

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: P454520

Luminaire Tested: **GALN-SA5C-827-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454520  
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-SA5C-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA 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: 25653 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

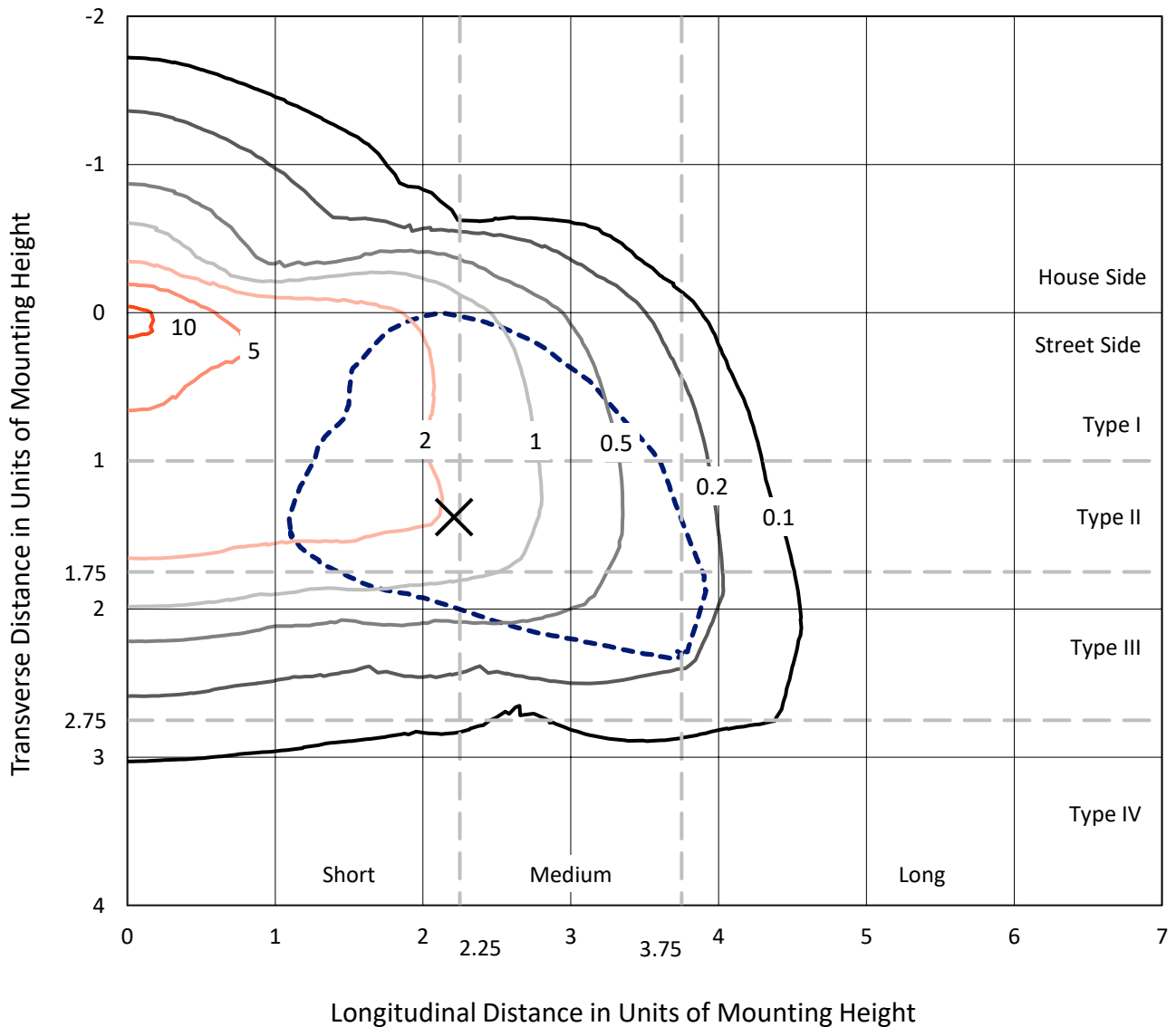
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

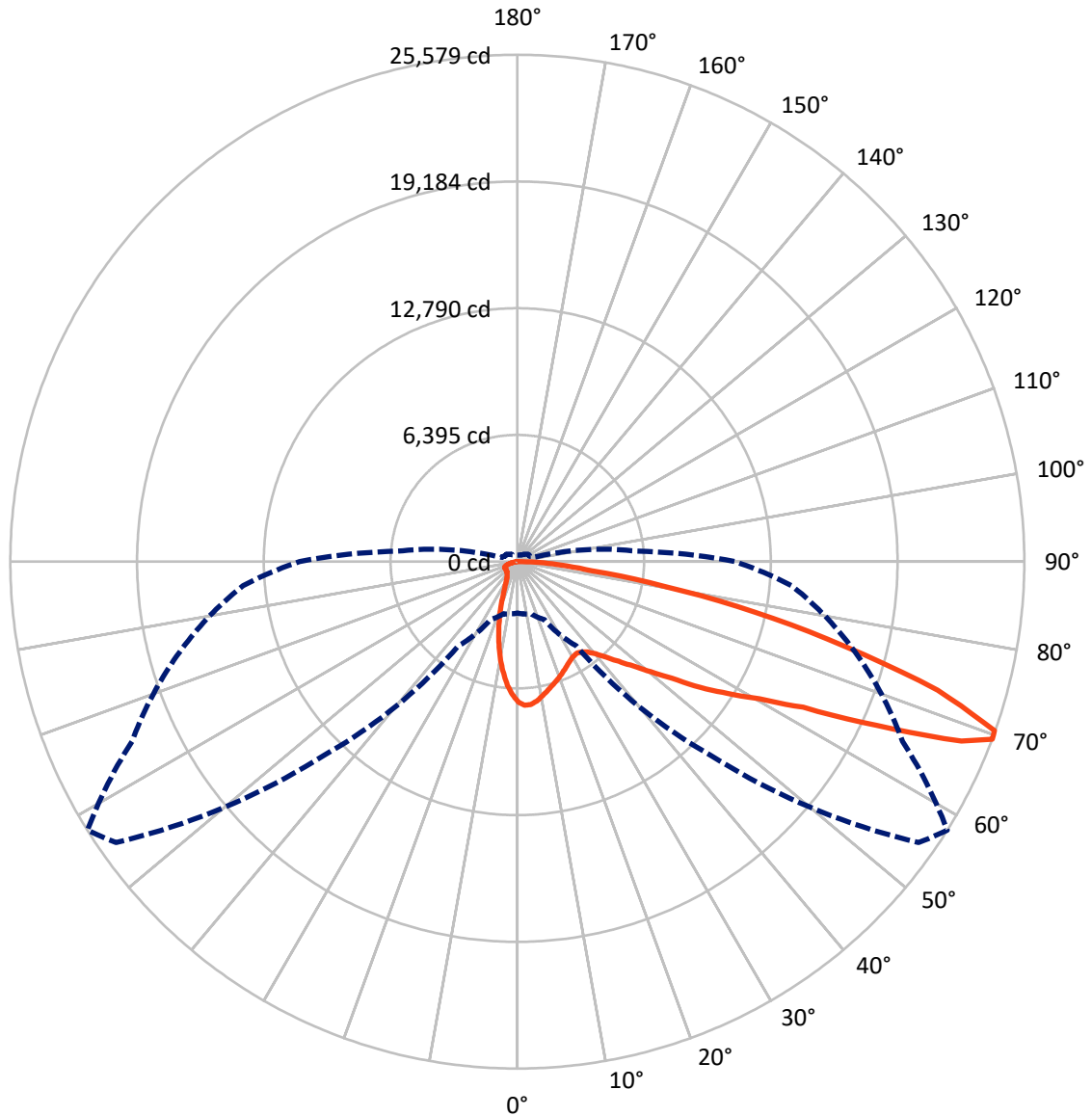
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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
<b>House Side</b>	Lumens	3759.5	0.0	3759.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	21893.6	0.0	21893.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	25653.0	0.0	25653.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	602.0	2.3
10°-20°	1322.0	5.2
20°-30°	1708.0	6.7
30°-40°	2218.3	8.6
40°-50°	3225.1	12.6
50°-60°	5146.3	20.1
60°-70°	6874.7	26.8
70°-80°	3963.0	15.4
80°-90°	593.6	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°	25653.0	100.0
0°-180°	25653.0	100.0

**Coefficient of Utilization**



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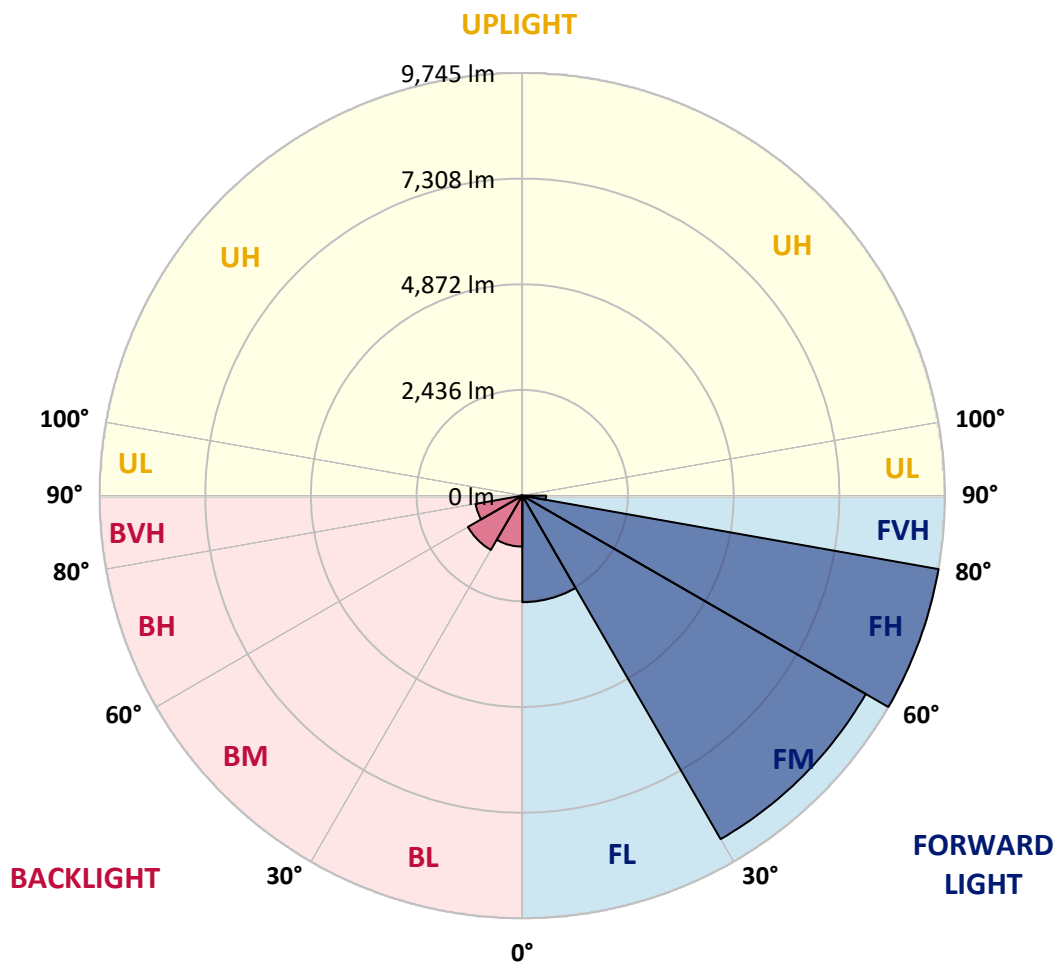
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2456.9	9.6			
FM	(30°-60°)	9144.0	35.6			
FH	(60°-80°)	9744.6	38.0			G4/12000
FVH	(80°-90°)	548.1	2.1			G4/750
BL	(0°-30°)	1175.0	4.6	B3/2500		
BM	(30°-60°)	1445.8	5.6	B2/2500		
BH	(60°-80°)	1093.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	45.5	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°	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0
2.5°	7352.2	7372.3	7366.5	7359.4	7347.9	7316.5	7265.0	7256.4	7223.5	7153.4	7066.1
5°	7239.2	7256.4	7257.8	7267.8	7282.1	7276.4	7239.2	7234.9	7186.3	7091.8	6945.9
7.5°	6851.5	6874.4	6924.5	6980.3	7030.3	7077.5	7089.0	7096.1	7066.1	6957.4	6762.8
10°	6415.1	6438.0	6460.9	6543.9	6666.9	6784.3	6881.5	6894.4	6901.6	6801.4	6563.9
12.5°	5931.6	5978.8	6027.4	6150.5	6315.0	6499.5	6671.2	6698.4	6747.1	6671.2	6392.2
15°	5521.0	5569.6	5639.7	5749.9	5948.7	6214.8	6456.6	6501.0	6596.8	6558.2	6232.0
17.5°	5236.3	5253.4	5302.1	5428.0	5642.6	5923.0	6246.3	6335.0	6488.1	6478.1	6094.7
20°	5011.6	5033.1	5063.2	5140.4	5363.6	5659.7	6050.3	6164.8	6372.2	6406.6	5958.8
22.5°	4917.2	4933.0	4928.7	4970.2	5121.8	5419.4	5851.5	5987.4	6269.2	6357.9	5832.9
25°	4922.9	4937.3	4915.8	4905.8	4995.9	5207.7	5644.0	5817.1	6186.2	6325.0	5718.4
27.5°	5018.8	5028.8	4988.8	4948.7	4955.9	5076.0	5472.3	5664.0	6116.1	6339.3	5622.5
30°	5147.6	5166.2	5140.4	5091.8	5038.8	5044.6	5362.2	5551.0	6083.2	6389.4	5576.8
32.5°	5313.5	5330.7	5319.2	5280.6	5211.9	5136.1	5335.0	5509.5	6086.1	6491.0	5566.8
35°	5488.1	5522.4	5541.0	5538.1	5482.3	5350.7	5442.3	5586.8	6154.8	6661.2	5625.4
37.5°	5685.5	5714.1	5794.2	5845.7	5794.2	5641.1	5684.1	5784.2	6306.4	6907.3	5754.2
40°	5877.2	5920.1	6037.4	6197.7	6177.6	6043.2	6053.2	6119.0	6573.9	7273.5	6006.0
42.5°	6077.5	6129.0	6333.6	6571.1	6618.3	6513.9	6541.0	6599.7	6954.5	7781.4	6438.0
45°	6335.0	6396.5	6648.3	6944.5	7130.5	7066.1	7143.4	7172.0	7463.8	8442.4	7007.4
47.5°	6666.9	6738.5	7048.9	7418.0	7681.3	7739.9	7874.4	7857.3	8094.8	9225.0	7745.7
50°	7226.3	7266.4	7559.7	7935.9	8297.9	8562.6	8708.5	8735.7	8877.3	9986.1	8571.2
52.5°	7891.6	7927.4	8139.1	8468.2	8921.7	9482.5	9843.0	9754.3	9788.7	10913.2	9536.9
55°	8639.8	8699.9	8834.4	9053.3	9641.3	10466.8	11190.7	11212.2	10831.6	11800.2	10462.5
57.5°	9219.3	9320.8	9551.2	9863.1	10608.4	11561.3	12534.1	12548.4	12062.0	12747.3	11484.0
60°	8927.4	9047.6	9574.1	10333.8	11877.5	13471.2	14139.3	14057.8	13259.5	13826.0	12730.1
62.5°	7668.4	7689.9	8455.3	9642.7	12268.0	16026.4	16528.6	16183.8	14857.5	15193.8	13996.3
65°	4963.0	5103.2	5709.8	7373.7	10984.7	17444.2	20714.7	19917.8	17098.0	16746.0	15056.4
67.5°	3133.2	3097.4	3349.2	4210.5	7555.4	16195.2	24287.1	24161.2	20028.0	17726.0	14803.2
69°	2598.1	2638.2	2724.0	3227.6	5199.1	13827.5	24709.2	25579.0	21448.7	17648.8	13883.3
70°	2356.3	2374.9	2465.1	2861.3	4011.6	11581.3	24016.7	25540.4	22006.6	17325.5	13216.6
72.5°	1869.9	1868.5	2023.0	2380.6	2998.7	6611.1	19720.4	22174.0	21382.8	15820.4	10920.3
75°	1420.7	1443.5	1613.8	2014.4	2762.6	3612.5	13761.6	17076.5	17077.9	12495.5	6814.3
77.5°	1024.4	1038.7	1237.5	1691.1	2602.4	2928.6	9166.3	12248.0	11514.1	5725.6	2141.7
80°	671.0	679.6	831.2	1339.1	2346.3	2762.6	5435.1	7496.7	5430.8	1519.4	708.2
82.5°	367.7	410.6	507.9	867.0	1882.8	2552.3	3303.4	3794.1	2037.3	676.7	369.1
85°	184.6	196.0	286.1	506.5	1230.4	2111.7	2300.5	2176.1	1051.5	336.2	191.7
87.5°	54.4	68.7	118.7	196.0	499.3	1100.2	1280.5	1148.8	404.9	121.6	40.1
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°	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0	7089.0
2.5°	7030.3	7004.6	6890.1	6787.1	6692.7	6592.5	6508.1	6433.7	6440.9	6442.3	6366.5
5°	6870.1	6811.4	6594.0	6390.8	6219.1	6001.7	5815.7	5695.5	5635.4	5555.3	5583.9
7.5°	6652.6	6539.6	6237.7	5900.1	5583.9	5302.1	4995.9	4785.6	4651.1	4520.9	4538.1
10°	6428.0	6246.3	5807.1	5360.7	4951.6	4500.9	4110.3	3775.5	3526.6	3433.6	3372.1
12.5°	6197.7	5958.8	5400.8	4807.1	4241.9	3702.6	3148.9	2789.8	2515.1	2369.2	2387.8
15°	5987.4	5696.9	4977.3	4253.4	3519.5	2877.1	2324.8	1982.9	1791.2	1751.1	1774.0
17.5°	5792.8	5412.2	4581.0	3715.5	2858.5	2157.5	1746.9	1553.7	1476.5	1455.0	1453.6
20°	5592.5	5170.5	4136.1	3140.3	2227.6	1672.5	1433.5	1343.4	1329.1	1337.7	1339.1
22.5°	5389.3	4871.4	3678.3	2569.5	1774.0	1367.7	1253.3	1228.9	1240.4	1260.4	1263.3
25°	5201.9	4608.2	3237.6	2068.8	1416.4	1201.8	1146.0	1146.0	1171.7	1201.8	1203.2
27.5°	5047.4	4353.5	2798.4	1642.4	1186.0	1081.6	1063.0	1073.0	1108.8	1131.7	1133.1
30°	4920.1	4116.0	2383.5	1316.2	1043.0	985.7	981.4	998.6	1024.4	1045.8	1047.3
32.5°	4824.2	3907.2	1995.8	1105.9	944.2	912.8	911.3	924.2	938.5	944.2	950.0
35°	4787.0	3734.1	1641.0	972.9	878.4	858.4	858.4	857.0	862.7	865.6	868.4
37.5°	4817.1	3601.0	1366.3	887.0	829.8	815.5	806.9	798.3	795.5	795.5	796.9
40°	4944.4	3530.9	1161.7	831.2	795.5	774.0	758.3	748.2	738.2	741.1	744.0
42.5°	5214.8	3543.8	1022.9	794.0	765.4	735.4	712.5	701.0	693.9	702.5	701.0
45°	5645.4	3672.5	934.2	768.3	735.4	696.7	675.3	663.8	663.8	676.7	681.0
47.5°	6247.8	3918.6	887.0	748.2	712.5	666.7	645.2	636.6	639.5	661.0	662.4
50°	6983.1	4346.4	878.4	738.2	701.0	645.2	620.9	612.3	619.5	642.4	645.2
52.5°	7794.3	4897.2	919.9	739.7	691.0	632.4	600.9	588.0	595.2	613.8	619.5
55°	8755.7	5586.8	1027.2	745.4	676.7	625.2	586.6	558.0	566.5	579.4	580.9
57.5°	9737.2	6456.6	1216.1	746.8	665.3	612.3	562.3	525.1	525.1	533.6	537.9
60°	10936.1	7403.7	1465.0	748.2	666.7	593.7	529.3	487.9	482.1	486.4	487.9
62.5°	12126.4	8196.3	1506.5	744.0	681.0	575.1	493.6	450.7	440.6	439.2	436.4
65°	12651.4	8049.0	1234.7	723.9	696.7	563.7	465.0	414.9	397.7	392.0	392.0
67.5°	11795.9	6808.6	928.5	696.7	686.7	552.2	437.8	384.9	364.8	353.4	353.4
69°	10991.9	6056.0	834.1	678.1	661.0	533.6	420.6	369.1	344.8	331.9	327.6
70°	10371.0	5538.1	794.0	662.4	636.6	512.2	407.7	357.7	330.5	316.2	313.3
72.5°	8276.4	4345.0	695.3	602.3	542.2	430.6	362.0	321.9	296.1	280.4	276.1
75°	4769.9	2354.9	576.6	523.6	436.4	334.8	306.2	280.4	260.4	246.1	241.8
77.5°	1467.9	909.9	417.8	413.5	320.5	259.0	244.6	234.6	220.3	204.6	201.7
80°	618.1	463.5	283.3	279.0	213.2	180.3	176.0	174.5	168.8	155.9	151.7
82.5°	339.1	261.8	197.4	171.7	128.8	104.4	108.7	110.2	105.9	93.0	84.4
85°	166.0	143.1	95.9	77.3	58.7	37.2	35.8	42.9	40.1	28.6	31.5
87.5°	32.9	40.1	25.8	11.4	5.7	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)