

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: P646942

Luminaire Tested: **GALN-SA5C-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646942  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27517.8 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

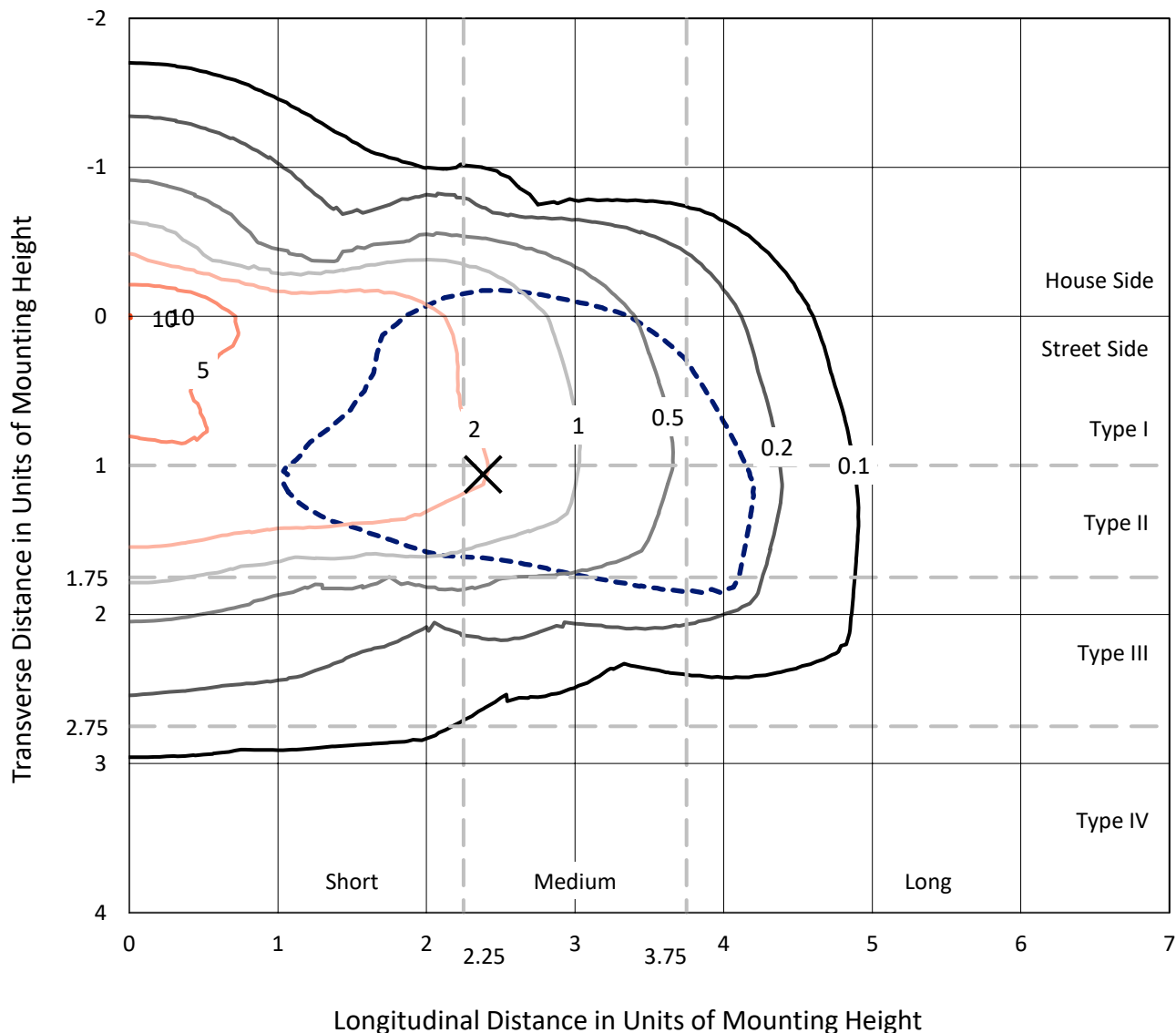
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

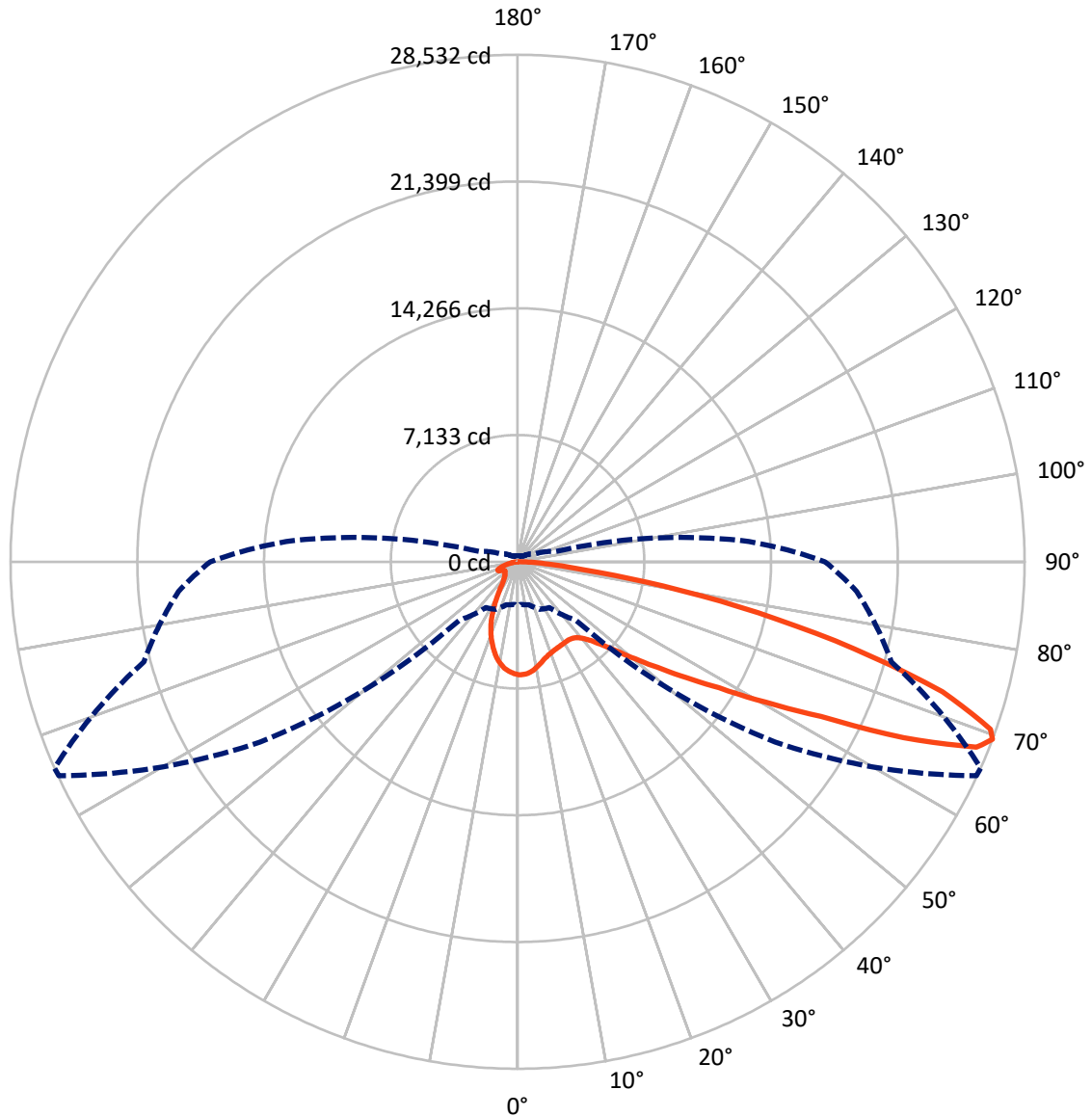
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5175.1	0.0	5175.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	22342.7	0.0	22342.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	27517.8	0.0	27517.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	551.8	2.0
10°-20°	1308.9	4.8
20°-30°	1781.9	6.5
30°-40°	2394.5	8.7
40°-50°	3575.3	13.0
50°-60°	5687.2	20.7
60°-70°	6994.9	25.4
70°-80°	4551.2	16.5
80°-90°	672.1	2.4
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°	27517.8	100.0
0°-180°	27517.8	100.0

**Coefficient of Utilization**

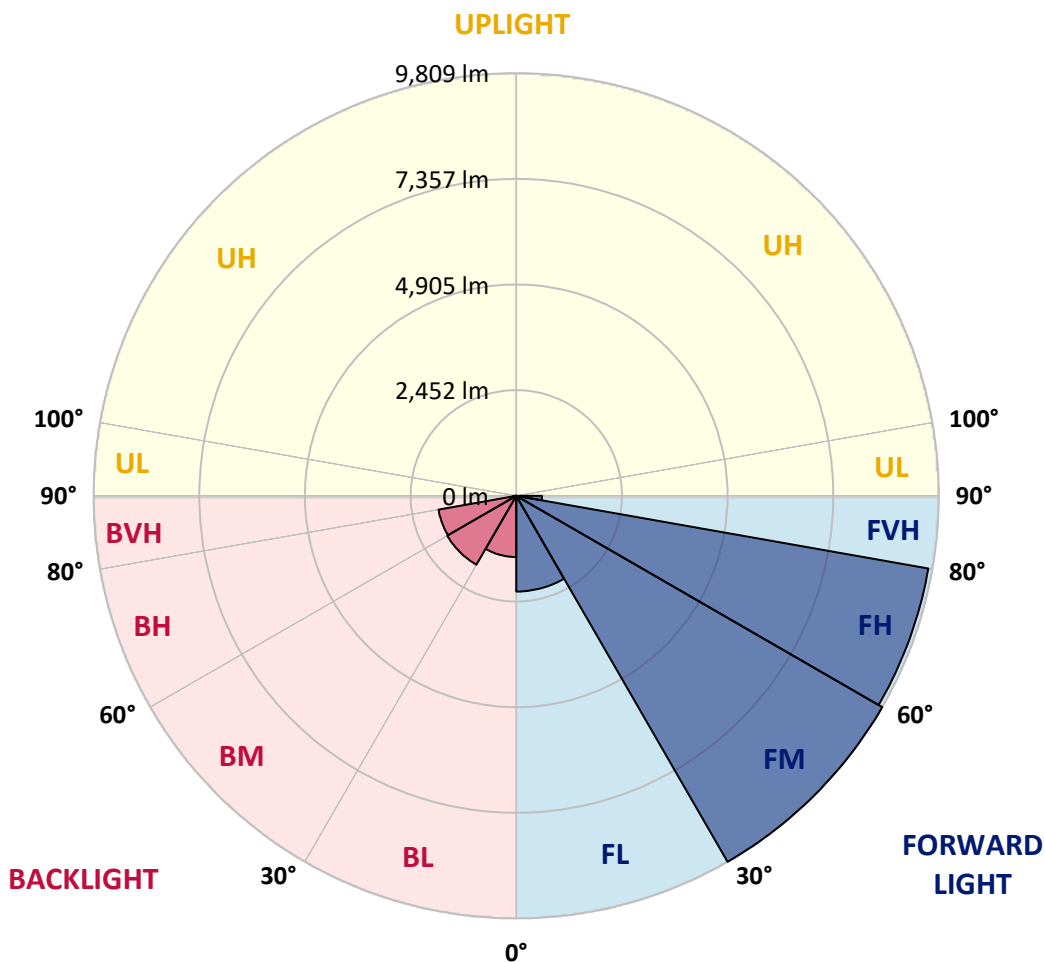


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2222.0	8.1			
FM (30°-60°)	9809.2	35.6			
FH (60°-80°)	9713.9	35.3			G4/12000
FVH (80°-90°)	597.5	2.2			G4/750
BL (0°-30°)	1420.6	5.2	B3/2500		
BM (30°-60°)	1847.7	6.7	B2/2500		
BH (60°-80°)	1832.2	6.7	B3/2500		G3/2500
BVH (80°-90°)	74.6	0.3			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6354.6	6354.6	6354.6	6354.6	6354.6	6354.6	6354.6	6354.6	6354.6	6354.6	6354.6
2.5°	6132.1	6156.5	6183.9	6214.4	6272.3	6304.3	6327.2	6353.1	6356.2	6369.9	6359.2
5°	5679.6	5708.5	5749.6	5807.5	5894.4	6030.0	6170.2	6284.5	6298.2	6362.3	6380.5
7.5°	5301.6	5318.4	5351.9	5444.8	5568.3	5719.2	5923.3	6155.0	6188.5	6340.9	6394.2
10°	4993.8	5010.6	5050.2	5146.2	5268.1	5457.0	5681.1	5985.8	6013.3	6275.4	6397.3
12.5°	4763.7	4778.9	4821.6	4916.1	5056.2	5233.0	5479.9	5803.0	5842.6	6188.5	6368.3
15°	4588.5	4617.4	4652.4	4730.2	4877.9	5048.6	5287.9	5635.3	5667.4	6097.1	6348.5
17.5°	4513.8	4527.5	4551.9	4623.5	4731.7	4899.3	5140.1	5504.3	5542.4	6033.1	6343.9
20°	4516.8	4530.5	4535.1	4574.7	4652.4	4797.2	5034.9	5400.7	5446.4	5976.7	6351.5
22.5°	4620.4	4622.0	4605.2	4591.5	4622.0	4742.3	4960.2	5322.9	5376.3	5952.3	6357.6
25°	4780.4	4807.9	4783.5	4719.5	4663.1	4721.0	4931.3	5280.2	5330.6	5917.3	6350.1
27.5°	5039.5	5044.1	5024.3	4937.4	4791.1	4748.4	4919.1	5248.3	5291.0	5891.4	6311.9
30°	5387.0	5373.3	5354.9	5258.9	5028.8	4853.6	4945.0	5219.3	5263.5	5853.2	6266.2
32.5°	5739.0	5781.6	5764.8	5652.1	5353.4	5057.8	5028.8	5216.3	5252.8	5824.3	6215.9
35°	6112.3	6132.1	6211.4	6153.4	5847.1	5388.4	5185.8	5263.5	5292.5	5825.8	6180.9
37.5°	6404.9	6458.3	6644.1	6694.4	6406.4	5825.8	5440.3	5397.6	5409.8	5900.5	6194.6
40°	6758.5	6849.8	7089.1	7294.8	7105.9	6394.2	5873.0	5646.0	5661.2	6080.3	6284.5
42.5°	7206.5	7270.5	7592.0	7870.9	7840.4	7145.5	6397.3	6052.9	6060.5	6438.5	6535.9
45°	7730.7	7822.1	8183.3	8602.4	8674.0	7995.8	7154.7	6668.5	6664.0	6994.6	7005.3
47.5°	8401.2	8457.6	8815.7	9272.8	9562.4	9064.1	8073.6	7552.4	7503.6	7805.3	7718.5
50°	9018.4	9106.8	9378.0	9877.9	10598.6	10315.2	9282.0	8698.3	8584.0	8866.0	8719.7
52.5°	9277.5	9370.4	9599.0	10219.2	11487.1	11933.5	10816.6	10065.3	9874.8	10091.2	10037.8
55°	8827.9	8948.3	9161.6	9915.9	11877.2	13800.3	12886.0	11645.6	11506.9	11413.9	11429.1
57.5°	7619.5	7733.8	8021.8	8853.8	11410.9	15155.0	15840.8	13676.9	13379.7	12951.5	13024.7
60°	5799.9	5871.6	6020.9	6942.9	10028.7	15507.1	19196.4	16244.7	16055.6	14483.0	14534.8
62.5°	4119.0	4199.9	4303.4	4763.7	7342.1	14515.0	21823.6	19830.3	19155.3	16069.4	16019.1
65°	3344.9	3290.1	3415.1	3629.9	4308.1	11249.4	22414.9	24807.4	23877.8	18158.6	17460.7
67.5°	2750.6	2692.7	2816.1	3198.6	3276.4	6529.8	20284.5	28038.1	27852.1	20430.7	18925.2
69°	2435.2	2404.7	2512.9	2948.7	3145.3	4637.2	17671.0	28487.6	28531.7	21770.3	19150.7
70°	2194.4	2206.6	2311.7	2822.2	3085.9	3823.5	15103.3	27867.4	28242.2	22439.2	18906.9
72.5°	1615.3	1641.2	1787.5	2337.6	3029.5	3244.4	8987.9	24341.0	25003.9	22478.9	17296.2
75°	1129.2	1117.0	1246.5	1760.1	2861.9	3215.4	5278.8	18824.6	19575.9	19429.6	14533.3
77.5°	739.1	758.9	862.6	1243.5	2407.7	3191.0	3441.0	13355.3	13843.0	12994.2	8596.2
80°	521.2	519.7	577.5	848.8	1786.0	3066.1	2817.7	8418.0	8294.6	5106.6	2549.4
82.5°	298.7	320.0	387.0	597.4	1194.7	2698.8	2592.1	4026.1	3675.6	1455.3	861.0
85°	166.1	173.7	230.1	361.2	698.0	2032.9	2262.9	1831.8	1728.1	608.0	370.3
87.5°	53.3	57.9	96.0	182.8	317.0	960.0	1281.6	845.8	780.3	219.5	149.3
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°	6354.6	6354.6	6354.6	6354.6	6354.6	6354.6	6354.6	6354.6	6354.6	6354.6	6354.6
2.5°	6363.8	6382.1	6333.3	6286.0	6243.4	6183.9	6130.6	6086.4	6056.0	6051.3	6036.1
5°	6385.1	6386.6	6293.7	6168.7	6046.8	5912.7	5774.0	5674.9	5582.0	5530.2	5504.3
7.5°	6400.3	6386.6	6219.0	6016.3	5781.6	5537.8	5294.0	5098.9	4948.1	4888.7	4911.5
10°	6394.2	6351.5	6106.2	5781.6	5440.3	5076.0	4725.6	4451.3	4199.9	4070.3	4073.3
12.5°	6360.7	6290.6	5938.6	5518.0	5016.6	4529.0	3992.6	3622.3	3331.2	3159.0	3105.7
15°	6331.7	6209.8	5742.0	5159.9	4536.6	3840.2	3186.4	2729.3	2485.5	2349.9	2348.3
17.5°	6301.3	6132.1	5527.1	4780.4	3985.0	3088.9	2403.2	2054.2	1939.9	1953.7	1930.8
20°	6269.2	6040.7	5303.1	4358.3	3313.0	2304.1	1799.7	1658.0	1690.0	1752.4	1761.6
22.5°	6232.7	5943.1	5062.3	3893.5	2605.8	1734.2	1459.9	1438.5	1520.8	1618.4	1632.1
25°	6176.3	5821.3	4759.1	3407.4	2010.0	1397.4	1278.6	1293.8	1374.6	1456.8	1466.0
27.5°	6097.1	5670.4	4452.8	2800.9	1510.2	1199.3	1168.8	1188.6	1228.3	1278.6	1290.7
30°	5990.4	5499.7	4100.8	2276.7	1210.0	1100.3	1088.1	1098.7	1121.6	1142.9	1149.0
32.5°	5883.7	5335.1	3745.7	1743.3	1078.9	1034.7	1022.5	1022.5	1022.5	1025.6	1027.1
35°	5784.6	5179.7	3364.7	1357.8	1010.3	982.9	966.1	947.8	944.8	934.1	934.1
37.5°	5729.8	5038.0	2959.4	1136.8	960.0	940.2	917.4	886.9	870.1	871.6	868.6
40°	5740.5	4945.0	2590.6	1011.9	918.9	897.6	862.6	827.5	816.8	816.8	813.8
42.5°	5860.9	4914.6	2237.0	946.3	879.3	854.9	810.7	778.7	772.6	771.1	774.2
45°	6138.3	4989.2	1920.1	903.7	845.8	809.2	765.0	736.0	729.9	729.9	728.4
47.5°	6679.2	5231.5	1693.0	876.3	821.4	774.2	728.4	699.5	688.8	685.8	685.8
50°	7520.4	5757.2	1523.9	851.8	790.9	742.1	694.9	661.4	644.6	643.1	641.6
52.5°	8689.2	6577.1	1458.3	833.6	757.4	708.6	656.8	624.8	603.5	598.9	595.9
55°	10056.1	7721.6	1548.3	819.9	722.3	670.5	617.2	583.6	563.8	554.7	553.2
57.5°	11639.5	9096.1	1889.6	801.6	690.3	629.4	577.5	544.0	522.7	512.0	509.0
60°	13061.2	10508.7	2485.5	790.9	662.9	585.1	531.8	501.4	481.5	470.9	469.3
62.5°	14623.2	11855.9	3197.1	819.9	650.7	542.5	489.1	461.7	445.0	434.3	434.3
65°	16291.9	13204.5	3668.0	917.4	669.0	509.0	443.4	420.6	405.4	397.8	396.2
67.5°	17416.5	13670.8	3021.8	1018.0	714.7	472.4	399.3	381.0	371.8	364.2	364.2
69°	17294.6	13081.0	2229.4	1043.9	728.4	454.1	374.9	361.2	349.0	345.9	342.9
70°	16909.0	12409.0	1868.3	1027.1	717.8	437.4	359.6	342.9	332.2	329.2	327.6
72.5°	15060.6	10761.7	1391.3	893.0	611.1	379.4	318.5	303.3	294.1	289.6	289.6
75°	12512.7	8795.9	1086.6	710.1	478.5	320.0	272.8	260.6	253.0	249.9	248.4
77.5°	7012.9	4911.5	780.3	556.2	362.7	259.1	228.6	217.9	210.3	207.3	207.3
80°	1953.7	1403.5	458.7	367.2	246.9	196.6	181.3	173.7	163.0	155.4	160.0
82.5°	736.0	608.0	262.1	221.0	157.0	131.1	126.5	120.4	115.8	105.2	105.2
85°	358.1	295.7	167.6	117.4	86.8	68.6	65.5	62.5	59.4	51.8	53.3
87.5°	123.4	131.1	73.1	42.7	25.9	16.8	13.7	7.6	7.6	7.6	7.6
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)