	52174.0	100.0

Coefficient of Utilization



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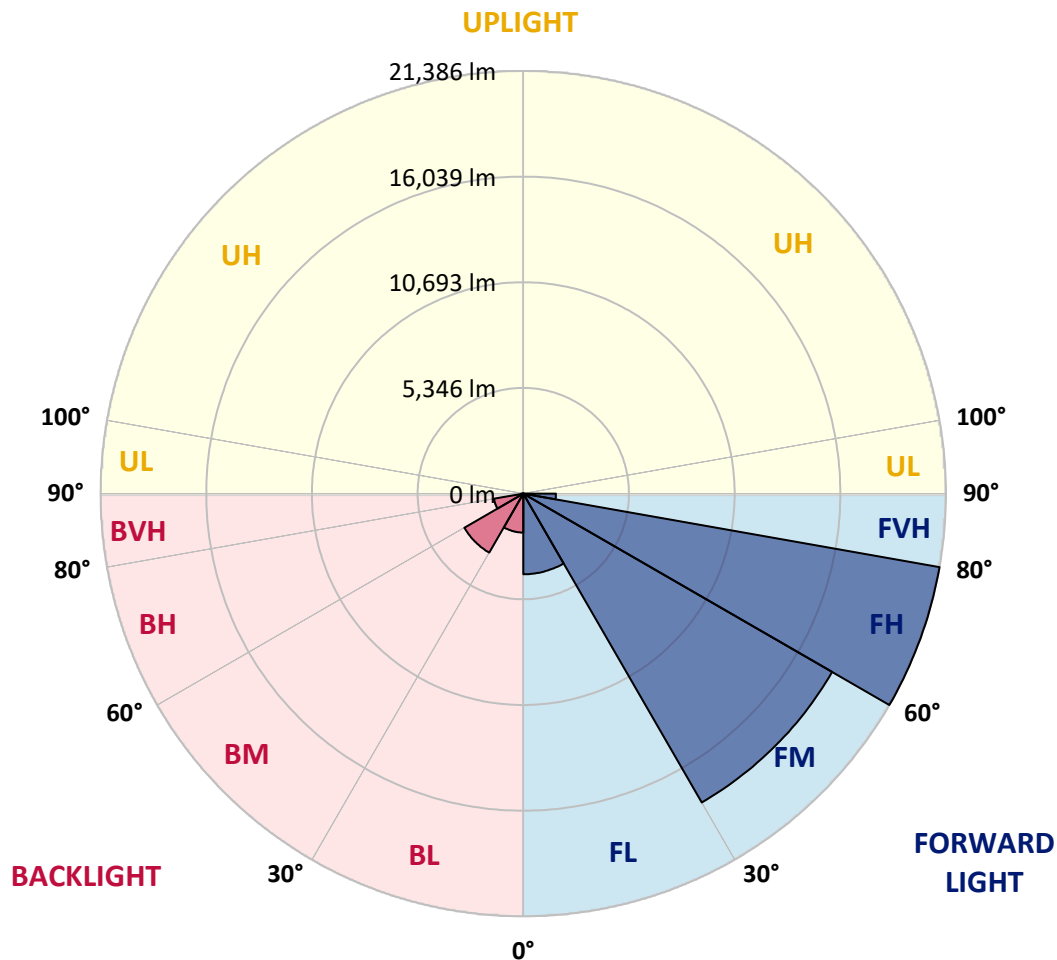
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4078.6	7.8			
FM	(30°-60°)	18043.2	34.6			
FH	(60°-80°)	21385.9	41.0			G5
FVH	(80°-90°)	1652.6	3.2			G5
BL	(0°-30°)	1968.1	3.8	B3/2500		
BM	(30°-60°)	3443.3	6.6	B3/5000		
BH	(60°-80°)	1507.5	2.9	B3/2500		G3/2500
BVH	(80°-90°)	94.8	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°	9166.1	9166.1	9166.1	9166.1	9166.1	9166.1	9166.1	9166.1	9166.1	9166.1	9166.1
2.5°	9534.4	9581.5	9558.0	9525.5	9504.9	9484.3	9454.8	9369.4	9301.6	9228.0	9113.1
5°	9605.1	9634.6	9613.9	9572.7	9525.5	9504.9	9448.9	9337.0	9228.0	9104.2	8933.3
7.5°	9563.8	9575.6	9552.1	9502.0	9460.7	9422.4	9357.6	9233.9	9101.3	8951.0	8727.1
10°	9416.5	9460.7	9460.7	9419.5	9378.2	9357.6	9292.8	9174.9	9054.1	8883.2	8618.1
12.5°	9295.7	9342.9	9381.2	9369.4	9366.4	9366.4	9316.4	9228.0	9086.5	8924.5	8609.2
15°	9213.2	9269.2	9351.7	9398.8	9428.3	9437.2	9416.5	9339.9	9195.6	9007.0	8644.6
17.5°	9195.6	9263.3	9413.6	9516.7	9593.3	9590.4	9584.5	9478.4	9319.3	9124.8	8688.8
20°	9275.1	9363.5	9572.7	9734.7	9846.7	9826.1	9793.7	9655.2	9469.6	9251.5	8730.0
22.5°	9513.8	9605.1	9834.9	10011.7	10120.7	10120.7	10023.5	9840.8	9643.4	9398.8	8786.0
25°	9855.5	9955.7	10200.3	10380.0	10430.1	10391.8	10294.5	10073.6	9846.7	9611.0	8903.9
27.5°	10273.9	10394.7	10621.6	10771.8	10757.1	10727.7	10627.5	10344.6	10117.8	9902.7	9104.2
30°	10795.4	10883.8	11119.5	11154.9	11101.8	11095.9	10954.5	10671.7	10459.5	10294.5	9390.0
32.5°	11287.5	11367.0	11555.6	11570.3	11476.0	11487.8	11355.2	11095.9	10975.1	10916.2	9870.3
35°	11809.0	11850.2	12012.3	11994.6	11932.7	11923.9	11870.8	11623.3	11661.6	11767.7	10550.9
37.5°	12245.0	12327.5	12418.9	12433.6	12430.6	12460.1	12495.5	12377.6	12598.6	12931.5	11443.6
40°	12645.7	12716.4	12852.0	12899.1	13014.0	13072.9	13193.7	13196.7	13706.4	14254.4	12542.6
42.5°	12916.8	13037.6	13291.0	13376.4	13656.3	13833.1	14012.8	14204.3	14943.9	15648.1	13839.0
45°	13152.5	13311.6	13732.9	13998.1	14378.2	14593.3	14973.3	15374.0	16437.7	17359.9	15156.0
47.5°	13509.0	13650.4	14133.6	14602.1	15176.6	15424.1	15992.8	16590.9	17981.6	18992.2	16417.0
50°	14004.0	14089.4	14581.5	15344.6	16078.2	16396.4	17147.7	18011.0	19631.5	20603.8	17524.9
52.5°	14637.5	14672.8	15064.7	16081.2	17047.6	17442.4	18438.2	19445.9	21075.2	22003.3	18402.9
55°	15385.8	15326.9	15633.3	16861.9	18155.4	18671.0	19740.5	20898.4	22698.7	23134.7	19042.2
57.5°	16125.4	16034.0	16278.6	17810.7	19522.5	20144.2	21390.5	22395.2	24148.3	24192.5	19490.1
60°	16909.1	16841.3	17133.0	18924.4	21199.0	21935.6	23087.6	23947.9	25550.7	24929.0	19560.8
62.5°	17713.4	17604.4	18019.9	20176.6	23087.6	23756.4	24873.1	25597.9	26926.7	25203.1	18880.2
65°	18494.2	18444.1	19086.4	21664.5	25238.4	25998.6	27082.8	27574.9	28028.6	24790.6	17191.9
67.5°	19325.1	19425.3	20450.6	23650.3	28043.3	28998.0	30167.7	29705.1	28343.9	22837.1	14478.4
70°	20592.0	20656.8	22242.0	26252.0	31658.5	32810.5	33376.2	30462.3	26823.5	19127.7	10883.8
72.5°	21137.1	21422.9	23841.8	28983.2	35765.7	36469.9	34454.6	28774.0	22345.1	12993.4	5718.9
73°	21016.3	21358.1	23915.5	29398.7	36086.9	36826.4	34224.8	27904.9	20771.8	11190.2	4902.7
75°	19510.7	19932.0	22957.9	29051.0	35462.2	35020.3	30530.1	23782.9	14036.4	5088.3	2233.3
77.5°	15394.7	15515.5	18190.8	23458.8	27925.5	27106.4	22848.9	14864.3	5733.6	1891.6	1266.9
80°	7722.4	8167.3	10253.3	13438.3	18674.0	18405.8	14422.4	7030.0	2389.5	1110.8	839.7
82.5°	3715.3	4030.6	4994.1	6552.7	10318.1	10073.6	7141.9	3842.0	1517.4	648.2	495.0
85°	2392.4	2628.1	3179.1	3126.1	4242.7	4051.2	3208.6	2908.0	898.6	338.8	344.7
87.5°	1579.2	1729.5	2074.2	1658.8	1543.9	1396.6	1417.2	1638.2	176.8	129.6	47.1
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°	9166.1	9166.1	9166.1	9166.1	9166.1	9166.1	9166.1	9166.1	9166.1	9166.1	9166.1
2.5°	9065.9	9027.6	8900.9	8777.2	8659.3	8547.4	8473.7	8376.5	8311.6	8329.3	8355.8
5°	8839.0	8753.6	8529.7	8311.6	8105.4	7860.9	7663.5	7504.3	7383.5	7339.4	7330.5
7.5°	8600.4	8456.0	8134.9	7760.7	7410.1	7106.6	6756.0	6582.1	6378.8	6308.1	6284.6
10°	8456.0	8261.6	7810.8	7289.3	6761.9	6258.0	5878.0	5568.6	5288.7	5235.7	5209.1
12.5°	8414.8	8158.4	7551.5	6879.7	6178.5	5559.8	4997.0	4590.4	4319.3	4257.5	4166.1
15°	8391.2	8073.0	7309.9	6467.2	5577.4	4823.2	4231.0	3756.6	3509.1	3344.1	3347.1
17.5°	8370.6	7975.8	7038.8	6016.4	5058.9	4189.7	3535.6	3108.4	2881.5	2793.1	2784.3
20°	8341.1	7860.9	6726.5	5542.1	4466.7	3612.2	3020.0	2701.8	2548.6	2474.9	2472.0
22.5°	8329.3	7748.9	6420.1	5058.9	3942.2	3167.3	2678.2	2454.3	2357.1	2307.0	2307.0
25°	8358.8	7669.3	6098.9	4599.2	3476.7	2787.2	2442.5	2289.3	2233.3	2206.8	2198.0
27.5°	8450.1	7634.0	5780.7	4139.6	3049.5	2528.0	2283.4	2177.4	2136.1	2115.5	2118.4
30°	8624.0	7631.0	5468.4	3685.9	2731.3	2330.6	2156.7	2083.1	2050.7	2038.9	2035.9
32.5°	8903.9	7695.9	5162.0	3311.7	2463.1	2165.6	2038.9	1985.8	1971.1	1962.3	1959.3
35°	9378.2	7878.5	4858.5	2969.9	2256.9	2018.2	1926.9	1900.4	1879.8	1888.6	1891.6
37.5°	10017.6	8193.8	4569.8	2701.8	2100.7	1909.2	1832.6	1809.1	1797.3	1806.1	1815.0
40°	10875.0	8647.5	4328.2	2486.7	1988.8	1817.9	1750.1	1729.5	1717.7	1732.5	1735.4
42.5°	11820.7	9172.0	4127.8	2318.8	1897.4	1741.3	1676.5	1652.9	1644.1	1652.9	1655.8
45°	12793.0	9781.9	4024.7	2198.0	1820.8	1685.3	1617.5	1591.0	1570.4	1564.5	1573.3
47.5°	13750.6	10312.2	4021.8	2124.3	1759.0	1635.2	1561.6	1532.1	1505.6	1490.9	1487.9
50°	14531.4	10733.5	4092.5	2091.9	1705.9	1579.2	1505.6	1476.1	1440.8	1411.3	1417.2
52.5°	15120.7	11007.6	4124.9	2077.2	1676.5	1520.3	1446.7	1420.1	1378.9	1340.6	1340.6
55°	15500.7	11072.4	4045.3	2062.4	1652.9	1458.4	1378.9	1355.3	1314.1	1275.8	1275.8
57.5°	15630.4	10872.0	3759.5	2027.1	1629.3	1405.4	1311.1	1290.5	1258.1	1219.8	1213.9
60°	15329.8	10194.4	3258.7	1921.0	1582.2	1349.4	1237.5	1228.6	1216.8	1184.4	1181.5
62.5°	14171.9	8756.5	2713.6	1782.5	1502.6	1290.5	1169.7	1184.4	1193.3	1175.6	1172.6
65°	12245.0	7109.5	2318.8	1591.0	1396.6	1208.0	1096.0	1134.3	1157.9	1157.9	1152.0
67.5°	9932.1	5459.6	1953.4	1426.0	1264.0	1096.0	1013.5	1043.0	1060.7	1054.8	1069.5
70°	7059.4	3697.7	1591.0	1237.5	1096.0	969.3	907.5	907.5	895.7	889.8	889.8
72.5°	3423.7	2112.5	1290.5	1034.2	934.0	827.9	777.8	757.2	733.6	730.7	716.0
73°	2860.9	1894.5	1231.6	995.9	895.7	807.3	751.3	718.9	704.2	692.4	689.4
75°	1741.3	1437.8	1028.3	839.7	763.1	695.3	645.3	615.8	601.1	592.2	589.3
77.5°	1146.1	1072.5	798.5	642.3	583.4	542.1	521.5	492.0	483.2	471.4	471.4
80°	854.4	819.1	571.6	453.7	418.4	383.0	377.1	371.2	347.7	332.9	327.0
82.5°	551.0	583.4	388.9	303.5	265.2	235.7	238.7	247.5	223.9	203.3	197.4
85°	391.9	421.3	235.7	138.5	112.0	97.2	109.0	97.2	100.2	79.6	64.8
87.5°	64.8	112.0	41.2	17.7	8.8	5.9	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)