

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: P457074

Luminaire Tested: **GALN-SA8B-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457074
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-SA8B-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 33063 lumens
Efficiency: N/A
Efficacy: 101.7 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

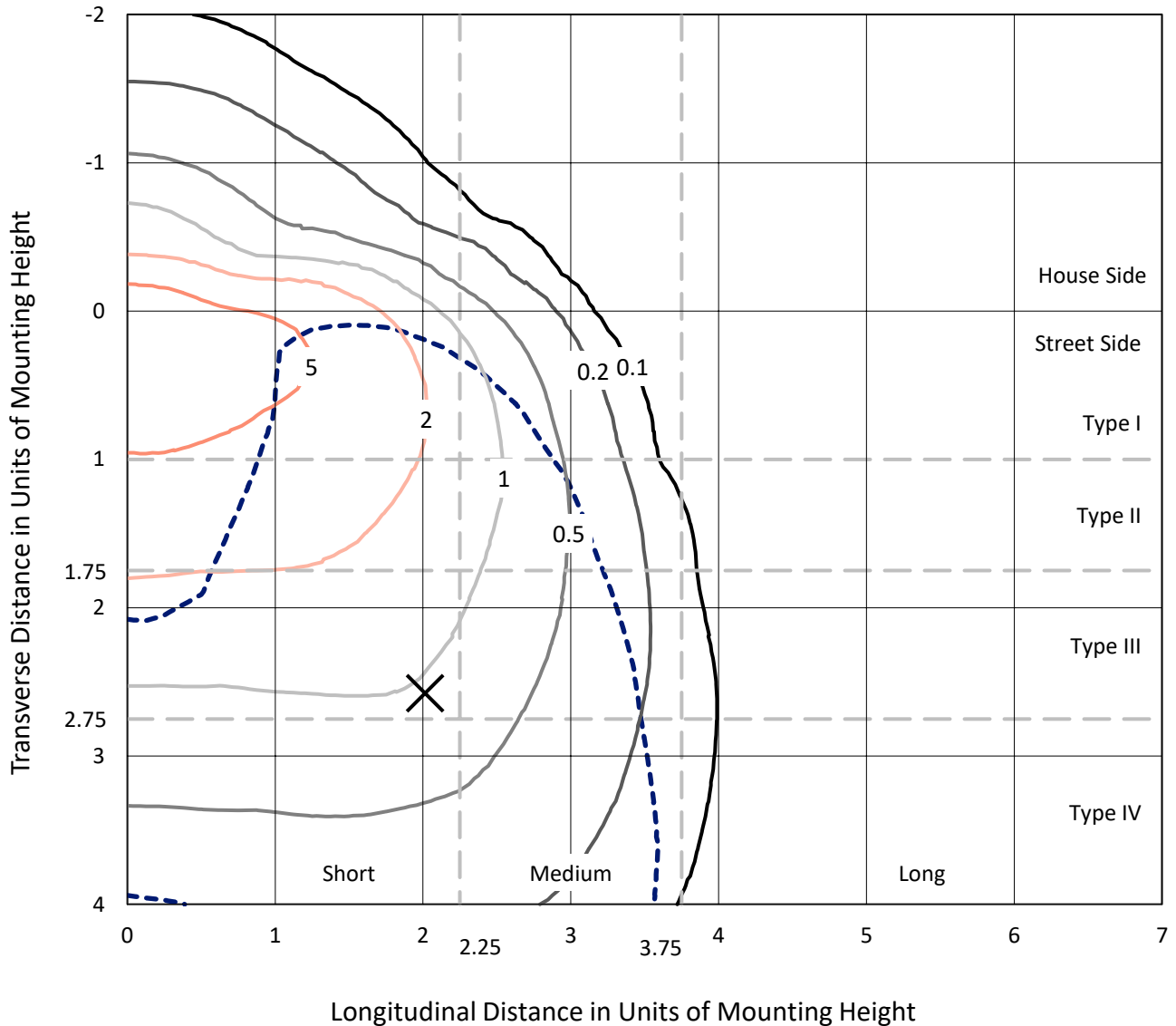
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

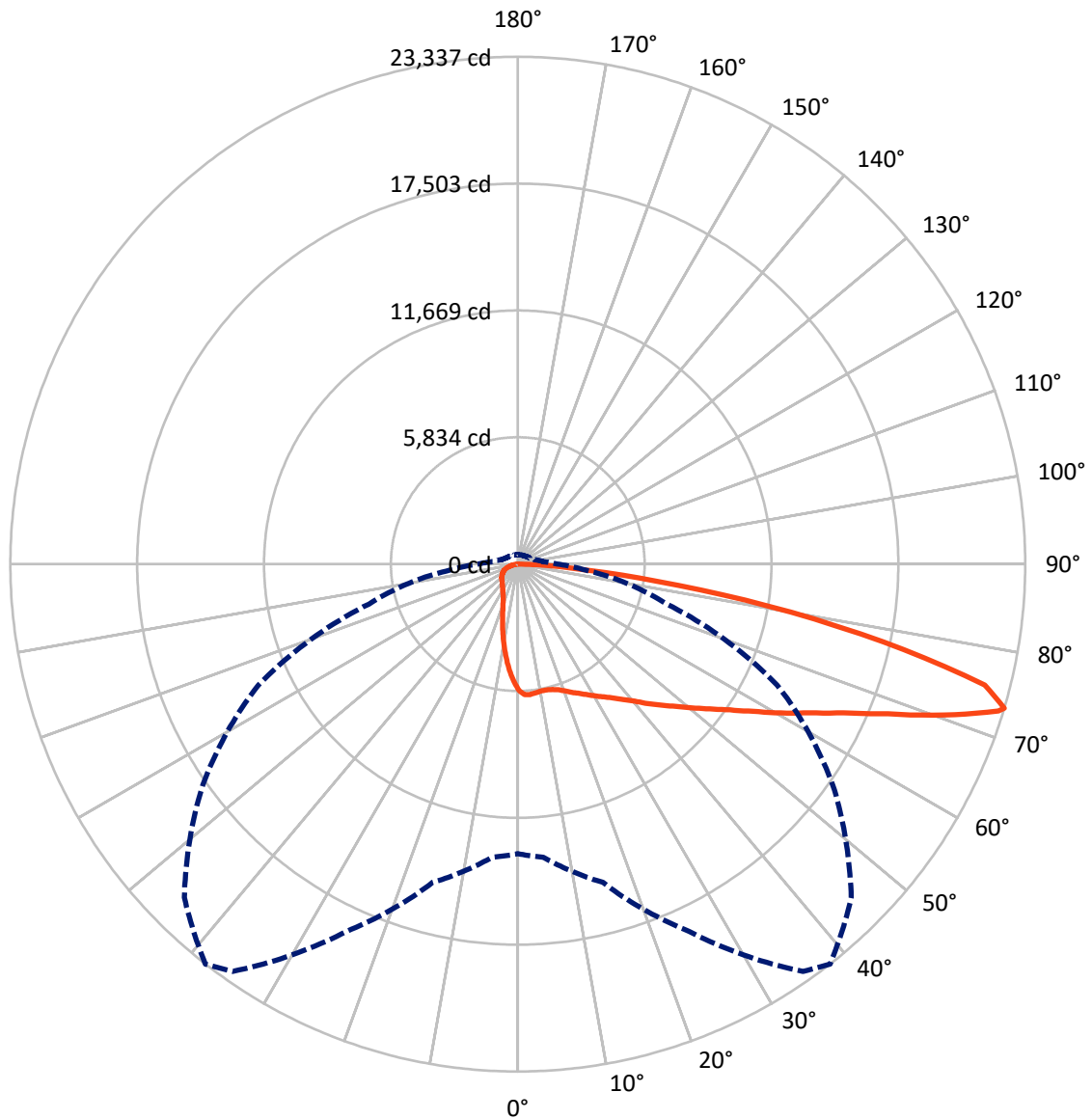
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	4444.6	0.0	4444.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	28618.3	0.0	28618.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	33063.0	0.0	33063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.0	1.5
10°-20°	1300.2	3.9
20°-30°	2024.6	6.1
30°-40°	2969.7	9.0
40°-50°	4405.2	13.3
50°-60°	6241.3	18.9
60°-70°	7917.2	23.9
70°-80°	6590.5	19.9
80°-90°	1107.3	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°	33063.0	100.0
0°-180°	33063.0	100.0

Coefficient of Utilization



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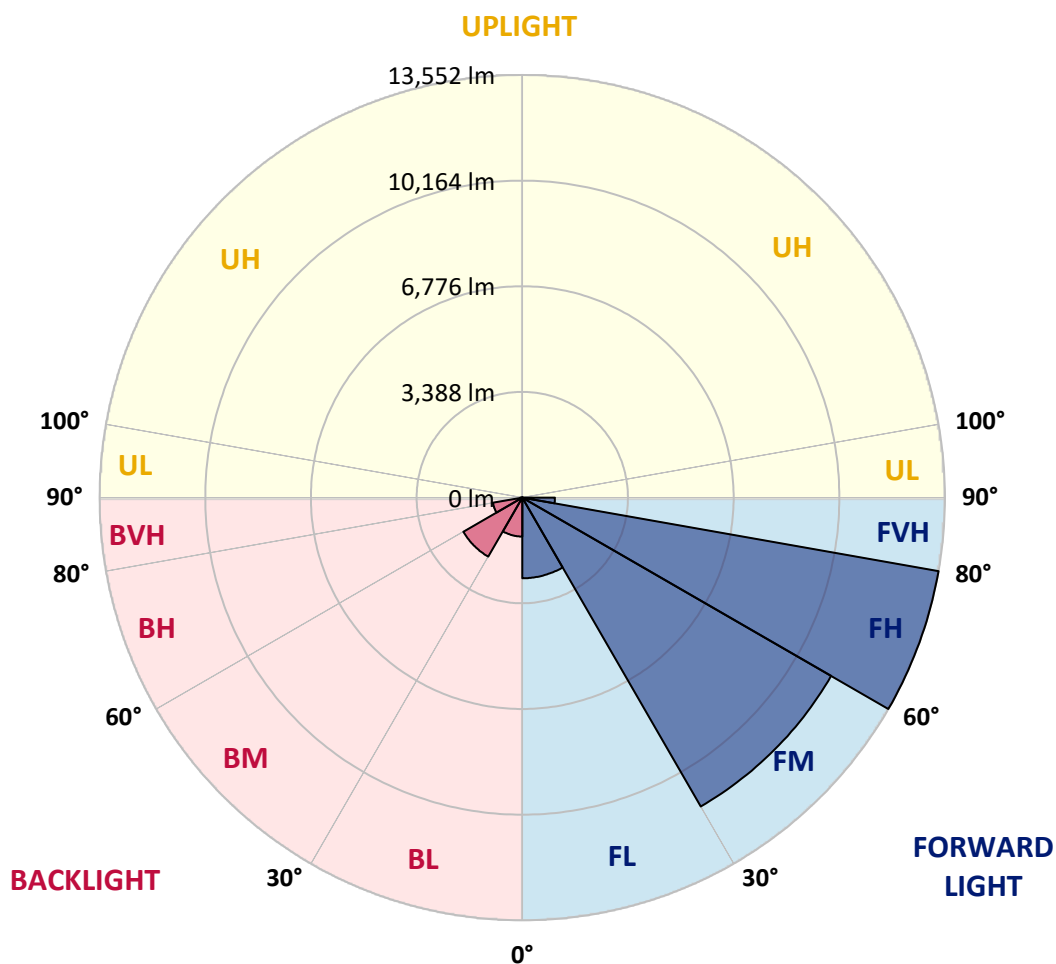
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2584.6	7.8			
FM	(30°-60°)	11434.1	34.6			
FH	(60°-80°)	13552.4	41.0			G5
FVH	(80°-90°)	1047.3	3.2			G5
BL	(0°-30°)	1247.2	3.8	B3/2500		
BM	(30°-60°)	2182.1	6.6	B2/2500		
BH	(60°-80°)	955.3	2.9	B2/1000		G2/1000
BVH	(80°-90°)	60.0	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°	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6
2.5°	6042.0	6071.9	6056.9	6036.4	6023.3	6010.3	5991.6	5937.4	5894.5	5847.8	5775.0
5°	6086.8	6105.5	6092.4	6066.3	6036.4	6023.3	5987.9	5916.9	5847.8	5769.4	5661.1
7.5°	6060.7	6068.1	6053.2	6021.5	5995.3	5971.0	5930.0	5851.6	5767.5	5672.3	5530.4
10°	5967.3	5995.3	5995.3	5969.2	5943.0	5930.0	5888.9	5814.2	5737.7	5629.4	5461.3
12.5°	5890.8	5920.6	5944.9	5937.4	5935.6	5935.6	5903.8	5847.8	5758.2	5655.5	5455.7
15°	5838.5	5874.0	5926.2	5956.1	5974.8	5980.4	5967.3	5918.8	5827.3	5707.8	5478.1
17.5°	5827.3	5870.2	5965.4	6030.8	6079.3	6077.5	6073.7	6006.5	5905.7	5782.5	5506.1
20°	5877.7	5933.7	6066.3	6169.0	6239.9	6226.8	6206.3	6118.6	6000.9	5862.8	5532.3
22.5°	6028.9	6086.8	6232.4	6344.5	6413.6	6413.6	6351.9	6236.2	6111.1	5956.1	5567.8
25°	6245.5	6309.0	6464.0	6577.9	6609.6	6585.3	6523.7	6383.7	6239.9	6090.5	5642.4
27.5°	6510.6	6587.2	6731.0	6826.2	6816.9	6798.2	6734.7	6555.5	6411.7	6275.4	5769.4
30°	6841.1	6897.1	7046.5	7068.9	7035.3	7031.6	6942.0	6762.7	6628.3	6523.7	5950.5
32.5°	7152.9	7203.3	7322.8	7332.2	7272.4	7279.9	7195.9	7031.6	6955.0	6917.7	6254.9
35°	7483.4	7509.6	7612.2	7601.0	7561.8	7556.2	7522.6	7365.8	7390.1	7457.3	6686.2
37.5°	7759.7	7812.0	7869.9	7879.2	7877.4	7896.0	7918.5	7843.8	7983.8	8194.8	7251.9
40°	8013.7	8058.5	8144.4	8174.2	8247.1	8284.4	8361.0	8362.8	8685.8	9033.1	7948.3
42.5°	8185.5	8262.0	8422.6	8476.7	8654.1	8766.1	8880.0	9001.4	9470.0	9916.3	8769.9
45°	8334.8	8435.6	8702.6	8870.7	9111.5	9247.8	9488.7	9742.6	10416.7	11001.1	9604.5
47.5°	8560.7	8650.4	8956.6	9253.4	9617.5	9774.4	10134.7	10513.7	11395.0	12035.5	10403.6
50°	8874.4	8928.6	9240.4	9724.0	10188.9	10390.5	10866.6	11413.7	12440.6	13056.8	11105.6
52.5°	9275.8	9298.3	9546.6	10190.7	10803.2	11053.3	11684.4	12323.0	13355.5	13943.6	11662.0
55°	9750.1	9712.8	9906.9	10685.5	11505.2	11831.9	12509.7	13243.5	14384.3	14660.6	12067.2
57.5°	10218.7	10160.9	10315.8	11286.7	12371.5	12765.5	13555.3	14192.0	15302.9	15330.9	12351.0
60°	10715.4	10672.5	10857.3	11992.5	13433.9	13900.7	14630.7	15175.9	16191.7	15797.7	12395.8
62.5°	11225.1	11156.0	11419.3	12786.0	14630.7	15054.6	15762.2	16221.5	17063.6	15971.3	11964.5
65°	11719.9	11688.2	12095.2	13728.9	15993.7	16475.5	17162.6	17474.4	17761.9	15709.9	10894.6
67.5°	12246.4	12309.9	12959.7	14987.4	17771.2	18376.2	19117.4	18824.3	17961.7	14472.0	9175.0
70°	13049.3	13090.4	14094.9	16636.0	20062.2	20792.2	21150.7	19304.1	16998.3	12121.3	6897.1
72.5°	13394.7	13575.8	15108.7	18366.9	22665.0	23111.2	21834.1	18234.3	14160.2	8234.0	3624.1
73°	13318.2	13534.7	15155.4	18630.1	22868.5	23337.1	21688.5	17683.5	13163.2	7091.3	3106.9
75°	12364.1	12631.1	14548.6	18409.8	22472.7	22192.6	19347.1	15071.4	8895.0	3224.5	1415.3
77.5°	9755.7	9832.3	11527.6	14866.0	17696.6	17177.5	14479.5	9419.6	3633.4	1198.7	802.9
80°	4893.7	5175.7	6497.6	8515.9	11833.8	11663.9	9139.5	4454.9	1514.2	703.9	532.1
82.5°	2354.4	2554.2	3164.8	4152.5	6538.7	6383.7	4525.9	2434.7	961.6	410.8	313.7
85°	1516.1	1665.5	2014.6	1981.0	2688.7	2567.3	2033.3	1842.8	569.5	214.7	218.5
87.5°	1000.8	1096.0	1314.5	1051.2	978.4	885.0	898.1	1038.1	112.0	82.2	29.9
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°	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6	5808.6
2.5°	5745.1	5720.9	5640.6	5562.1	5487.5	5416.5	5369.8	5308.2	5267.1	5278.3	5295.2
5°	5601.4	5547.2	5405.3	5267.1	5136.4	4981.5	4856.4	4755.6	4679.0	4651.0	4645.4
7.5°	5450.1	5358.6	5155.1	4918.0	4695.8	4503.5	4281.3	4171.1	4042.3	3997.5	3982.6
10°	5358.6	5235.4	4949.7	4619.3	4285.0	3965.8	3724.9	3528.9	3351.5	3317.9	3301.1
12.5°	5332.5	5170.1	4785.4	4359.7	3915.3	3523.3	3166.6	2909.0	2737.2	2698.0	2640.1
15°	5317.6	5115.9	4632.3	4098.3	3534.5	3056.5	2681.2	2380.6	2223.7	2119.2	2121.0
17.5°	5304.5	5054.3	4460.5	3812.7	3205.8	2655.0	2240.5	1969.8	1826.0	1770.0	1764.4
20°	5285.8	4981.5	4262.6	3512.1	2830.6	2289.1	1913.8	1712.1	1615.1	1568.4	1566.5
22.5°	5278.3	4910.5	4068.5	3205.8	2498.2	2007.2	1697.2	1555.3	1493.7	1462.0	1462.0
25°	5297.0	4860.1	3864.9	2914.6	2203.2	1766.3	1547.8	1450.8	1415.3	1398.5	1392.9
27.5°	5354.9	4837.7	3663.3	2623.3	1932.5	1602.0	1447.0	1379.8	1353.7	1340.6	1342.5
30°	5465.1	4835.8	3465.4	2335.8	1730.8	1476.9	1366.7	1320.1	1299.5	1292.0	1290.2
32.5°	5642.4	4876.9	3271.2	2098.6	1560.9	1372.3	1292.0	1258.4	1249.1	1243.5	1241.6
35°	5943.0	4992.7	3078.9	1882.1	1430.2	1279.0	1221.1	1204.3	1191.2	1196.8	1198.7
37.5°	6348.2	5192.5	2895.9	1712.1	1331.3	1209.9	1161.3	1146.4	1138.9	1144.5	1150.1
40°	6891.5	5480.0	2742.8	1575.8	1260.3	1152.0	1109.1	1096.0	1088.5	1097.9	1099.7
42.5°	7490.9	5812.3	2615.8	1469.4	1202.4	1103.5	1062.4	1047.5	1041.9	1047.5	1049.3
45°	8107.0	6198.8	2550.5	1392.9	1153.9	1068.0	1025.0	1008.2	995.2	991.4	997.0
47.5°	8713.8	6534.9	2548.6	1346.2	1114.7	1036.3	989.6	970.9	954.1	944.8	942.9
50°	9208.6	6801.9	2593.4	1325.7	1081.1	1000.8	954.1	935.4	913.0	894.4	898.1
52.5°	9582.1	6975.6	2614.0	1316.3	1062.4	963.4	916.8	900.0	873.8	849.5	849.5
55°	9822.9	7016.6	2563.6	1307.0	1047.5	924.2	873.8	858.9	832.7	808.5	808.5
57.5°	9905.1	6889.7	2382.4	1284.6	1032.5	890.6	830.9	817.8	797.3	773.0	769.3
60°	9714.6	6460.2	2065.0	1217.4	1002.6	855.1	784.2	778.6	771.1	750.6	748.7
62.5°	8980.8	5549.1	1719.6	1129.6	952.2	817.8	741.2	750.6	756.2	745.0	743.1
65°	7759.7	4505.4	1469.4	1008.2	885.0	765.5	694.6	718.8	733.8	733.8	730.0
67.5°	6294.1	3459.8	1237.9	903.7	801.0	694.6	642.3	661.0	672.2	668.4	677.8
70°	4473.6	2343.2	1008.2	784.2	694.6	614.3	575.1	575.1	567.6	563.9	563.9
72.5°	2169.6	1338.7	817.8	655.4	591.9	524.7	492.9	479.8	464.9	463.0	453.7
73°	1813.0	1200.6	780.5	631.1	567.6	511.6	476.1	455.6	446.2	438.8	436.9
75°	1103.5	911.2	651.6	532.1	483.6	440.6	408.9	390.2	380.9	375.3	373.4
77.5°	726.3	679.6	506.0	407.0	369.7	343.5	330.5	311.8	306.2	298.7	298.7
80°	541.5	519.1	362.2	287.5	265.1	242.7	239.0	235.3	220.3	211.0	207.3
82.5°	349.2	369.7	246.5	192.3	168.0	149.4	151.2	156.8	141.9	128.8	125.1
85°	248.3	267.0	149.4	87.8	71.0	61.6	69.1	61.6	63.5	50.4	41.1
87.5°	41.1	71.0	26.1	11.2	5.6	3.7	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)