

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: P454143

Luminaire Tested: **GALN-SA5B-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454143
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-SA5B-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA 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: 23621 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

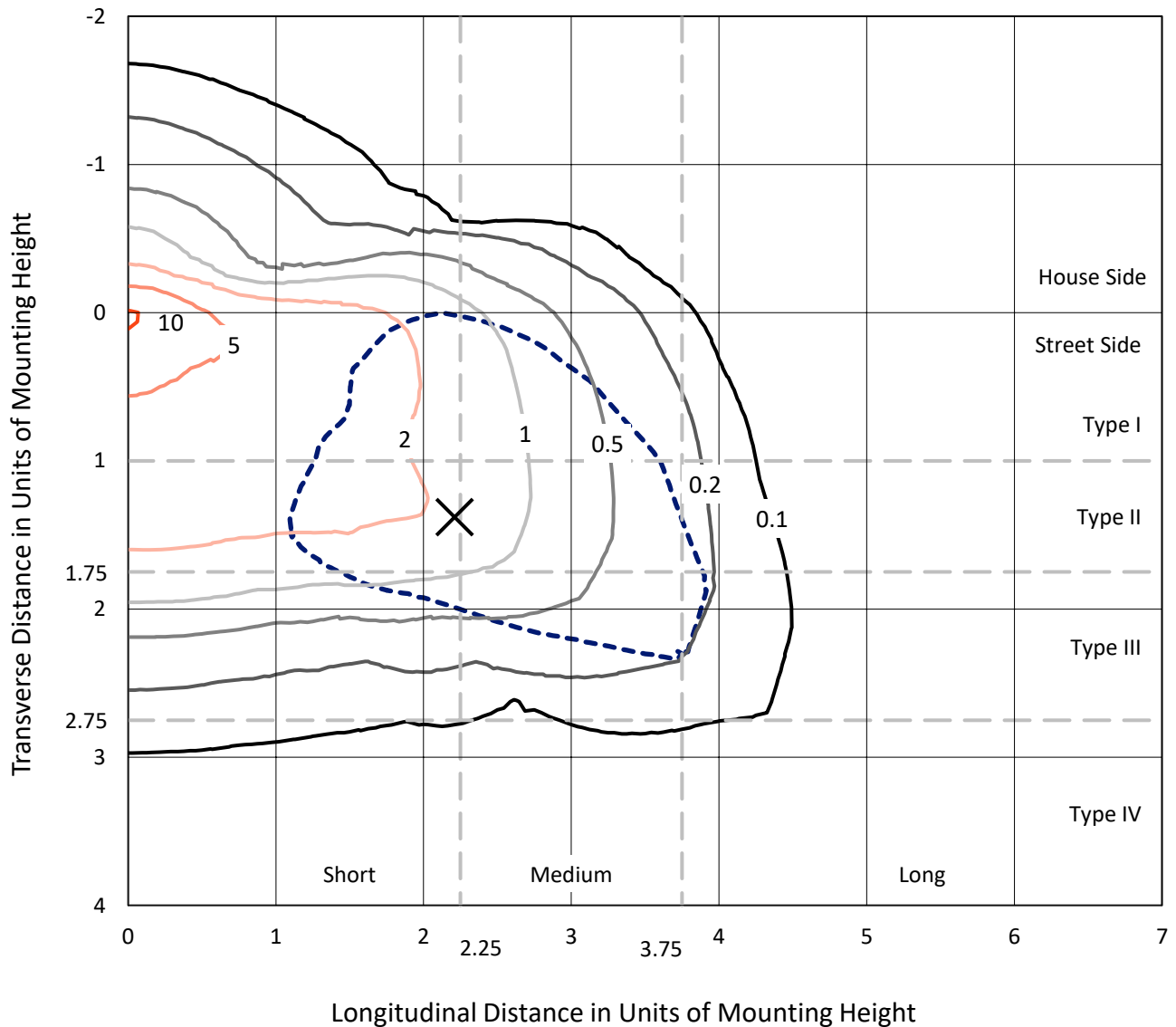
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

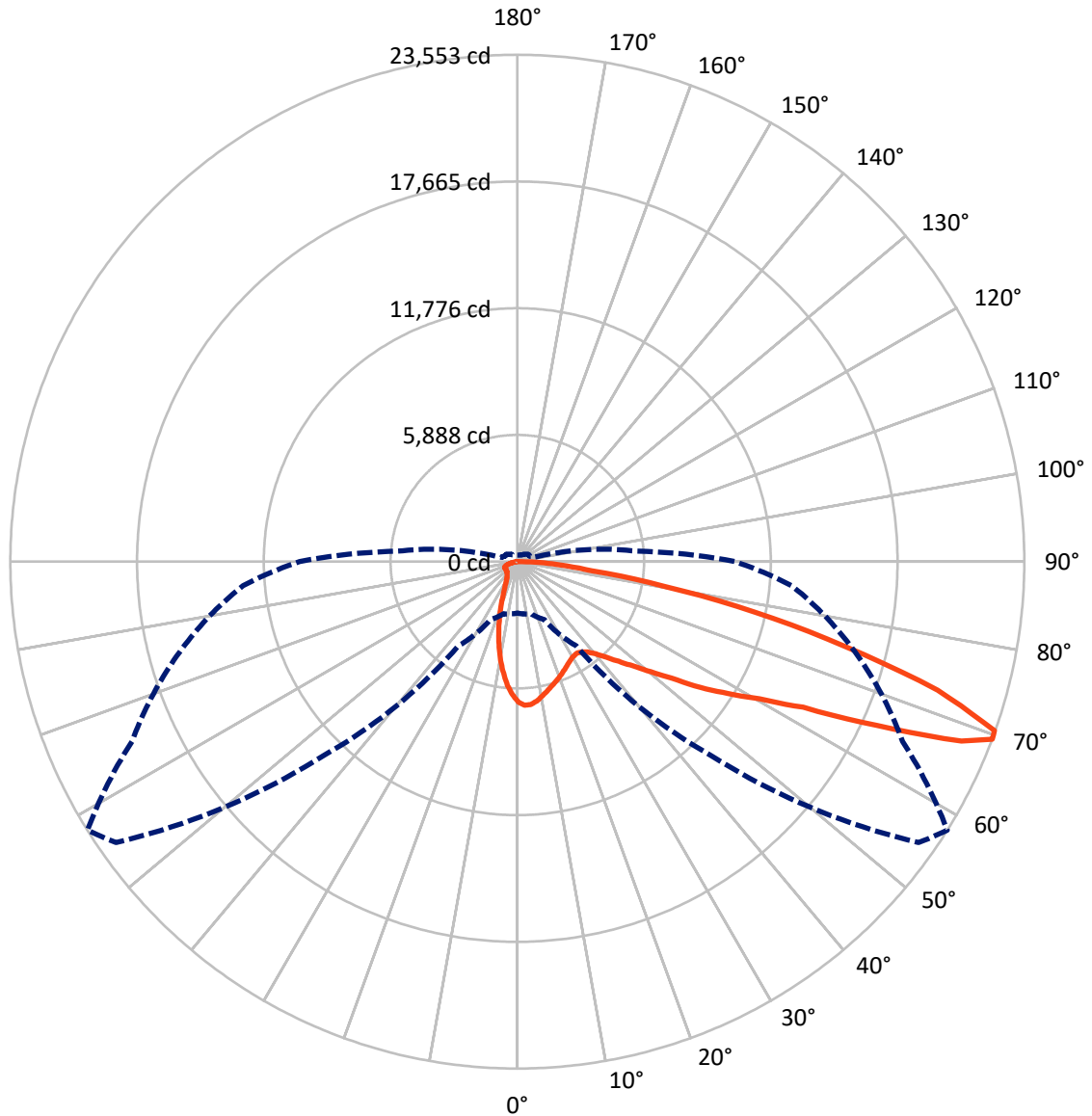
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	3461.7	0.0	3461.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	20159.3	0.0	20159.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	23621.0	0.0	23621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.3	2.3
10°-20°	1217.2	5.2
20°-30°	1572.7	6.7
30°-40°	2042.6	8.6
40°-50°	2969.7	12.6
50°-60°	4738.6	20.1
60°-70°	6330.2	26.8
70°-80°	3649.1	15.4
80°-90°	546.6	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°	23621.0	100.0
0°-180°	23621.0	100.0

Coefficient of Utilization



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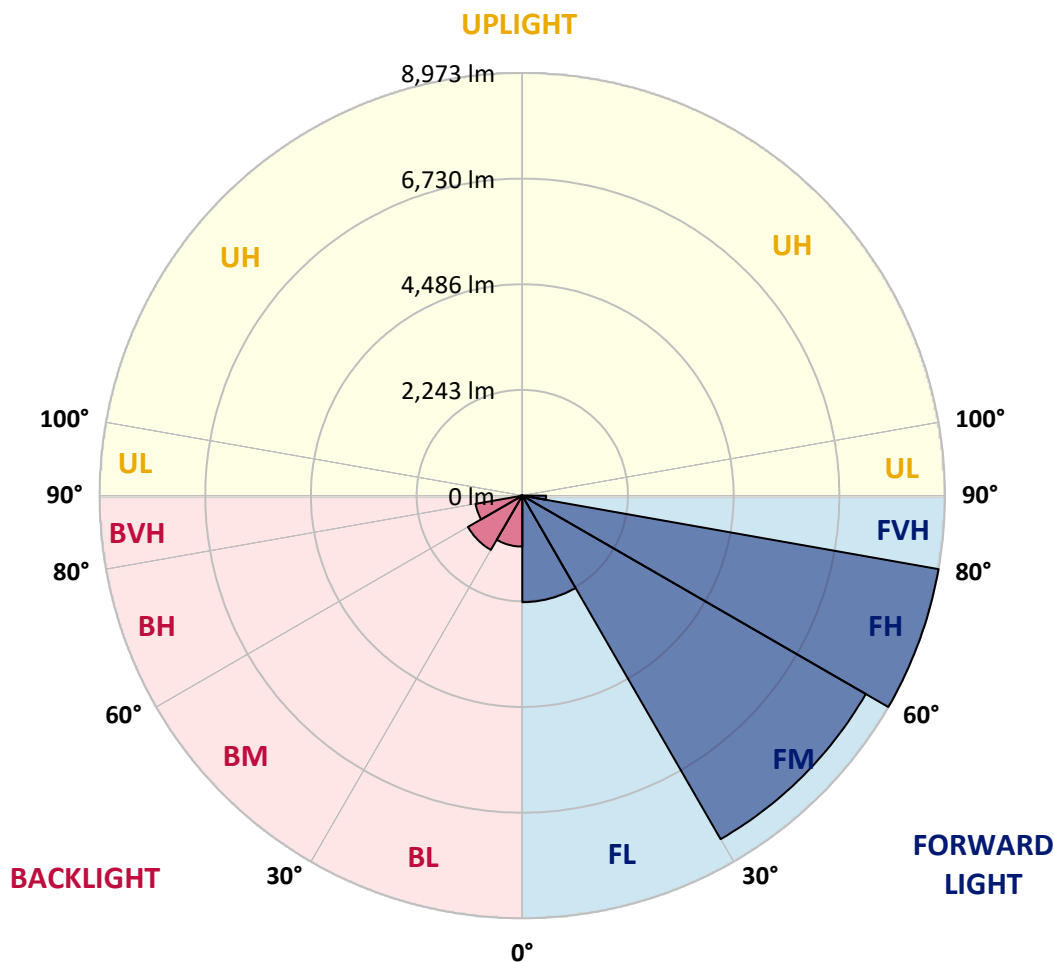
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2262.3	9.6			
FM (30°-60°)	8419.7	35.6			
FH (60°-80°)	8972.7	38.0			G4/12000
FVH (80°-90°)	504.7	2.1			G4/750
BL (0°-30°)	1082.0	4.6	B3/2500		
BM (30°-60°)	1331.2	5.6	B2/2500		
BH (60°-80°)	1006.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	41.9	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5
2.5°	6769.9	6788.3	6783.0	6776.4	6765.9	6736.9	6689.5	6681.6	6651.3	6586.7	6506.4
5°	6665.8	6681.6	6682.9	6692.1	6705.3	6700.0	6665.8	6661.8	6617.0	6530.1	6395.7
7.5°	6308.8	6329.9	6376.0	6427.3	6473.5	6516.9	6527.5	6534.0	6506.4	6406.3	6227.1
10°	5907.0	5928.1	5949.1	6025.6	6138.8	6246.9	6336.4	6348.3	6354.9	6262.7	6044.0
12.5°	5461.7	5505.2	5550.0	5663.3	5814.8	5984.7	6142.8	6167.8	6212.6	6142.8	5885.9
15°	5083.6	5128.4	5193.0	5294.4	5477.5	5722.6	5945.2	5986.0	6074.3	6038.7	5738.4
17.5°	4821.5	4837.3	4882.1	4998.0	5195.6	5453.8	5751.5	5833.2	5974.2	5965.0	5611.9
20°	4614.7	4634.4	4662.1	4733.2	4938.7	5211.4	5571.1	5676.5	5867.5	5899.1	5486.8
22.5°	4527.7	4542.2	4538.3	4576.5	4716.1	4990.1	5388.0	5513.1	5772.6	5854.3	5370.8
25°	4533.0	4546.2	4526.4	4517.2	4600.2	4795.1	5196.9	5356.3	5696.2	5824.0	5265.4
27.5°	4621.3	4630.5	4593.6	4556.7	4563.3	4674.0	5038.9	5215.4	5631.7	5837.2	5177.2
30°	4739.8	4756.9	4733.2	4688.4	4639.7	4645.0	4937.4	5111.3	5601.4	5883.3	5135.0
32.5°	4892.6	4908.4	4897.9	4862.3	4799.1	4729.3	4912.4	5073.1	5604.0	5976.8	5125.8
35°	5053.3	5085.0	5102.1	5099.5	5048.1	4926.9	5011.2	5144.2	5667.2	6133.6	5179.8
37.5°	5235.1	5261.5	5335.3	5382.7	5335.3	5194.3	5233.8	5326.0	5806.9	6360.2	5298.4
40°	5411.7	5451.2	5559.2	5706.8	5688.3	5564.5	5573.7	5634.3	6053.2	6697.4	5530.2
42.5°	5596.1	5643.5	5831.9	6050.6	6094.1	5997.9	6022.9	6076.9	6403.6	7165.1	5928.1
45°	5833.2	5889.9	6121.7	6394.4	6565.7	6506.4	6577.5	6603.9	6872.6	7773.7	6452.4
47.5°	6138.8	6204.7	6490.6	6830.5	7072.8	7126.9	7250.7	7234.9	7453.6	8494.3	7132.1
50°	6653.9	6690.8	6960.9	7307.3	7640.6	7884.3	8018.7	8043.7	8174.1	9195.1	7892.2
52.5°	7266.5	7299.4	7494.4	7797.4	8215.0	8731.4	9063.4	8981.7	9013.3	10048.7	8781.4
55°	7955.5	8010.8	8134.6	8336.2	8877.6	9637.7	10304.3	10324.1	9973.6	10865.5	9633.8
57.5°	8489.0	8582.5	8794.6	9081.8	9768.1	10645.5	11541.3	11554.5	11106.6	11737.6	10574.4
60°	8220.3	8330.9	8815.7	9515.2	10936.6	12404.2	13019.4	12944.3	12209.2	12730.9	11721.8
62.5°	7061.0	7080.7	7785.5	8878.9	11296.3	14756.9	15219.3	14901.8	13680.7	13990.2	12887.6
65°	4569.9	4699.0	5257.5	6789.6	10114.6	16062.4	19073.9	18340.1	15743.6	15419.6	13863.8
67.5°	2885.0	2852.1	3083.9	3877.0	6956.9	14912.4	22363.3	22247.4	18441.6	16321.9	13630.6
69°	2392.3	2429.2	2508.2	2971.9	4787.2	12732.2	22751.9	23552.9	19749.7	16250.8	12783.5
70°	2169.7	2186.8	2269.8	2634.7	3693.8	10663.9	22114.3	23517.3	20263.5	15953.1	12169.7
72.5°	1721.8	1720.5	1862.7	2192.1	2761.2	6087.5	18158.3	20417.6	19689.1	14567.2	10055.3
75°	1308.1	1329.2	1486.0	1854.8	2543.8	3326.3	12671.6	15723.9	15725.2	11505.7	6274.5
77.5°	943.2	956.4	1139.5	1557.1	2396.3	2696.6	8440.3	11277.8	10602.0	5272.0	1972.1
80°	617.8	625.7	765.4	1233.0	2160.5	2543.8	5004.6	6902.9	5000.7	1399.0	652.1
82.5°	338.6	378.1	467.7	798.3	1733.6	2350.1	3041.8	3493.6	1875.9	623.1	339.9
85°	169.9	180.5	263.5	466.3	1132.9	1944.4	2118.3	2003.7	968.3	309.6	176.5
87.5°	50.1	63.2	109.3	180.5	459.8	1013.0	1179.0	1057.8	372.8	112.0	36.9
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°	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5	6527.5
2.5°	6473.5	6449.7	6344.4	6249.5	6162.6	6070.3	5992.6	5924.1	5930.7	5932.0	5862.2
5°	6325.9	6271.9	6071.7	5884.6	5726.5	5526.3	5355.0	5244.4	5189.0	5115.3	5141.6
7.5°	6125.7	6021.6	5743.6	5432.7	5141.6	4882.1	4600.2	4406.5	4282.7	4162.8	4178.6
10°	5918.8	5751.5	5347.1	4936.1	4559.3	4144.4	3784.7	3476.5	3247.3	3161.6	3105.0
12.5°	5706.8	5486.8	4973.0	4426.3	3905.9	3409.3	2899.5	2568.8	2315.9	2181.5	2198.7
15°	5513.1	5245.7	4583.1	3916.5	3240.7	2649.2	2140.7	1825.8	1649.3	1612.4	1633.5
17.5°	5333.9	4983.5	4218.1	3421.2	2632.1	1986.6	1608.5	1430.6	1359.5	1339.7	1338.4
20°	5149.5	4760.9	3808.5	2891.6	2051.1	1540.0	1320.0	1237.0	1223.8	1231.7	1233.0
22.5°	4962.5	4485.6	3386.9	2366.0	1633.5	1259.4	1154.0	1131.6	1142.1	1160.6	1163.2
25°	4789.9	4243.2	2981.2	1904.9	1304.2	1106.6	1055.2	1055.2	1078.9	1106.6	1107.9
27.5°	4647.6	4008.7	2576.7	1512.3	1092.1	995.9	978.8	988.0	1020.9	1042.0	1043.3
30°	4530.4	3790.0	2194.7	1212.0	960.3	907.7	903.7	919.5	943.2	963.0	964.3
32.5°	4442.1	3597.7	1837.7	1018.3	869.4	840.5	839.2	851.0	864.2	869.4	874.7
35°	4407.8	3438.3	1511.0	895.8	808.9	790.4	790.4	789.1	794.4	797.0	799.6
37.5°	4435.5	3315.8	1258.1	816.8	764.1	750.9	743.0	735.1	732.4	732.4	733.8
40°	4552.8	3251.2	1069.7	765.4	732.4	712.7	698.2	689.0	679.8	682.4	685.0
42.5°	4801.7	3263.1	941.9	731.1	704.8	677.1	656.0	645.5	638.9	646.8	645.5
45°	5198.3	3381.6	860.2	707.4	677.1	641.5	621.8	611.2	611.2	623.1	627.1
47.5°	5752.9	3608.2	816.8	689.0	656.0	613.9	594.1	586.2	588.9	608.6	609.9
50°	6430.0	4002.1	808.9	679.8	645.5	594.1	571.7	563.8	570.4	591.5	594.1
52.5°	7176.9	4509.3	847.1	681.1	636.3	582.3	553.3	541.4	548.0	565.1	570.4
55°	8062.2	5144.2	945.9	686.3	623.1	575.7	540.1	513.8	521.7	533.5	534.8
57.5°	8965.9	5945.2	1119.7	687.7	612.6	563.8	517.7	483.5	483.5	491.4	495.3
60°	10069.8	6817.3	1349.0	689.0	613.9	546.7	487.4	449.2	443.9	447.9	449.2
62.5°	11165.8	7547.1	1387.2	685.0	627.1	529.6	454.5	415.0	405.7	404.4	401.8
65°	11649.3	7411.4	1136.9	666.6	641.5	519.0	428.1	382.0	366.2	361.0	361.0
67.5°	10861.5	6269.3	855.0	641.5	632.3	508.5	403.1	354.4	335.9	325.4	325.4
69°	10121.2	5576.3	768.0	624.4	608.6	491.4	387.3	339.9	317.5	305.6	301.7
70°	9549.5	5099.5	731.1	609.9	586.2	471.6	375.4	329.3	304.3	291.1	288.5
72.5°	7620.9	4000.8	640.2	554.6	499.3	396.5	333.3	296.4	272.7	258.2	254.2
75°	4392.0	2168.4	530.9	482.1	401.8	308.3	281.9	258.2	239.8	226.6	222.6
77.5°	1351.6	837.8	384.7	380.7	295.1	238.4	225.3	216.0	202.9	188.4	185.7
80°	569.1	426.8	260.8	256.9	196.3	166.0	162.0	160.7	155.4	143.6	139.6
82.5°	312.2	241.1	181.8	158.1	118.6	96.2	100.1	101.4	97.5	85.6	77.7
85°	152.8	131.7	88.3	71.1	54.0	34.3	32.9	39.5	36.9	26.3	29.0
87.5°	30.3	36.9	23.7	10.5	5.3	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)