

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: P652118

Luminaire Tested: **GALN-SA9A-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652118
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-SA9A-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA 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: 34127.8 lumens
Efficiency: N/A
Efficacy: 124.6 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

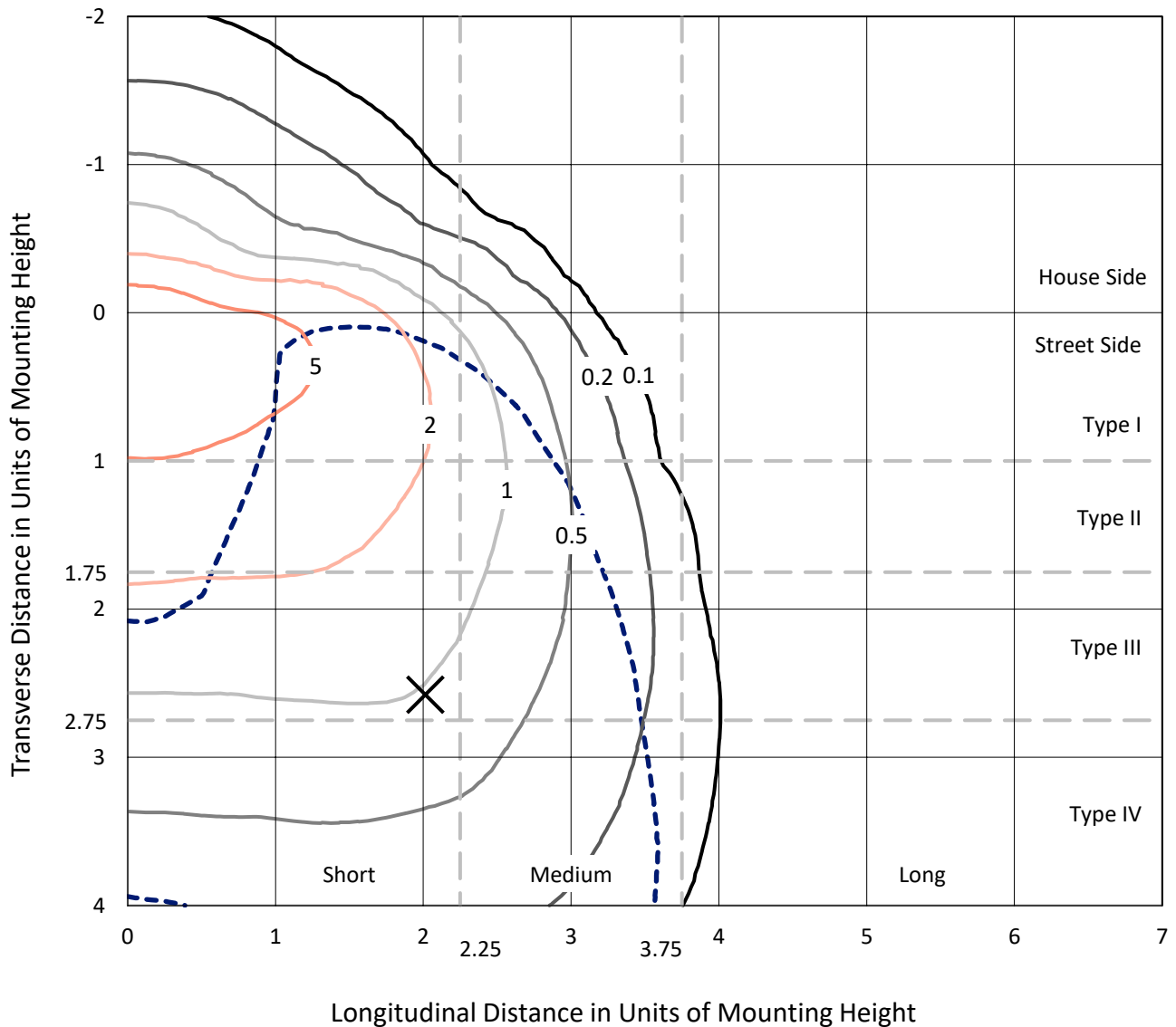
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA9A-840-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

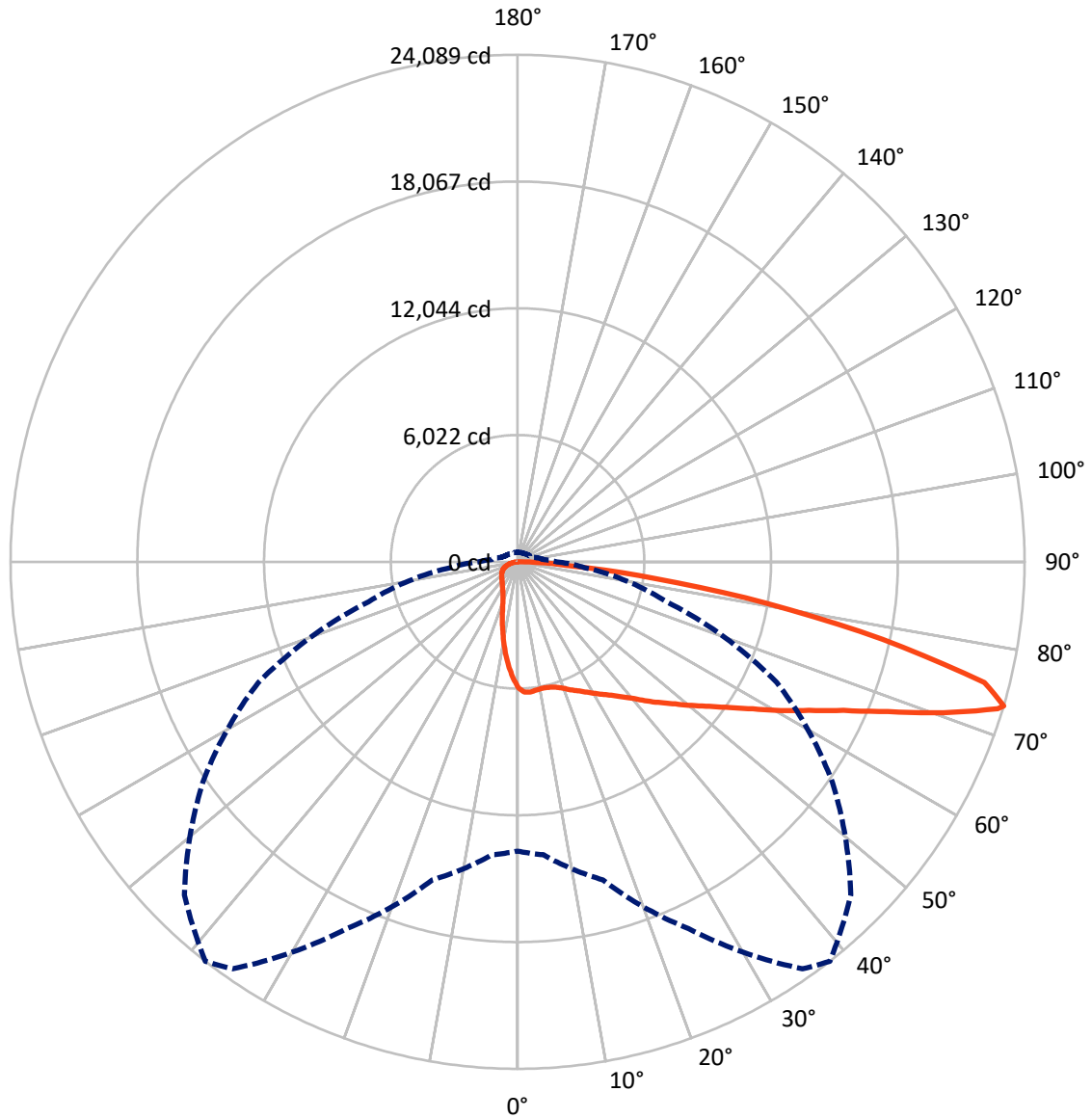
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	4587.8	0.0	4587.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	29540.0	0.0	29540.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	34127.8	0.0	34127.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.3	1.5
10°-20°	1342.1	3.9
20°-30°	2089.8	6.1
30°-40°	3065.3	9.0
40°-50°	4547.0	13.3
50°-60°	6442.3	18.9
60°-70°	8172.2	23.9
70°-80°	6802.7	19.9
80°-90°	1143.0	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°	34127.8	100.0
0°-180°	34127.8	100.0

Coefficient of Utilization



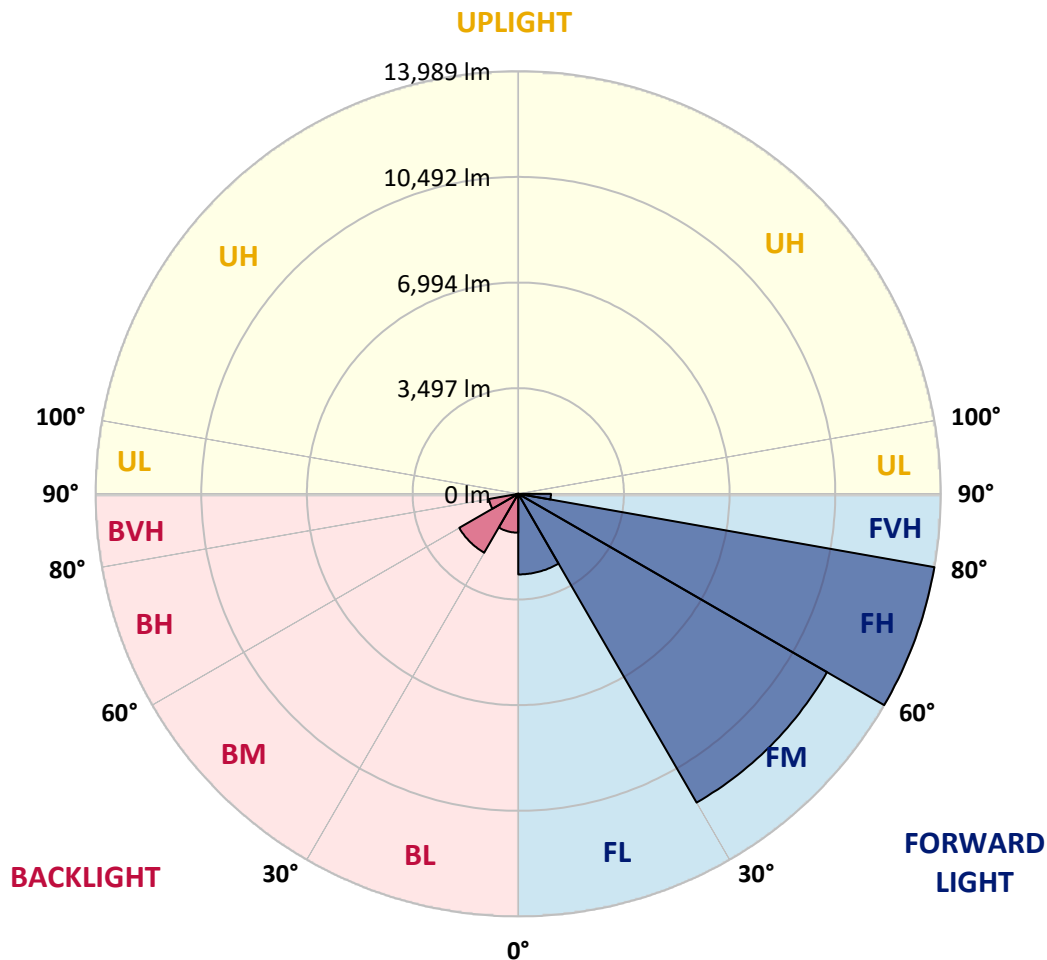
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2667.9	7.8			
FM	(30°-60°)	11802.3	34.6			
FH	(60°-80°)	13988.8	41.0			G5
FVH	(80°-90°)	1081.0	3.2			G5
BL	(0°-30°)	1287.4	3.8	B3/2500		
BM	(30°-60°)	2252.3	6.6	B2/2500		
BH	(60°-80°)	986.1	2.9	B2/1000		G2/1000
BVH	(80°-90°)	62.0	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°	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7
2.5°	6236.6	6267.4	6252.0	6230.8	6217.3	6203.8	6184.5	6128.6	6084.3	6036.1	5961.0
5°	6282.9	6302.1	6288.6	6261.7	6230.8	6217.3	6180.7	6107.4	6036.1	5955.2	5843.4
7.5°	6255.9	6263.6	6248.1	6215.4	6188.4	6163.4	6121.0	6040.0	5953.3	5855.0	5708.5
10°	6159.5	6188.4	6188.4	6161.4	6134.4	6121.0	6078.6	6001.5	5922.4	5810.6	5637.2
12.5°	6080.4	6111.3	6136.4	6128.6	6126.7	6126.7	6094.0	6036.1	5943.6	5837.6	5631.4
15°	6026.5	6063.1	6117.1	6148.0	6167.2	6172.9	6159.5	6109.4	6014.9	5891.6	5654.5
17.5°	6014.9	6059.2	6157.5	6225.0	6275.1	6273.2	6269.3	6199.9	6095.9	5968.7	5683.5
20°	6067.0	6124.8	6261.7	6367.6	6440.9	6427.3	6406.1	6315.6	6194.2	6051.6	5710.5
22.5°	6223.1	6282.9	6433.1	6548.8	6620.1	6620.1	6556.5	6437.0	6307.9	6148.0	5747.1
25°	6446.7	6512.2	6672.2	6789.7	6822.4	6797.4	6733.8	6589.2	6440.9	6286.7	5824.2
27.5°	6720.3	6799.3	6947.8	7046.0	7036.4	7017.1	6951.6	6766.6	6618.2	6477.5	5955.2
30°	7061.5	7119.2	7273.5	7296.6	7261.9	7258.0	7165.5	6980.5	6841.7	6733.8	6142.2
32.5°	7383.3	7435.4	7558.7	7568.3	7506.6	7514.3	7427.6	7258.0	7179.0	7140.4	6456.3
35°	7724.4	7751.4	7857.4	7845.9	7805.3	7799.6	7764.9	7603.0	7628.0	7697.4	6901.5
37.5°	8009.7	8063.6	8123.4	8133.0	8131.0	8150.3	8173.4	8096.4	8241.0	8458.7	7485.4
40°	8271.7	8318.0	8406.6	8437.5	8512.7	8551.2	8630.3	8632.1	8965.6	9324.0	8204.3
42.5°	8449.0	8528.1	8693.8	8749.7	8932.8	9048.4	9166.0	9291.3	9775.0	10235.6	9052.3
45°	8603.3	8707.3	8982.9	9156.4	9405.0	9545.7	9794.3	10056.4	10752.1	11355.4	9913.8
47.5°	8836.5	8929.0	9245.0	9551.5	9927.2	10089.1	10461.1	10852.3	11762.0	12423.1	10738.6
50°	9160.3	9216.1	9537.9	10037.1	10517.0	10725.1	11216.6	11781.3	12841.2	13477.3	11463.3
52.5°	9574.5	9597.7	9854.0	10518.9	11151.1	11409.3	12060.7	12719.9	13785.6	14392.7	12037.6
55°	10064.1	10025.6	10226.0	11029.6	11875.7	12213.0	12912.5	13670.0	14847.5	15132.8	12455.8
57.5°	10547.8	10488.1	10648.1	11650.2	12769.9	13176.6	13991.8	14649.0	15795.7	15824.7	12748.7
60°	11060.5	11016.2	11206.9	12378.8	13866.6	14348.4	15101.9	15664.7	16713.1	16306.5	12795.0
62.5°	11586.6	11515.3	11787.0	13197.8	15101.9	15539.4	16269.8	16744.0	17613.1	16485.7	12349.8
65°	12097.4	12064.6	12484.7	14171.1	16508.8	17006.0	17715.2	18037.1	18333.9	16215.9	11245.5
67.5°	12640.8	12706.3	13377.0	15470.0	18343.6	18968.0	19733.1	19430.5	18540.1	14938.1	9470.5
70°	13469.5	13511.9	14548.8	17171.8	20708.3	21461.8	21831.9	19925.8	17545.7	12511.7	7119.2
72.5°	13826.1	14013.0	15595.3	18958.3	23394.9	23855.5	22537.3	18821.5	14616.2	8499.1	3740.8
73°	13747.1	13970.6	15643.4	19230.1	23604.9	24088.7	22386.9	18253.0	13587.1	7319.7	3206.9
75°	12762.3	13037.9	15017.1	19002.6	23196.4	22907.3	19970.1	15556.7	9181.4	3328.3	1460.8
77.5°	10069.9	10148.9	11898.8	15344.7	18266.4	17730.7	14945.8	9723.0	3750.4	1237.3	828.7
80°	5051.3	5342.4	6706.8	8790.2	12214.9	12039.5	9433.9	4598.4	1563.0	726.5	549.3
82.5°	2430.2	2636.5	3266.7	4286.2	6749.2	6589.2	4671.7	2513.2	992.5	424.0	323.8
85°	1564.9	1719.1	2079.5	2044.8	2775.2	2650.0	2098.8	1902.2	587.8	221.6	225.5
87.5°	1033.0	1131.3	1356.8	1085.1	1009.9	913.5	927.0	1071.5	115.6	84.8	30.9
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°	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7	5995.7
2.5°	5930.1	5905.1	5822.2	5741.3	5664.2	5591.0	5542.8	5479.2	5436.7	5448.3	5465.7
5°	5781.7	5725.9	5579.4	5436.7	5301.8	5141.9	5012.8	4908.7	4829.7	4800.8	4795.0
7.5°	5625.6	5531.2	5321.2	5076.4	4847.0	4648.5	4419.2	4305.5	4172.5	4126.3	4110.8
10°	5531.2	5404.0	5109.2	4768.0	4423.1	4093.5	3844.9	3642.5	3459.5	3424.7	3407.4
12.5°	5504.3	5336.6	4939.5	4500.1	4041.4	3636.7	3268.6	3002.6	2825.3	2784.9	2725.1
15°	5488.8	5280.6	4781.5	4230.3	3648.3	3154.9	2767.6	2457.2	2295.3	2187.4	2189.4
17.5°	5475.3	5217.1	4604.2	3935.5	3309.1	2740.6	2312.7	2033.3	1884.8	1827.1	1821.3
20°	5456.1	5141.9	4399.9	3625.1	2921.7	2362.8	1975.4	1767.3	1667.0	1618.9	1617.0
22.5°	5448.3	5068.7	4199.4	3309.1	2578.7	2071.8	1751.9	1605.4	1541.8	1509.0	1509.0
25°	5467.6	5016.6	3989.4	3008.4	2274.1	1823.2	1597.6	1497.5	1460.8	1443.5	1437.7
27.5°	5527.4	4993.5	3781.3	2707.8	1994.7	1653.6	1493.6	1424.2	1397.2	1383.8	1385.7
30°	5641.1	4991.6	3576.9	2411.0	1786.5	1524.5	1410.8	1362.6	1341.4	1333.7	1331.7
32.5°	5824.2	5034.0	3376.5	2166.2	1611.2	1416.5	1333.7	1298.9	1289.3	1283.5	1281.6
35°	6134.4	5153.5	3178.1	1942.6	1476.3	1320.2	1260.4	1243.1	1229.6	1235.3	1237.3
37.5°	6552.7	5359.7	2989.2	1767.3	1374.1	1248.9	1198.8	1183.4	1175.6	1181.4	1187.2
40°	7113.5	5656.5	2831.1	1626.6	1300.9	1189.1	1144.8	1131.3	1123.6	1133.2	1135.2
42.5°	7732.2	5999.5	2700.1	1516.7	1241.1	1139.0	1096.6	1081.2	1075.4	1081.2	1083.1
45°	8368.1	6398.5	2632.6	1437.7	1191.0	1102.4	1058.1	1040.7	1027.2	1023.3	1029.1
47.5°	8994.5	6745.4	2630.7	1389.6	1150.6	1069.6	1021.5	1002.1	984.8	975.2	973.3
50°	9505.2	7021.0	2677.0	1368.3	1115.8	1033.0	984.8	965.6	942.4	923.2	927.0
52.5°	9890.7	7200.2	2698.2	1358.7	1096.6	994.5	946.3	929.0	902.0	876.9	876.9
55°	10139.3	7242.6	2646.1	1349.0	1081.2	954.0	902.0	886.5	859.6	834.5	834.5
57.5°	10224.0	7111.6	2459.2	1325.9	1065.8	919.3	857.7	844.1	822.9	797.9	794.0
60°	10027.5	6668.3	2131.5	1256.5	1034.9	882.7	809.5	803.7	795.9	774.7	772.8
62.5°	9270.1	5727.8	1775.0	1166.0	982.9	844.1	765.1	774.7	780.5	769.0	767.1
65°	8009.7	4650.5	1516.7	1040.7	913.5	790.2	717.0	742.0	757.4	757.4	753.5
67.5°	6496.7	3571.2	1277.7	932.8	826.8	717.0	663.0	682.2	693.8	690.0	699.6
70°	4617.7	2418.7	1040.7	809.5	717.0	634.0	593.6	593.6	585.9	582.1	582.1
72.5°	2239.5	1381.8	844.1	676.5	610.9	541.5	508.8	495.3	479.9	477.9	468.4
73°	1871.4	1239.2	805.6	651.4	585.9	528.1	491.5	470.3	460.6	452.9	450.9
75°	1139.0	940.5	672.6	549.3	499.1	454.8	422.1	402.8	393.2	387.4	385.4
77.5°	749.7	701.5	522.3	420.2	381.6	354.6	341.1	321.9	316.0	308.4	308.4
80°	558.9	535.8	373.9	296.8	273.7	250.5	246.7	242.8	227.4	217.8	214.0
82.5°	360.4	381.6	254.4	198.5	173.4	154.2	156.1	161.9	146.5	133.0	129.1
85°	256.3	275.6	154.2	90.6	73.3	63.6	71.3	63.6	65.5	52.1	42.4
87.5°	42.4	73.3	27.0	11.5	5.8	3.9	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)