

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: P459481

Luminaire Tested: **GALN-SA9B-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459481
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-SA9B-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA 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: 47037 lumens
Efficiency: N/A
Efficacy: 129.2 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

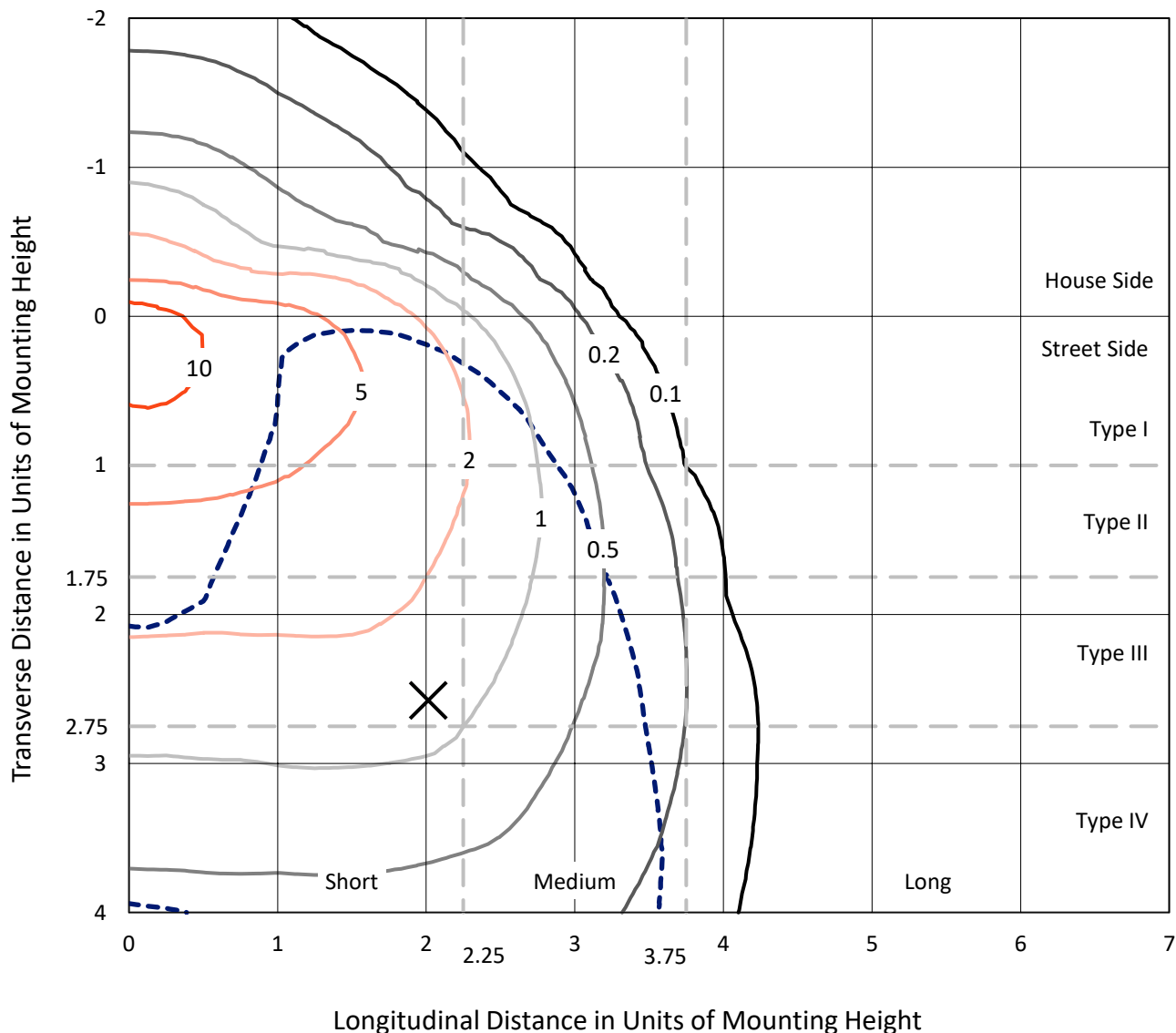
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

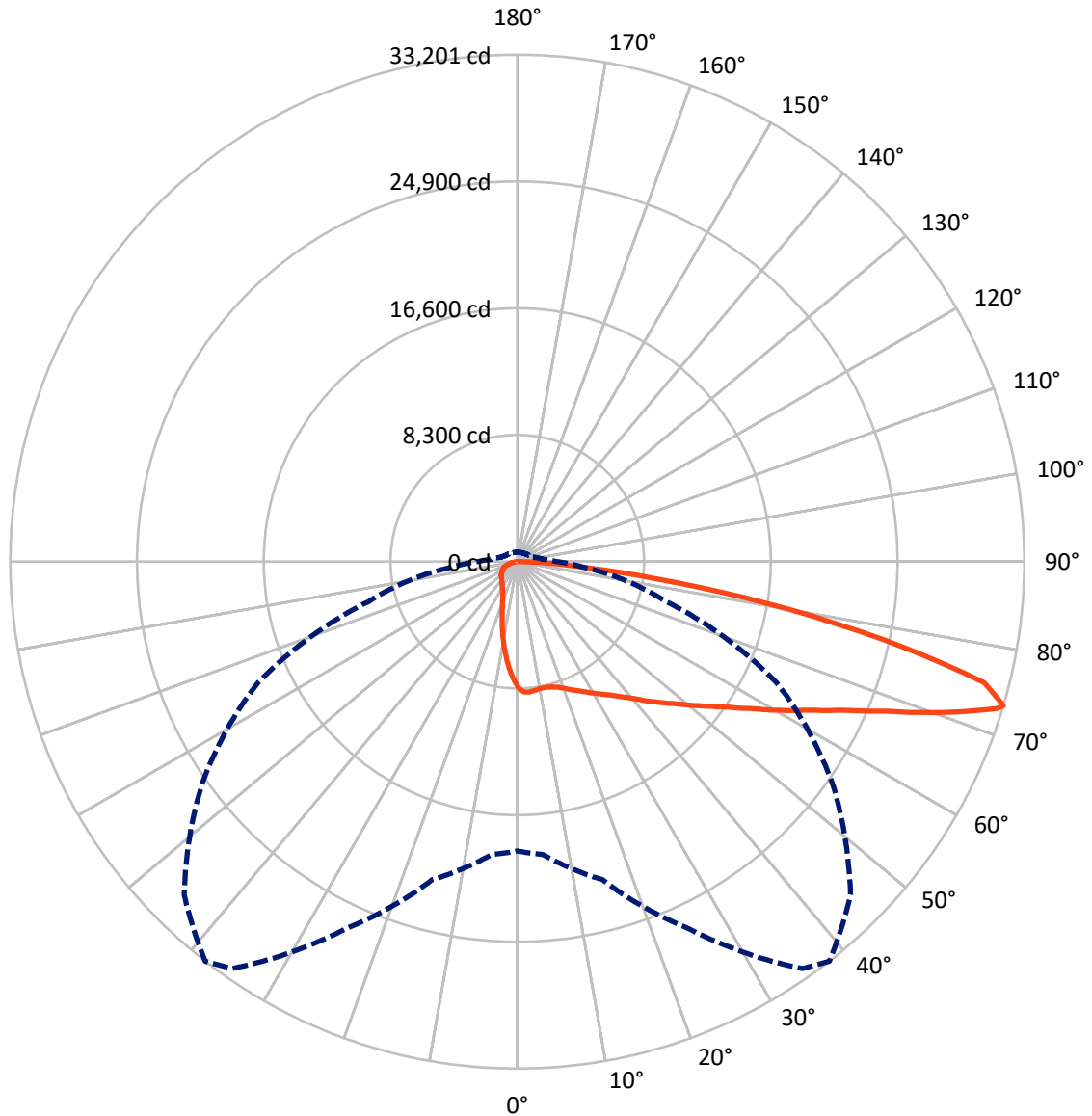
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	6323.2	0.0	6323.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	40713.8	0.0	40713.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	47037.0	0.0	47037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.3	1.5
10°-20°	1849.7	3.9
20°-30°	2880.4	6.1
30°-40°	4224.8	9.0
40°-50°	6267.0	13.3
50°-60°	8879.1	18.9
60°-70°	11263.4	23.9
70°-80°	9375.9	19.9
80°-90°	1575.3	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°	47037.0	100.0
0°-180°	47037.0	100.0

Coefficient of Utilization



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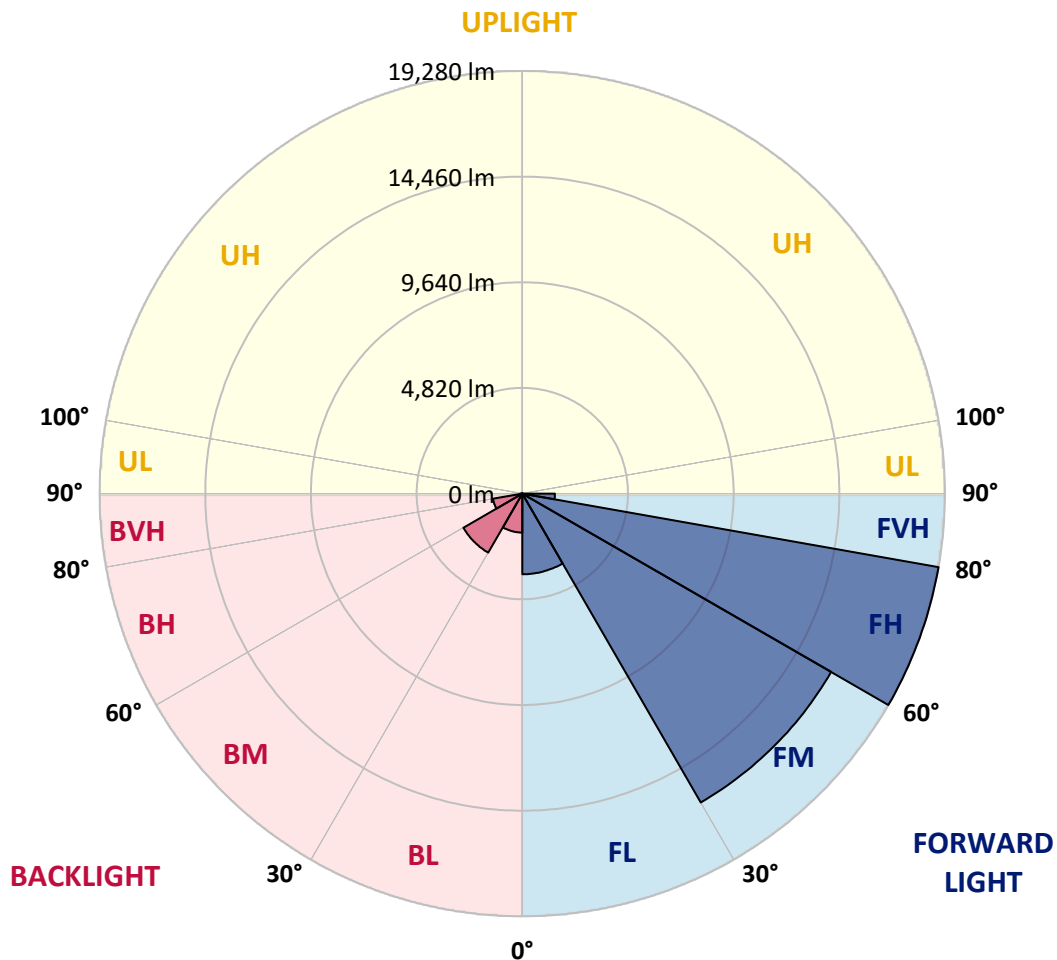
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3677.0	7.8			
FM	(30°-60°)	16266.7	34.6			
FH	(60°-80°)	19280.3	41.0			G5
FVH	(80°-90°)	1489.9	3.2			G5
BL	(0°-30°)	1774.3	3.8	B3/2500		
BM	(30°-60°)	3104.3	6.6	B3/5000		
BH	(60°-80°)	1359.1	2.9	B3/2500		G3/2500
BVH	(80°-90°)	85.4	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°	8263.6	8263.6	8263.6	8263.6	8263.6	8263.6	8263.6	8263.6	8263.6	8263.6	8263.6
2.5°	8595.6	8638.1	8616.9	8587.7	8569.1	8550.5	8523.9	8446.9	8385.8	8319.4	8215.8
5°	8659.4	8685.9	8667.4	8630.2	8587.7	8569.1	8518.6	8417.7	8319.4	8207.8	8053.8
7.5°	8622.2	8632.8	8611.6	8566.4	8529.2	8494.7	8436.3	8324.7	8205.2	8069.7	7867.8
10°	8489.4	8529.2	8529.2	8492.0	8454.9	8436.3	8377.8	8271.6	8162.7	8008.6	7769.5
12.5°	8380.5	8423.0	8457.5	8446.9	8444.2	8444.2	8399.1	8319.4	8191.9	8045.8	7761.6
15°	8306.1	8356.6	8430.9	8473.4	8500.0	8508.0	8489.4	8420.3	8290.2	8120.2	7793.4
17.5°	8290.2	8351.3	8486.7	8579.7	8648.8	8646.1	8640.8	8545.2	8401.7	8226.4	7833.3
20°	8361.9	8441.6	8630.2	8776.3	8877.2	8858.6	8829.4	8704.5	8537.2	8340.6	7870.5
22.5°	8577.0	8659.4	8866.6	9025.9	9124.2	9124.2	9036.6	8871.9	8693.9	8473.4	7920.9
25°	8885.2	8975.5	9195.9	9358.0	9403.1	9368.6	9280.9	9081.7	8877.2	8664.7	8027.2
27.5°	9262.4	9371.3	9575.8	9711.3	9698.0	9671.4	9581.1	9326.1	9121.6	8927.7	8207.8
30°	9732.5	9812.2	10024.7	10056.6	10008.8	10003.4	9875.9	9620.9	9429.7	9280.9	8465.5
32.5°	10176.1	10247.8	10417.8	10431.1	10346.1	10356.7	10237.2	10003.4	9894.5	9841.4	8898.4
35°	10646.3	10683.5	10829.5	10813.6	10757.8	10749.9	10702.0	10478.9	10513.5	10609.1	9512.0
37.5°	11039.4	11113.8	11196.1	11209.4	11206.7	11233.3	11265.2	11158.9	11358.1	11658.3	10316.9
40°	11400.6	11464.4	11586.6	11629.1	11732.7	11785.8	11894.7	11897.4	12356.9	12851.0	11307.7
42.5°	11645.0	11753.9	11982.4	12059.4	12311.7	12471.1	12633.1	12805.8	13472.5	14107.4	12476.4
45°	11857.5	12001.0	12380.8	12619.9	12962.5	13156.4	13499.1	13860.3	14819.2	15650.6	13663.8
47.5°	12178.9	12306.4	12742.0	13164.4	13682.4	13905.5	14418.1	14957.4	16211.1	17122.2	14800.6
50°	12625.2	12702.2	13145.8	13833.8	14495.2	14782.0	15459.4	16237.7	17698.6	18575.2	15799.4
52.5°	13196.3	13228.1	13581.4	14497.8	15369.1	15725.0	16622.8	17531.3	19000.2	19836.9	16591.0
55°	13871.0	13817.8	14094.1	15201.7	16367.8	16832.7	17796.9	18840.8	20463.8	20856.9	17167.4
57.5°	14537.7	14455.3	14675.8	16057.1	17600.3	18160.8	19284.4	20190.2	21770.7	21810.5	17571.1
60°	15244.2	15183.1	15446.1	17061.1	19111.7	19775.8	20814.4	21590.0	23035.0	22474.6	17634.9
62.5°	15969.4	15871.1	16245.6	18190.0	20814.4	21417.4	22424.1	23077.5	24275.5	22721.6	17021.3
65°	16673.3	16628.1	17207.2	19531.4	22753.5	23438.8	24416.3	24859.9	25268.9	22349.7	15499.2
67.5°	17422.4	17512.7	18437.1	21321.7	25282.2	26142.8	27197.4	26780.3	25553.2	20588.6	13052.8
70°	18564.6	18623.0	20052.1	23667.2	28541.4	29580.0	30090.0	27463.0	24182.5	17244.4	9812.2
72.5°	19056.0	19313.6	21494.4	26129.6	32244.3	32879.1	31062.2	25941.0	20145.0	11714.1	5155.8
73°	18947.1	19255.2	21560.8	26504.1	32533.8	33200.5	30855.0	25157.4	18726.6	10088.4	4420.0
75°	17589.7	17969.6	20697.5	26190.7	31970.7	31572.2	27524.1	21441.3	12654.4	4587.3	2013.4
77.5°	13878.9	13987.8	16399.7	21149.1	25176.0	24437.5	20599.2	13400.8	5169.1	1705.3	1142.2
80°	6962.0	7363.1	9243.8	12115.2	16835.3	16593.6	13002.4	6337.8	2154.2	1001.4	757.0
82.5°	3349.5	3633.8	4502.3	5907.5	9302.2	9081.7	6438.8	3463.8	1368.0	584.4	446.3
85°	2156.9	2369.4	2866.1	2818.3	3825.0	3652.3	2892.7	2621.7	810.2	305.5	310.8
87.5°	1423.8	1559.2	1870.0	1495.5	1391.9	1259.1	1277.7	1476.9	159.4	116.9	42.5
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°	8263.6	8263.6	8263.6	8263.6	8263.6	8263.6	8263.6	8263.6	8263.6	8263.6	8263.6
2.5°	8173.3	8138.8	8024.5	7913.0	7806.7	7705.8	7639.4	7551.7	7493.3	7509.2	7533.1
5°	7968.8	7891.7	7689.9	7493.3	7307.4	7086.9	6908.9	6765.5	6656.6	6616.7	6608.8
7.5°	7753.6	7623.4	7333.9	6996.6	6680.5	6406.9	6090.8	5934.1	5750.8	5687.0	5665.8
10°	7623.4	7448.1	7041.7	6571.6	6096.1	5641.9	5299.2	5020.3	4768.0	4720.2	4696.3
12.5°	7586.3	7355.2	6808.0	6202.4	5570.2	5012.3	4505.0	4138.4	3894.1	3838.3	3755.9
15°	7565.0	7278.1	6590.2	5830.5	5028.3	4348.3	3814.4	3386.7	3163.6	3014.8	3017.5
17.5°	7546.4	7190.5	6345.8	5424.1	4560.8	3777.2	3187.5	2802.3	2597.8	2518.1	2510.2
20°	7519.9	7086.9	6064.2	4996.4	4026.9	3256.6	2722.7	2435.8	2297.7	2231.3	2228.6
22.5°	7509.2	6985.9	5788.0	4560.8	3554.1	2855.5	2414.5	2212.7	2125.0	2079.8	2079.8
25°	7535.8	6914.2	5498.4	4146.4	3134.4	2512.8	2202.0	2063.9	2013.4	1989.5	1981.6
27.5°	7618.1	6882.4	5211.6	3732.0	2749.2	2279.1	2058.6	1963.0	1925.8	1907.2	1909.8
30°	7774.9	6879.7	4930.0	3323.0	2462.3	2101.1	1944.4	1878.0	1848.8	1838.1	1835.5
32.5°	8027.2	6938.1	4653.8	2985.6	2220.6	1952.3	1838.1	1790.3	1777.0	1769.1	1766.4
35°	8454.9	7102.8	4380.2	2677.5	2034.7	1819.5	1737.2	1713.3	1694.7	1702.7	1705.3
37.5°	9031.3	7387.0	4119.8	2435.8	1893.9	1721.3	1652.2	1630.9	1620.3	1628.3	1636.3
40°	9804.2	7796.1	3902.0	2241.9	1793.0	1638.9	1577.8	1559.2	1548.6	1561.9	1564.5
42.5°	10656.9	8268.9	3721.4	2090.5	1710.6	1569.8	1511.4	1490.2	1482.2	1490.2	1492.8
45°	11533.5	8818.8	3628.4	1981.6	1641.6	1519.4	1458.3	1434.4	1415.8	1410.5	1418.4
47.5°	12396.7	9296.9	3625.8	1915.2	1585.8	1474.2	1407.8	1381.3	1357.3	1344.1	1341.4
50°	13100.6	9676.7	3689.5	1885.9	1538.0	1423.8	1357.3	1330.8	1298.9	1272.3	1277.7
52.5°	13631.9	9923.8	3718.8	1872.7	1511.4	1370.6	1304.2	1280.3	1243.1	1208.6	1208.6
55°	13974.5	9982.2	3647.0	1859.4	1490.2	1314.8	1243.1	1221.9	1184.7	1150.2	1150.2
57.5°	14091.4	9801.6	3389.4	1827.5	1468.9	1267.0	1182.0	1163.4	1134.2	1099.7	1094.4
60°	13820.5	9190.6	2937.8	1731.9	1426.4	1216.6	1115.6	1107.7	1097.0	1067.8	1065.2
62.5°	12776.6	7894.4	2446.4	1607.0	1354.7	1163.4	1054.5	1067.8	1075.8	1059.8	1057.2
65°	11039.4	6409.5	2090.5	1434.4	1259.1	1089.1	988.1	1022.7	1043.9	1043.9	1038.6
67.5°	8954.2	4922.0	1761.1	1285.6	1139.5	988.1	913.8	940.3	956.3	950.9	964.2
70°	6364.4	3333.6	1434.4	1115.6	988.1	873.9	818.1	818.1	807.5	802.2	802.2
72.5°	3086.6	1904.5	1163.4	932.3	842.0	746.4	701.3	682.7	661.4	658.8	645.5
73°	2579.2	1708.0	1110.3	897.8	807.5	727.8	677.3	648.1	634.8	624.2	621.6
75°	1569.8	1296.3	927.0	757.0	688.0	626.9	581.7	555.2	541.9	533.9	531.3
77.5°	1033.3	966.9	719.8	579.1	525.9	488.8	470.2	443.6	435.6	425.0	425.0
80°	770.3	738.4	515.3	409.1	377.2	345.3	340.0	334.7	313.4	300.2	294.8
82.5°	496.7	525.9	350.6	273.6	239.1	212.5	215.2	223.1	201.9	183.3	178.0
85°	353.3	379.8	212.5	124.8	100.9	87.7	98.3	87.7	90.3	71.7	58.4
87.5°	58.4	100.9	37.2	15.9	8.0	5.3	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)