

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: P648182

Luminaire Tested: **GALN-SA9A-835-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648182  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-835-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33218.8 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

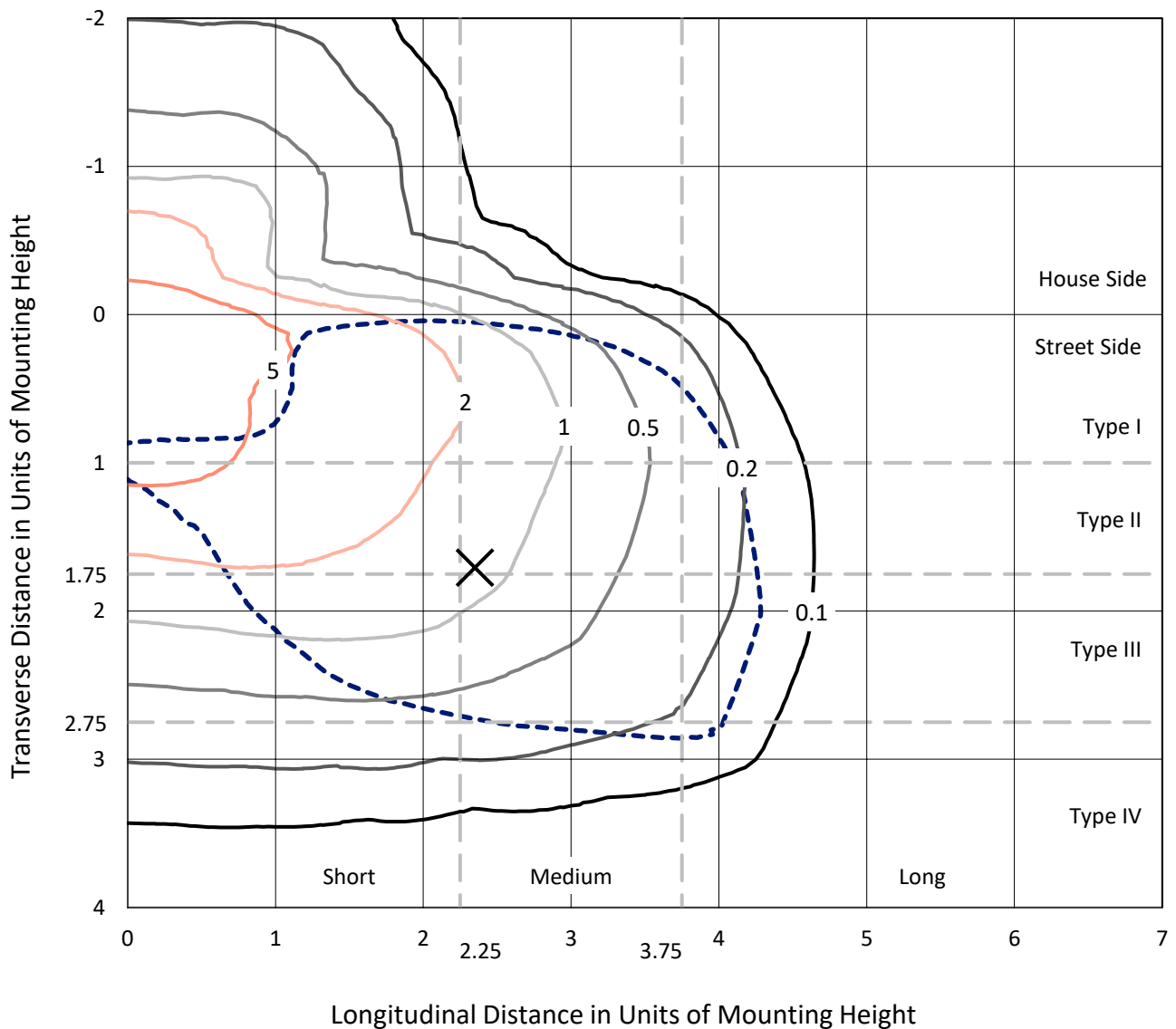
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

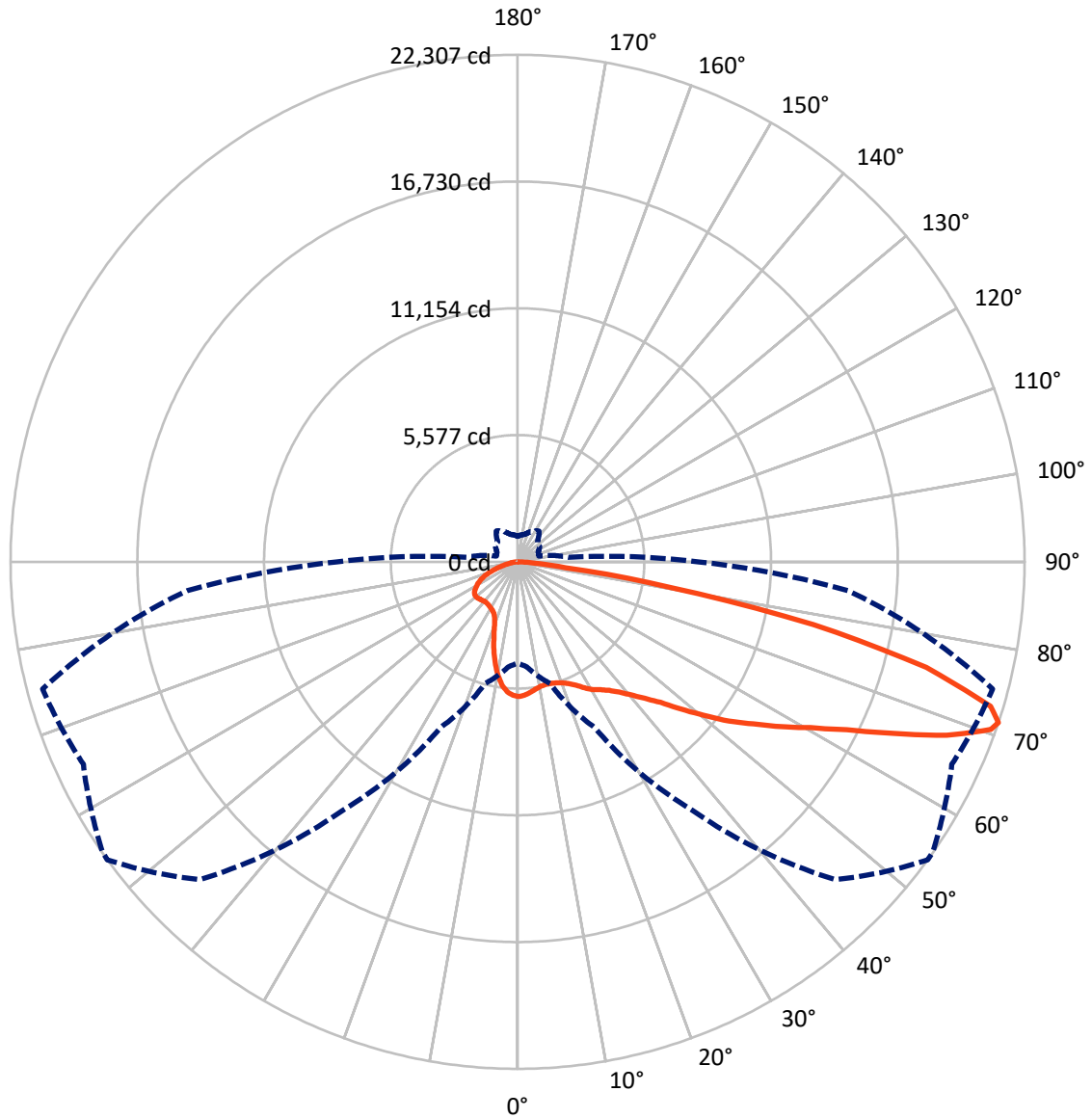
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5997.4	0.0	5997.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	27221.3	0.0	27221.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	33218.8	0.0	33218.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.2	1.6
10°-20°	1394.6	4.2
20°-30°	2322.1	7.0
30°-40°	3433.6	10.3
40°-50°	4836.3	14.6
50°-60°	6476.1	19.5
60°-70°	8162.6	24.6
70°-80°	5575.0	16.8
80°-90°	490.3	1.5
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°	33218.8	100.0
0°-180°	33218.8	100.0

**Coefficient of Utilization**

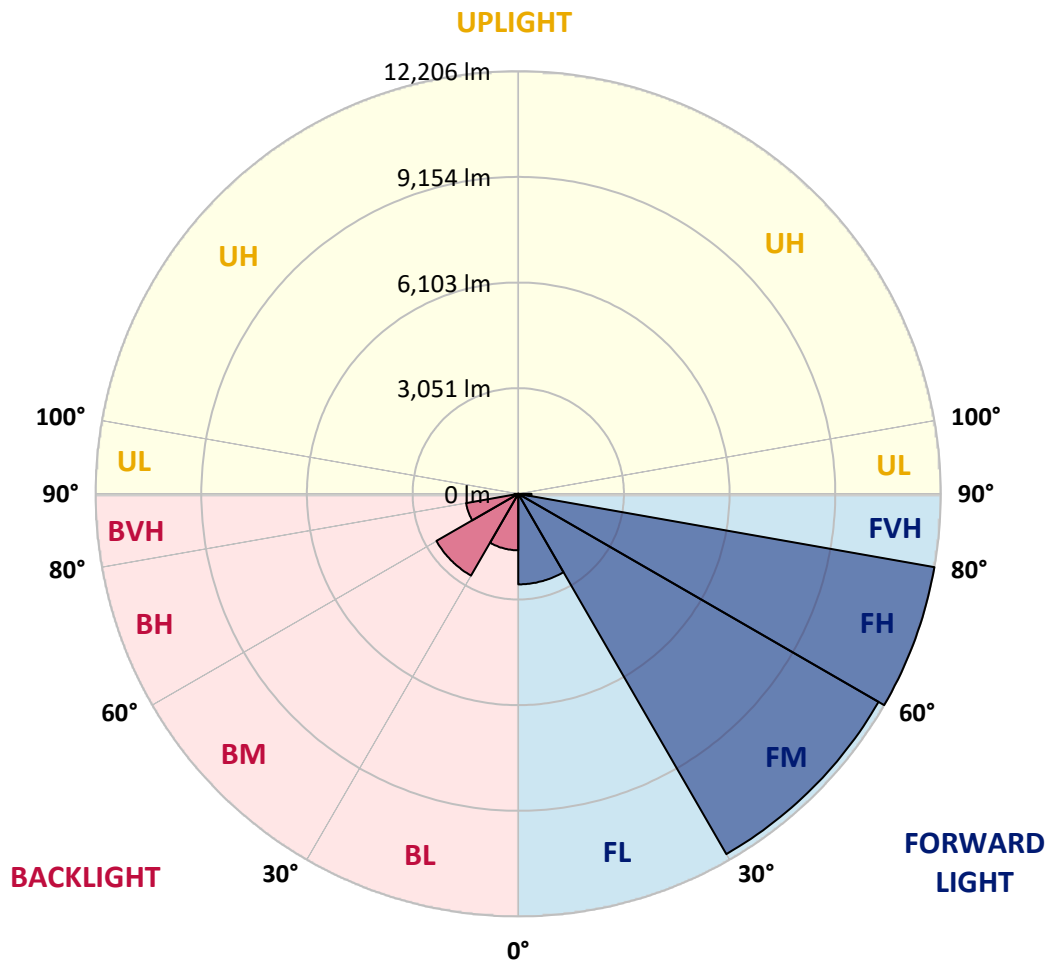


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2614.9	7.9			
FM (30°-60°)	12017.4	36.2			
FH (60°-80°)	12205.9	36.7			G5
FVH (80°-90°)	383.2	1.2			G3/500
BL (0°-30°)	1630.0	4.9	B3/2500		
BM (30°-60°)	2728.7	8.2	B3/5000		
BH (60°-80°)	1531.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	107.1	0.3			G2/225
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5926.7	5926.7	5926.7	5926.7	5926.7	5926.7	5926.7	5926.7	5926.7	5926.7	5926.7
2.5°	5725.8	5752.7	5759.8	5777.8	5815.5	5846.0	5876.5	5872.9	5916.0	5933.9	5950.0
5°	5471.0	5478.1	5505.0	5540.9	5607.3	5691.6	5774.2	5776.0	5881.9	5966.2	6007.5
7.5°	5284.3	5307.6	5325.7	5363.3	5433.3	5524.8	5655.8	5666.6	5855.0	6021.8	6109.7
10°	5162.3	5189.3	5209.0	5255.7	5325.7	5427.9	5569.6	5589.4	5835.2	6109.7	6264.1
12.5°	5051.1	5078.0	5095.9	5156.9	5248.4	5374.0	5533.8	5557.1	5842.4	6212.0	6432.7
15°	5119.3	5140.8	5133.6	5151.6	5212.6	5356.1	5548.1	5571.4	5869.3	6310.7	6599.6
17.5°	5422.5	5440.4	5381.2	5313.0	5284.3	5390.3	5593.0	5618.1	5923.2	6413.0	6770.1
20°	5869.3	5917.8	5788.6	5636.0	5497.8	5512.2	5686.3	5713.2	5998.5	6515.3	6944.1
22.5°	6450.7	6486.5	6328.7	6077.4	5822.6	5691.6	5826.2	5842.4	6111.5	6648.1	7134.3
25°	7134.3	7155.8	6936.9	6613.9	6246.1	5998.5	6018.2	6047.0	6298.1	6798.8	7303.0
27.5°	7798.2	7866.4	7613.4	7218.6	6734.2	6321.5	6282.0	6299.9	6500.9	6883.1	7419.6
30°	8585.9	8580.6	8313.2	7855.6	7234.8	6673.2	6531.4	6527.8	6610.4	6924.4	7504.0
32.5°	9214.0	9287.6	9025.6	8526.7	7807.2	7037.4	6703.7	6696.5	6694.7	6996.2	7629.6
35°	9928.1	9938.9	9698.5	9196.0	8426.3	7495.0	6944.1	6908.3	6867.0	7150.4	7800.0
37.5°	10566.9	10617.2	10396.4	9833.0	9034.5	7970.5	7274.3	7251.0	7125.4	7417.8	8072.7
40°	11065.7	11103.4	10970.6	10434.1	9633.9	8483.6	7694.1	7651.1	7498.6	7855.6	8437.0
42.5°	11229.0	11306.1	11358.2	11094.4	10322.8	9092.0	8210.9	8157.1	8040.5	8519.6	8856.9
45°	11241.6	11363.6	11638.1	11650.6	11015.5	9820.5	8813.8	8776.2	8767.2	9370.1	9447.2
47.5°	11146.5	11270.3	11731.5	11980.8	11632.7	10556.1	9684.1	9624.9	9630.3	10421.6	10109.3
50°	10916.8	11063.9	11623.8	12192.6	12115.4	11320.5	10602.8	10583.0	10694.3	11622.0	10796.6
52.5°	10484.4	10662.0	11512.5	12325.4	12474.3	11979.0	11647.1	11591.5	11873.2	12924.7	11548.4
55°	9287.6	9554.9	11105.2	12399.0	12815.2	12608.9	12587.4	12687.8	13061.1	14345.8	12375.6
57.5°	8663.1	8864.0	10220.6	12411.5	13245.9	13341.0	13685.4	13710.6	14363.7	15854.8	13310.5
60°	8322.2	8499.8	9736.1	12329.0	13847.0	14247.1	14808.7	14898.5	15635.9	17489.5	14279.4
62.5°	8024.3	8176.9	9445.4	12043.6	14525.2	15591.1	16263.9	16307.0	17080.4	19294.6	15235.8
65°	7322.7	7496.8	8860.5	11758.3	15110.2	17270.6	18194.6	18144.4	18618.1	20852.1	15835.1
67.5°	6377.1	6597.8	7767.8	10773.2	15399.1	19106.2	20369.4	20306.6	20136.2	21873.0	16007.3
70°	5169.5	5287.9	6369.9	9070.4	14245.3	20069.8	22086.6	22020.2	21076.4	22007.6	15192.7
71°	4448.1	4633.0	5546.3	8056.6	13285.3	19775.4	22307.3	22289.3	21078.2	21636.2	14579.1
72.5°	3472.1	3585.1	4392.6	6242.5	11291.8	18103.1	21761.8	21830.0	20620.6	20604.5	13314.1
75°	2196.3	2246.5	2756.1	3674.9	6195.9	12820.6	18576.8	18761.7	18309.5	16865.0	9901.2
77.5°	1275.7	1340.3	1650.8	2165.8	2677.2	6958.4	13292.5	13493.4	12721.9	9285.8	4053.4
80°	742.8	814.6	1087.4	1257.8	1229.2	2582.1	6768.3	7111.0	5508.6	2345.2	1137.6
82.5°	412.7	461.1	764.4	766.2	654.9	843.4	2129.9	2228.6	1571.9	945.6	464.7
85°	299.7	339.1	493.4	446.8	314.0	362.5	741.0	777.0	635.2	398.3	150.7
87.5°	105.9	150.7	270.9	215.3	86.1	75.3	213.5	174.1	161.5	111.3	34.1
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°	5926.7	5926.7	5926.7	5926.7	5926.7	5926.7	5926.7	5926.7	5926.7	5926.7	5926.7
2.5°	5959.0	5962.6	5944.7	5912.4	5880.1	5838.8	5792.2	5756.2	5740.1	5738.3	5736.5
5°	6023.6	6032.6	5964.4	5863.9	5752.7	5616.3	5499.6	5366.9	5332.8	5279.0	5295.1
7.5°	6127.7	6122.3	5987.8	5774.2	5514.0	5225.1	4981.1	4839.3	4692.2	4650.9	4652.7
10°	6276.6	6242.5	5987.8	5591.2	5156.9	4728.1	4387.1	4171.8	4055.2	3958.3	3922.4
12.5°	6434.5	6348.4	5930.3	5334.6	4697.6	4171.8	3805.8	3515.1	3439.8	3360.8	3362.6
15°	6585.3	6441.7	5817.3	4973.9	4202.4	3577.9	3222.7	3048.6	3025.3	3034.2	3032.5
17.5°	6721.6	6508.1	5645.0	4572.0	3624.6	3068.3	2880.0	2892.5	2955.3	3000.1	3005.5
20°	6859.8	6547.6	5388.4	4033.7	3079.1	2759.7	2766.9	2865.5	2960.7	3021.7	3030.7
22.5°	6990.8	6565.5	5087.0	3513.3	2684.4	2628.7	2734.5	2840.4	2933.7	2992.9	3001.9
25°	7076.9	6524.3	4659.9	2969.6	2490.6	2582.1	2693.3	2783.0	2861.9	2923.0	2937.3
27.5°	7100.2	6391.5	4130.6	2530.0	2400.8	2537.2	2639.5	2705.9	2766.9	2824.3	2835.1
30°	7087.6	6195.9	3549.2	2271.6	2348.8	2485.2	2564.1	2612.6	2686.2	2731.0	2740.0
32.5°	7067.9	5968.0	2942.7	2133.4	2305.7	2436.7	2483.4	2526.4	2524.6	2506.7	2519.2
35°	7075.1	5695.2	2451.1	2050.9	2268.0	2400.8	2440.3	2386.5	2232.2	2225.0	2217.8
37.5°	7112.8	5426.1	2094.0	1993.5	2248.3	2395.4	2417.0	2169.4	2033.0	1970.2	1954.1
40°	7209.7	5112.1	1858.9	1950.5	2246.5	2436.7	2311.1	2059.9	1797.9	1675.9	1666.9
42.5°	7338.9	4803.5	1715.4	1923.5	2268.0	2499.5	2268.0	1905.6	1620.3	1548.5	1537.7
45°	7530.9	4449.9	1636.5	1911.0	2300.4	2522.8	2253.7	1792.5	1548.5	1491.1	1491.1
47.5°	7748.0	4112.6	1593.4	1902.0	2341.6	2506.7	2126.3	1756.7	1514.4	1521.6	1555.7
50°	7963.3	3820.2	1561.1	1882.3	2377.5	2497.7	2074.2	1754.9	1523.4	1614.9	1675.9
52.5°	8212.7	3613.8	1521.6	1850.0	2377.5	2440.3	2058.1	1790.7	1548.5	1575.4	1602.3
55°	8514.2	3549.2	1471.3	1780.0	2334.4	2296.8	2049.1	1842.8	1566.5	1503.7	1514.4
57.5°	8912.5	3653.3	1422.9	1692.1	2235.8	2147.8	2045.6	1857.1	1525.2	1473.1	1462.4
60°	9375.5	3859.6	1408.5	1602.3	2101.2	2020.5	2024.1	1815.9	1467.8	1413.9	1422.9
62.5°	9700.2	3983.4	1399.6	1534.1	1954.1	1880.5	1972.0	1765.7	1442.7	1396.0	1404.9
65°	9700.2	3832.7	1317.1	1430.1	1763.9	1711.8	1909.2	1702.9	1410.3	1356.5	1347.5
67.5°	9332.4	3393.1	1191.4	1274.0	1553.9	1519.8	1821.3	1627.5	1361.9	1320.6	1299.1
70°	8374.2	2573.1	1033.6	1091.0	1288.3	1318.8	1708.2	1525.2	1281.1	1231.0	1198.6
71°	7952.5	2241.1	967.2	997.6	1186.1	1231.0	1654.4	1482.1	1245.3	1173.5	1116.1
72.5°	7139.7	1887.7	866.7	879.2	1013.8	1094.6	1541.3	1399.6	1177.1	1074.8	1010.2
75°	5424.3	1378.1	698.0	690.8	750.0	868.4	1304.5	1247.1	1031.8	893.6	855.9
77.5°	2343.4	750.0	522.2	527.5	509.6	658.5	1026.4	1071.2	884.6	726.7	692.6
80°	710.6	432.5	357.0	364.3	340.9	441.4	723.1	839.8	710.6	565.2	518.6
82.5°	364.3	258.4	244.1	240.5	217.1	249.4	437.9	574.2	507.8	353.5	312.2
85°	157.9	138.2	120.2	116.7	102.3	89.7	156.1	287.1	269.1	197.4	188.4
87.5°	39.5	35.9	23.3	21.5	12.5	1.8	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)