

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: P459450

Luminaire Tested: **GALN-SA9A-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38279 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

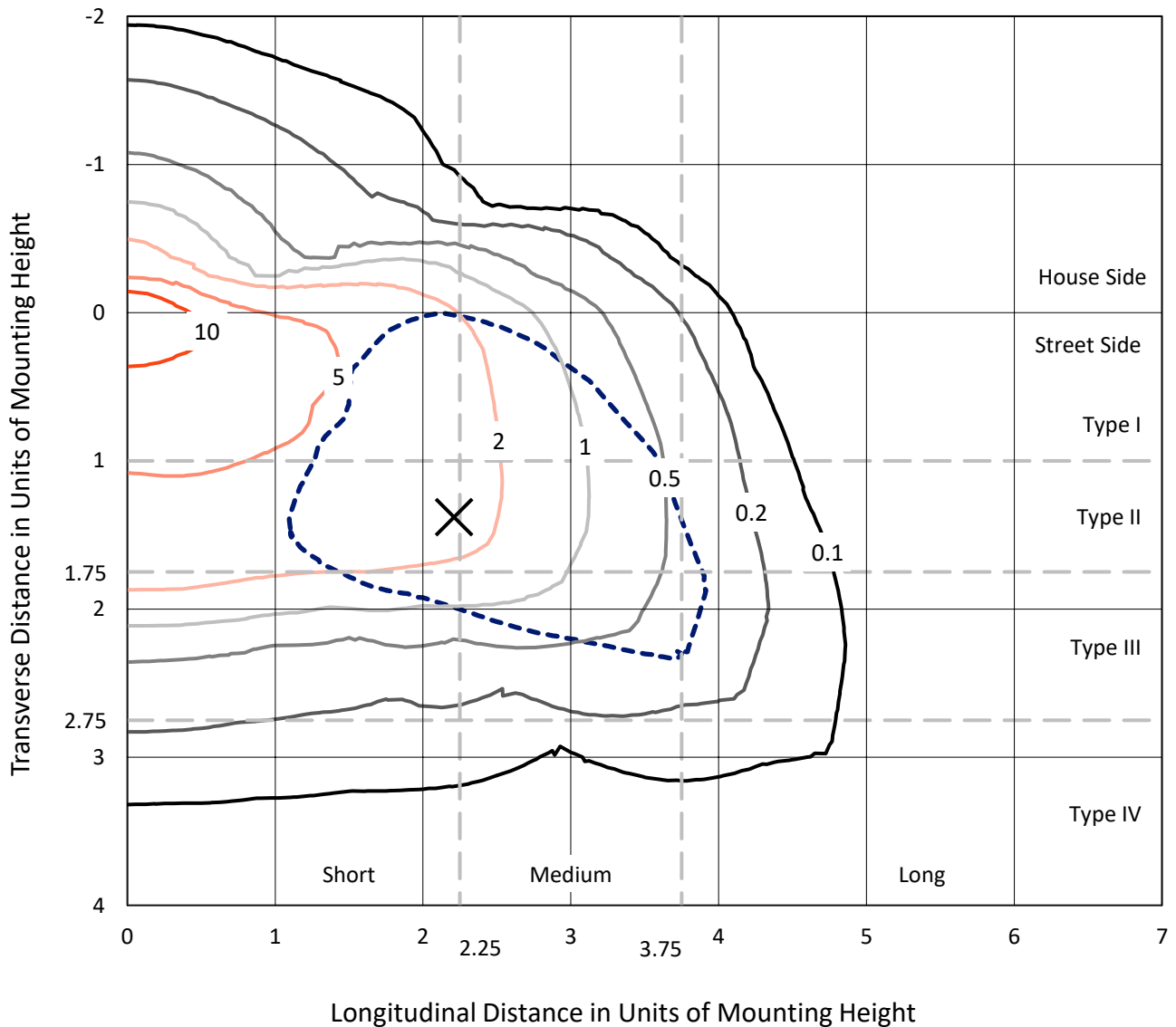
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

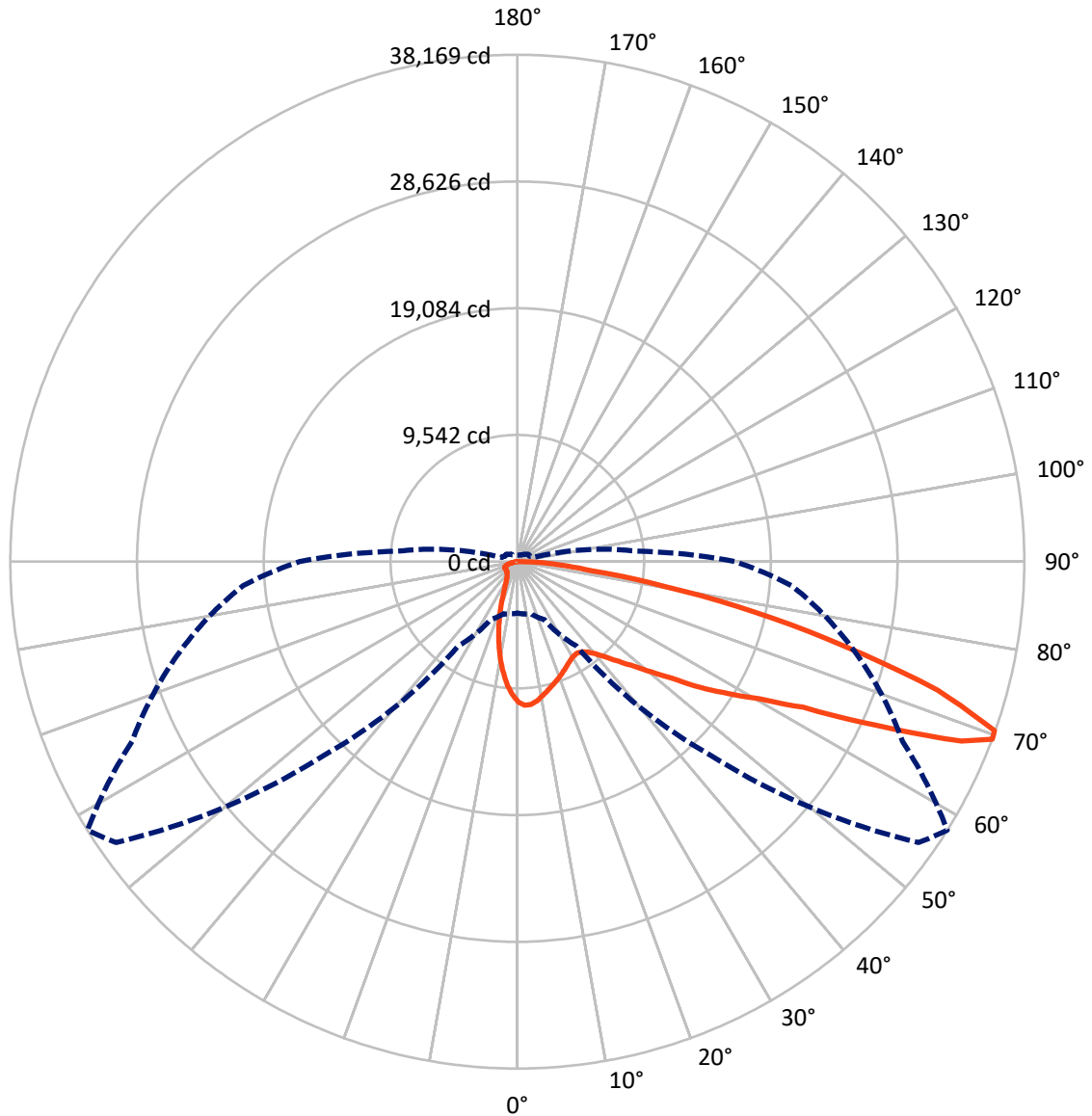
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5609.8	0.0	5609.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32669.2	0.0	32669.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	38279.0	0.0	38279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	898.3	2.3
10°-20°	1972.6	5.2
20°-30°	2548.6	6.7
30°-40°	3310.2	8.6
40°-50°	4812.5	12.6
50°-60°	7679.2	20.1
60°-70°	10258.4	26.8
70°-80°	5913.5	15.4
80°-90°	885.7	2.3
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°	38279.0	100.0
0°-180°	38279.0	100.0

Coefficient of Utilization



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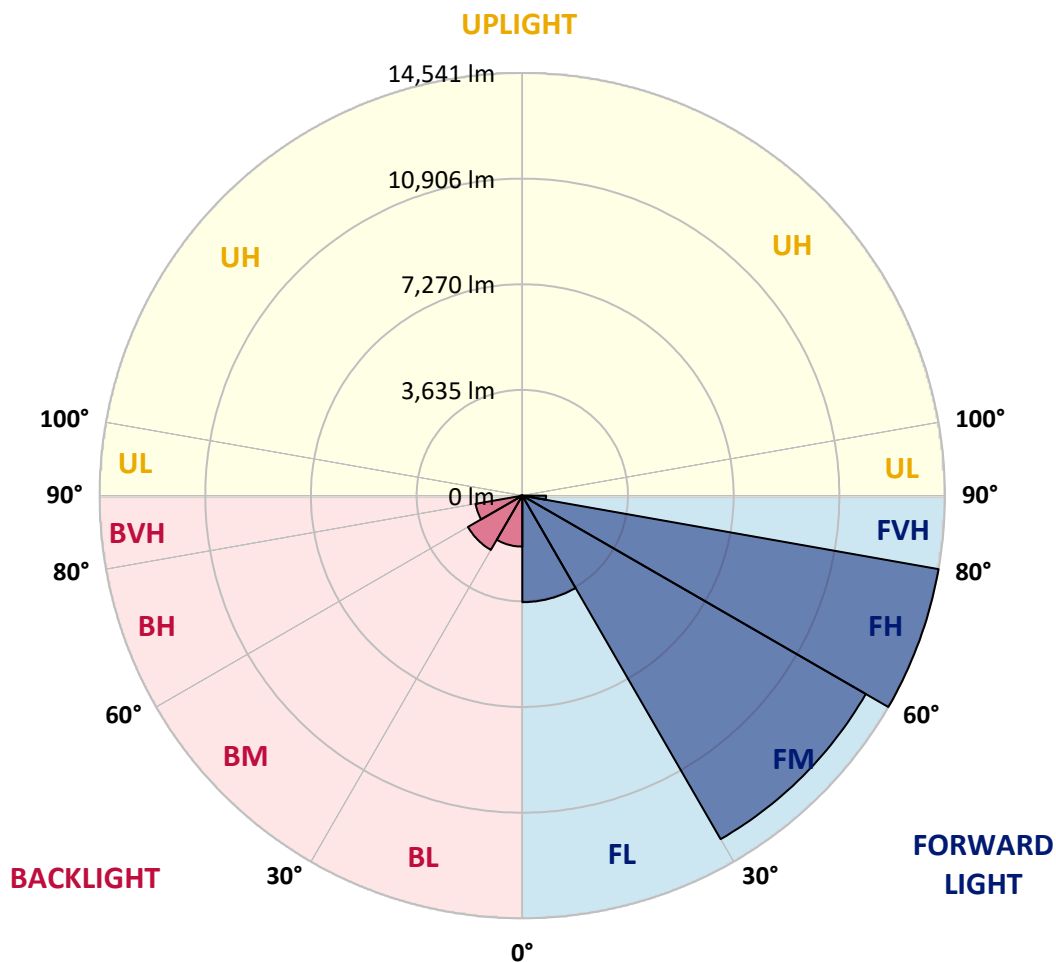
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3666.2	9.6			
FM	(30°-60°)	13644.5	35.6			
FH	(60°-80°)	14540.7	38.0			G5
FVH	(80°-90°)	817.9	2.1			G5
BL	(0°-30°)	1753.4	4.6	B3/2500		
BM	(30°-60°)	2157.3	5.6	B2/2500		
BH	(60°-80°)	1631.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	67.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10578.1	10578.1	10578.1	10578.1	10578.1	10578.1	10578.1	10578.1	10578.1	10578.1	10578.1
2.5°	10970.9	11000.8	10992.2	10981.6	10964.5	10917.5	10840.7	10827.8	10778.7	10674.1	10543.9
5°	10802.2	10827.8	10830.0	10844.9	10866.3	10857.7	10802.2	10795.8	10723.2	10582.3	10364.6
7.5°	10223.7	10257.9	10332.6	10415.8	10490.5	10561.0	10578.1	10588.7	10543.9	10381.7	10091.3
10°	9572.6	9606.7	9640.9	9764.7	9948.3	10123.4	10268.5	10287.7	10298.4	10149.0	9794.6
12.5°	8851.0	8921.4	8994.0	9177.6	9423.1	9698.5	9954.7	9995.3	10067.9	9954.7	9538.4
15°	8238.3	8310.9	8415.5	8579.9	8876.6	9273.7	9634.5	9700.7	9843.7	9786.1	9299.3
17.5°	7813.5	7839.1	7911.7	8099.5	8419.8	8838.2	9320.7	9453.0	9681.4	9666.5	9094.4
20°	7478.3	7510.3	7555.2	7670.4	8003.5	8445.4	9028.2	9199.0	9508.5	9559.8	8891.6
22.5°	7337.4	7360.9	7354.5	7416.4	7642.7	8086.7	8731.4	8934.3	9354.8	9487.2	8703.7
25°	7345.9	7367.3	7335.3	7320.3	7454.8	7770.8	8421.9	8680.2	9231.0	9438.1	8532.9
27.5°	7489.0	7503.9	7444.1	7384.4	7395.0	7574.4	8165.7	8451.8	9126.4	9459.4	8389.9
30°	7681.1	7708.9	7670.4	7597.9	7518.9	7527.4	8001.3	8283.1	9077.3	9534.1	8321.6
32.5°	7928.8	7954.4	7937.3	7879.7	7777.2	7664.0	7960.8	8221.2	9081.6	9685.7	8306.6
35°	8189.2	8240.4	8268.2	8263.9	8180.7	7984.3	8120.9	8336.5	9184.0	9939.8	8394.1
37.5°	8483.8	8526.5	8646.1	8722.9	8646.1	8417.6	8481.7	8631.1	9410.3	10307.0	8586.3
40°	8769.9	8833.9	9009.0	9248.1	9218.2	9017.5	9032.5	9130.7	9809.5	10853.5	8962.0
42.5°	9068.8	9145.6	9450.9	9805.3	9875.7	9719.9	9760.4	9848.0	10377.4	11611.3	9606.7
45°	9453.0	9544.8	9920.5	10362.5	10640.0	10543.9	10659.2	10701.9	11137.4	12597.6	10456.4
47.5°	9948.3	10055.0	10518.3	11069.1	11461.9	11549.4	11750.1	11724.5	12078.9	13765.4	11558.0
50°	10783.0	10842.8	11280.4	11841.9	12382.0	12776.9	12994.7	13035.3	13246.6	14901.1	12789.8
52.5°	11775.7	11829.1	12145.0	12636.0	13312.8	14149.6	14687.6	14555.3	14606.5	16284.5	14230.8
55°	12892.2	12981.9	13182.6	13509.2	14386.6	15618.4	16698.6	16730.6	16162.8	17608.1	15612.0
57.5°	13756.8	13908.4	14252.1	14717.5	15829.8	17251.5	18703.2	18724.6	17998.7	19021.3	17136.3
60°	13321.3	13500.7	14286.3	15419.9	17723.3	20101.5	21098.5	20976.8	19785.6	20631.0	18995.7
62.5°	11442.7	11474.7	12616.8	14388.7	18306.2	23914.3	24663.7	24149.2	22170.2	22671.9	20885.0
65°	7405.7	7614.9	8520.1	11002.9	16391.2	26030.0	30910.2	29721.1	25513.3	24988.2	22466.9
67.5°	4675.3	4621.9	4997.6	6282.8	11274.0	24166.3	36240.8	36053.0	29885.5	26450.5	22089.1
69°	3876.8	3936.6	4064.7	4816.2	7758.0	20633.1	36870.6	38168.6	32005.3	26335.2	20716.4
70°	3516.1	3543.8	3678.3	4269.7	5986.1	17281.4	35837.4	38111.0	32837.9	25852.8	19721.5
72.5°	2790.2	2788.1	3018.6	3552.4	4474.6	9865.0	29426.5	33087.7	31907.1	23606.9	16295.1
75°	2119.9	2154.0	2408.1	3005.8	4122.4	5390.4	20534.9	25481.3	25483.4	18645.6	10168.2
77.5°	1528.5	1549.9	1846.6	2523.4	3883.3	4370.0	13677.8	18276.3	17181.1	8543.6	3195.8
80°	1001.2	1014.0	1240.3	1998.2	3501.1	4122.4	8110.2	11186.5	8103.8	2267.2	1056.7
82.5°	548.7	612.7	757.9	1293.7	2809.4	3808.5	4929.3	5661.6	3040.0	1009.8	550.8
85°	275.4	292.5	427.0	755.7	1836.0	3151.0	3432.8	3247.1	1569.1	501.7	286.1
87.5°	81.1	102.5	177.2	292.5	745.1	1641.7	1910.7	1714.3	604.2	181.5	59.8
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°	10578.1	10578.1	10578.1	10578.1	10578.1	10578.1	10578.1	10578.1	10578.1	10578.1	10578.1
2.5°	10490.5	10452.1	10281.3	10127.6	9986.7	9837.3	9711.3	9600.3	9611.0	9613.1	9500.0
5°	10251.4	10163.9	9839.4	9536.3	9280.1	8955.6	8678.1	8498.8	8409.1	8289.5	8332.2
7.5°	9927.0	9758.3	9307.9	8804.0	8332.2	7911.7	7454.8	7141.0	6940.3	6746.1	6771.7
10°	9591.8	9320.7	8665.3	7999.2	7388.6	6716.2	6133.4	5633.8	5262.4	5123.6	5031.8
12.5°	9248.1	8891.6	8059.0	7173.0	6329.8	5524.9	4698.8	4162.9	3753.0	3535.3	3563.0
15°	8934.3	8500.9	7427.1	6346.8	5251.7	4293.1	3469.1	2958.9	2672.8	2613.0	2647.2
17.5°	8643.9	8076.1	6835.7	5544.1	4265.4	3219.3	2606.6	2318.4	2203.1	2171.1	2169.0
20°	8345.0	7715.3	6171.8	4685.9	3323.9	2495.6	2139.1	2004.6	1983.3	1996.1	1998.2
22.5°	8041.9	7269.1	5488.6	3834.2	2647.2	2040.9	1870.1	1833.8	1850.9	1880.8	1885.1
25°	7762.2	6876.3	4831.1	3087.0	2113.5	1793.3	1710.0	1710.0	1748.4	1793.3	1795.4
27.5°	7531.7	6496.3	4175.7	2450.8	1769.8	1613.9	1586.2	1601.1	1654.5	1688.6	1690.8
30°	7341.7	6141.9	3556.6	1964.0	1556.3	1470.9	1464.5	1490.1	1528.5	1560.6	1562.7
32.5°	7198.6	5830.2	2978.1	1650.2	1409.0	1362.0	1359.9	1379.1	1400.4	1409.0	1417.5
35°	7143.1	5571.9	2448.6	1451.7	1310.8	1280.9	1280.9	1278.8	1287.3	1291.6	1295.8
37.5°	7188.0	5373.4	2038.8	1323.6	1238.2	1216.9	1204.0	1191.2	1187.0	1187.0	1189.1
40°	7378.0	5268.8	1733.5	1240.3	1187.0	1154.9	1131.5	1116.5	1101.6	1105.8	1110.1
42.5°	7781.4	5288.0	1526.4	1184.8	1142.1	1097.3	1063.1	1046.1	1035.4	1048.2	1046.1
45°	8424.0	5480.1	1394.0	1146.4	1097.3	1039.7	1007.6	990.6	990.6	1009.8	1016.2
47.5°	9322.8	5847.3	1323.6	1116.5	1063.1	994.8	962.8	950.0	954.3	986.3	988.4
50°	10420.1	6485.6	1310.8	1101.6	1046.1	962.8	926.5	913.7	924.4	958.5	962.8
52.5°	11630.5	7307.5	1372.7	1103.7	1031.1	943.6	896.6	877.4	888.1	915.8	924.4
55°	13065.1	8336.5	1532.8	1112.2	1009.8	932.9	875.3	832.6	845.4	864.6	866.7
57.5°	14529.6	9634.5	1814.6	1114.4	992.7	913.7	839.0	783.5	783.5	796.3	802.7
60°	16318.6	11047.7	2186.1	1116.5	994.8	886.0	789.9	728.0	719.4	725.8	728.0
62.5°	18094.8	12230.4	2248.0	1110.1	1016.2	858.2	736.5	672.5	657.5	655.4	651.1
65°	18878.3	12010.5	1842.4	1080.2	1039.7	841.1	693.8	619.1	593.5	584.9	584.9
67.5°	17601.7	10159.6	1385.5	1039.7	1024.7	824.0	653.3	574.3	544.4	527.3	527.3
69°	16401.9	9036.7	1244.6	1011.9	986.3	796.3	627.6	550.8	514.5	495.3	488.9
70°	15475.4	8263.9	1184.8	988.4	950.0	764.3	608.4	533.7	493.1	471.8	467.5
72.5°	12350.0	6483.5	1037.5	898.8	809.1	642.6	540.1	480.3	441.9	418.4	412.0
75°	7117.5	3513.9	860.3	781.3	651.1	499.5	456.9	418.4	388.5	367.2	360.8
77.5°	2190.3	1357.8	623.4	617.0	478.2	386.4	365.1	350.1	328.8	305.3	301.0
80°	922.2	691.7	422.7	416.3	318.1	269.0	262.6	260.4	251.9	232.7	226.3
82.5°	506.0	390.7	294.6	256.2	192.1	155.8	162.2	164.4	158.0	138.8	126.0
85°	247.6	213.5	143.0	115.3	87.5	55.5	53.4	64.0	59.8	42.7	47.0
87.5°	49.1	59.8	38.4	17.1	8.5	0.0	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)