

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: P648119

Luminaire Tested: **GALN-SA8A-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29467.4 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

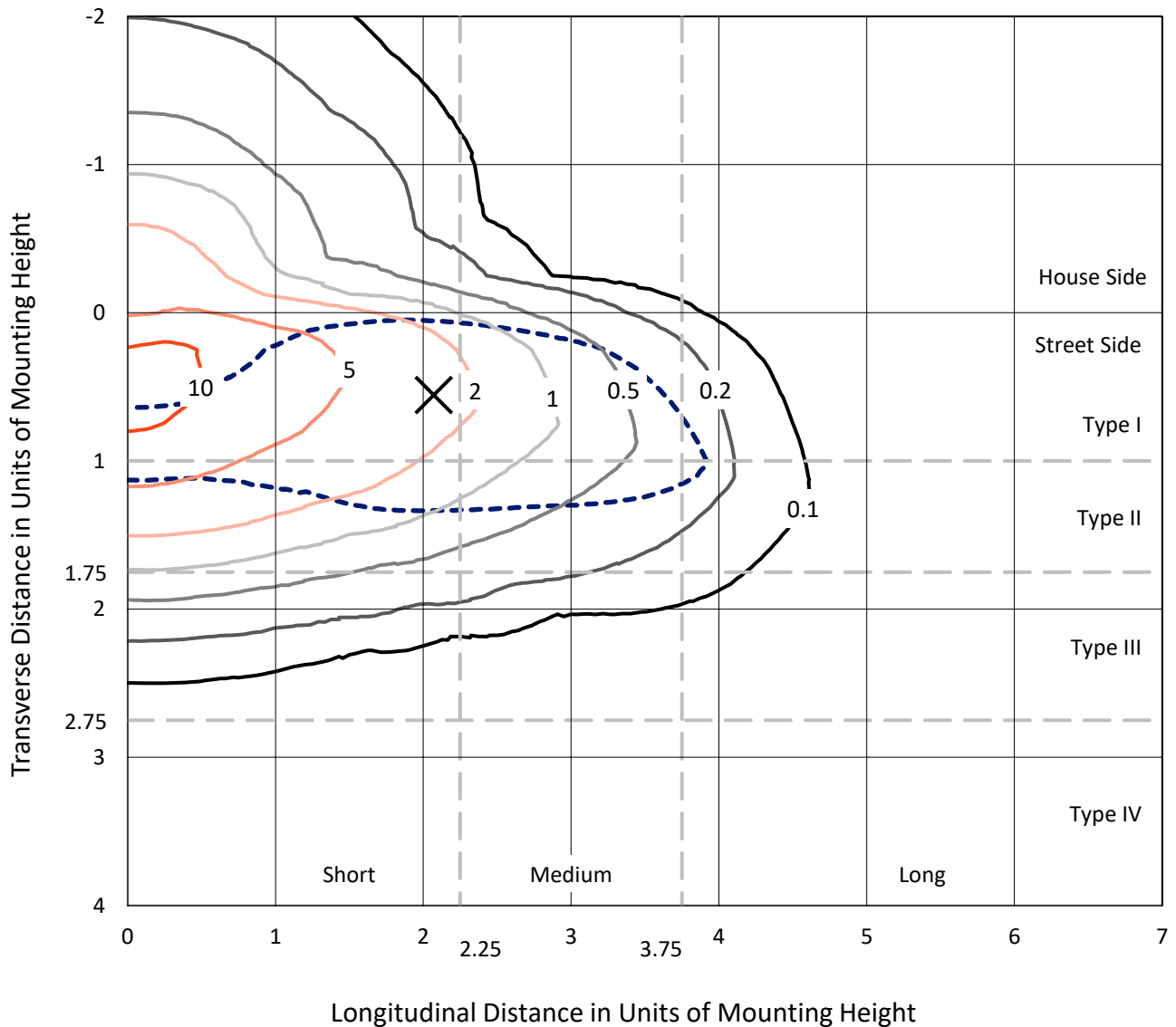
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

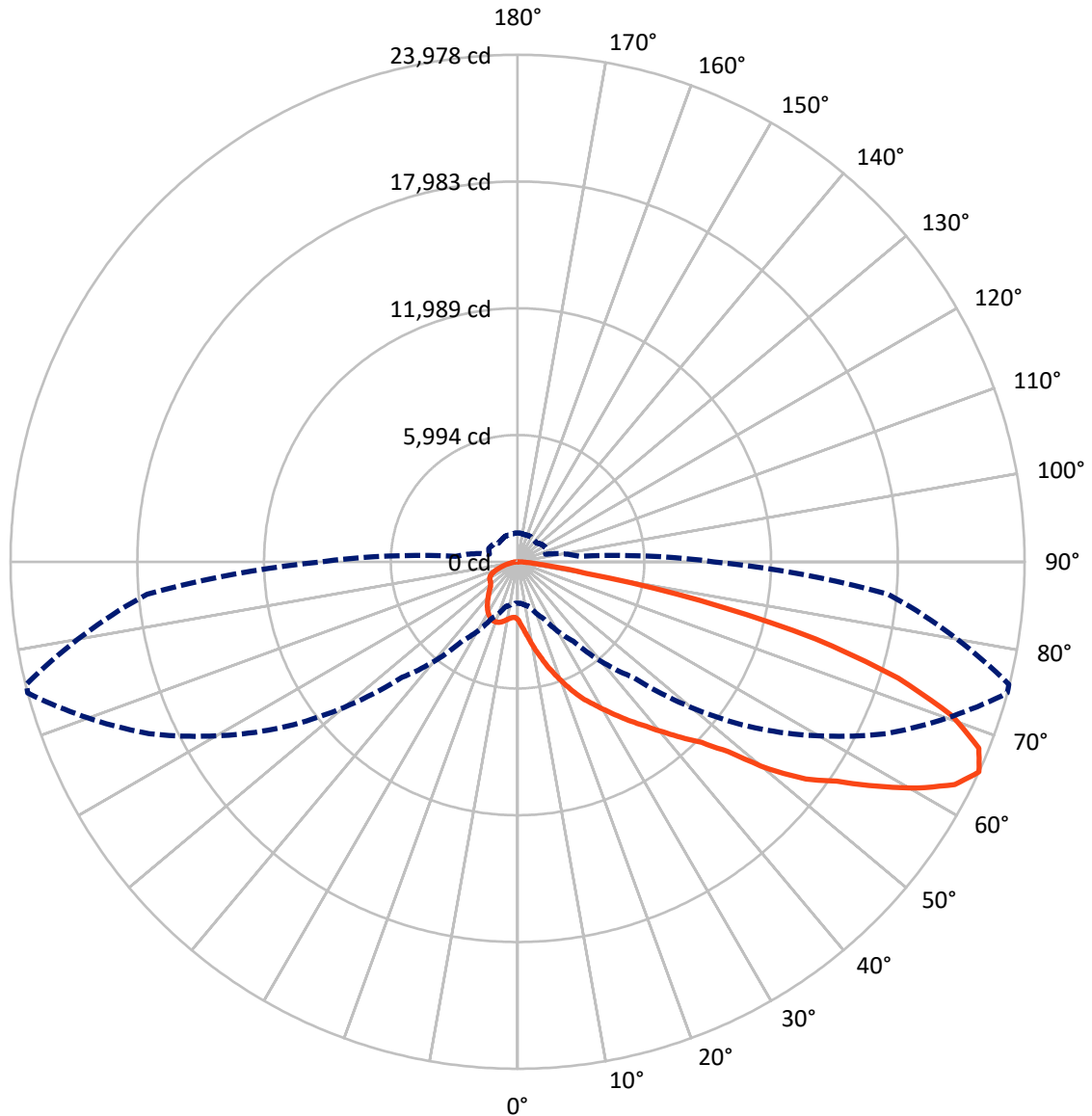
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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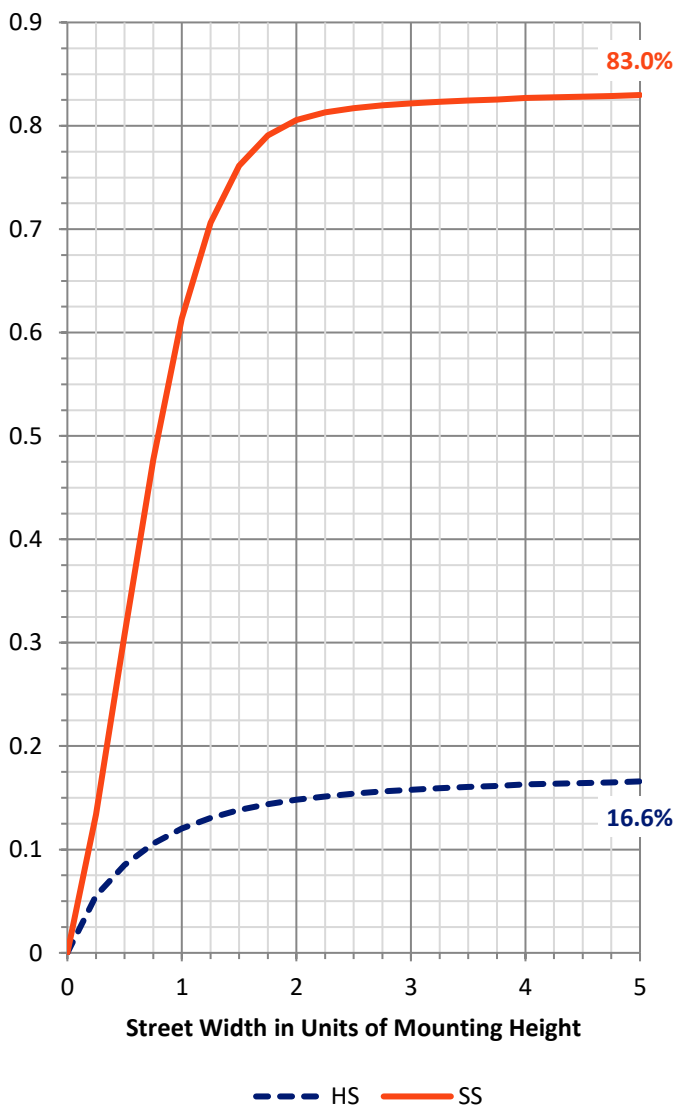
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4953.8	0.0	4953.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	24513.6	0.0	24513.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	29467.4	0.0	29467.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.6	1.1
10°-20°	1302.9	4.4
20°-30°	2516.8	8.5
30°-40°	4088.1	13.9
40°-50°	5623.5	19.1
50°-60°	6639.4	22.5
60°-70°	5817.3	19.7
70°-80°	2777.2	9.4
80°-90°	369.5	1.3
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°	29467.4	100.0
0°-180°	29467.4	100.0

**Coefficient of Utilization**



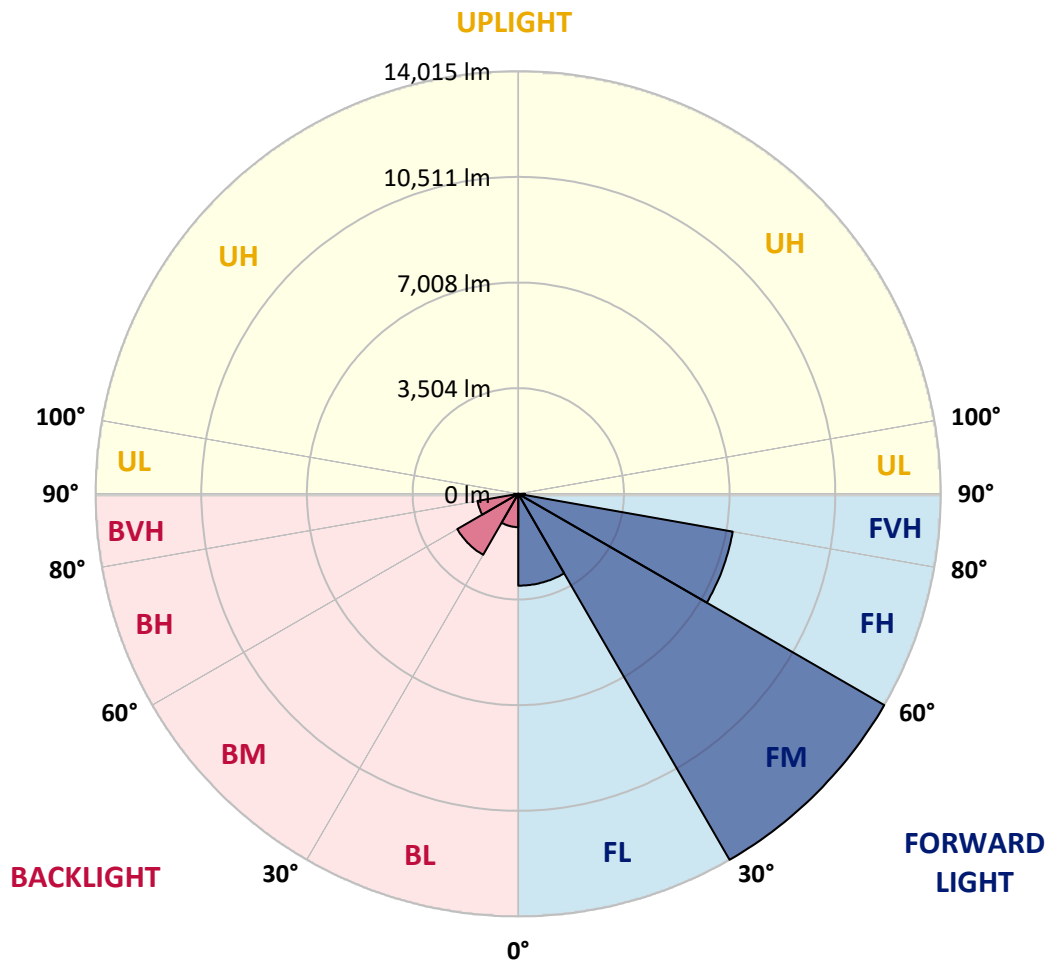
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3046.5	10.3			
FM (30°-60°)	14015.3	47.6			
FH (60°-80°)	7220.8	24.5			G3/7500
FVH (80°-90°)	230.9	0.8			G3/500
BL (0°-30°)	1105.9	3.8	B3/2500		
BM (30°-60°)	2335.7	7.9	B2/2500		
BH (60°-80°)	1373.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	138.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9
2.5°	3637.7	3613.8	3588.2	3517.9	3442.8	3358.1	3236.5	3119.9	2964.8	2960.1	2845.0
5°	4646.2	4630.3	4516.8	4451.3	4277.1	4045.3	3848.7	3543.5	3260.6	3227.0	3003.2
7.5°	5573.3	5511.0	5467.8	5349.5	5176.9	4879.7	4499.2	4086.9	3613.8	3569.0	3198.2
10°	6271.8	6265.3	6243.0	6140.7	6011.2	5715.5	5293.5	4702.2	4061.3	3973.4	3434.8
12.5°	6794.4	6799.2	6796.0	6794.4	6701.7	6450.7	5993.6	5370.3	4513.6	4451.3	3708.1
15°	7138.1	7186.0	7205.2	7285.1	7293.1	7125.2	6732.1	6016.0	5023.5	4930.8	4002.1
17.5°	7365.0	7388.9	7478.4	7614.4	7724.6	7694.2	7344.2	6613.8	5544.5	5389.5	4307.4
20°	7582.3	7623.9	7692.7	7878.1	8073.0	8162.5	7916.4	7225.9	6060.7	5961.7	4644.7
22.5°	8034.7	8093.8	8117.8	8212.1	8378.3	8536.6	8424.7	7812.5	6626.6	6492.3	5002.7
25°	8800.3	8862.6	8795.4	8773.1	8827.5	8905.8	8881.8	8365.5	7160.4	6968.6	5341.5
27.5°	9797.6	9805.6	9674.5	9549.9	9415.6	9375.6	9302.1	8856.2	7623.9	7464.1	5682.0
30°	10868.5	10830.1	10612.7	10387.4	10160.4	9936.7	9725.7	9329.3	8140.1	7956.4	6016.0
32.5°	11862.6	11841.9	11600.5	11250.5	10866.9	10655.9	10229.1	9807.2	8693.2	8515.8	6359.7
35°	12607.4	12637.8	12372.5	11990.5	11571.7	11384.7	10846.1	10309.1	9265.4	9072.0	6733.6
37.5°	13136.5	13120.5	12885.5	12554.7	12187.1	12024.1	11566.9	10857.3	9880.8	9695.3	7142.8
40°	13325.1	13315.5	13141.2	12899.9	12666.6	12609.0	12321.4	11448.6	10585.5	10368.2	7635.1
42.5°	13205.2	13226.0	13110.9	13045.3	13002.2	13043.8	13070.9	12223.8	11354.4	11154.5	8169.0
45°	12837.6	12826.4	12810.4	12917.5	13160.4	13433.8	13812.5	12955.8	12190.3	12030.4	8884.9
47.5°	12180.7	12260.6	12300.5	12596.2	13126.8	13774.2	14666.1	13937.2	13403.4	13264.3	9976.6
50°	11261.7	11325.5	11562.2	12088.0	12879.2	13902.1	15500.3	15541.9	15426.8	15166.3	11162.5
52.5°	9826.4	9925.5	10413.0	11376.8	12370.9	13849.3	16005.5	16918.0	17069.9	16874.9	12330.9
55°	8220.1	8359.2	8873.8	10138.0	11670.8	13561.6	16353.8	17715.6	18321.3	18140.8	13456.1
57.5°	6647.4	6794.4	7323.4	8547.7	10449.7	12925.5	16582.4	18604.2	20025.1	19790.2	14856.3
60°	4981.9	5135.4	5589.3	6850.3	8710.8	11682.0	16427.3	19374.6	21727.4	21626.7	16258.0
62.5°	3214.2	3383.6	3778.4	4822.1	6695.3	9983.0	15597.8	19799.8	23201.0	23079.6	17280.9
65°	1957.9	1977.1	2194.4	2993.6	4582.4	7729.4	13700.7	19235.6	23977.7	23941.0	17592.5
67.5°	1265.9	1296.3	1395.3	1793.3	2747.5	5368.7	10954.8	17373.6	23523.8	23511.1	16948.4
70°	1069.3	1078.8	1123.6	1209.9	1596.7	3255.7	7692.7	14405.6	21799.3	21799.3	15399.7
72.5°	955.8	968.6	984.5	1011.7	1139.6	1844.4	4590.3	11213.7	18821.6	18946.3	13107.7
75°	867.9	864.7	874.3	879.1	971.8	1205.1	2373.5	8293.6	14560.6	14311.2	9492.3
77.5°	743.2	748.0	743.2	764.0	858.3	917.4	1205.1	5565.3	8824.3	8501.3	4764.6
80°	610.6	618.6	626.6	639.3	733.6	696.9	724.0	2536.5	3263.7	3195.0	1472.0
82.5°	458.7	469.9	482.7	513.0	577.0	460.3	457.1	1083.7	1177.9	1078.8	541.8
85°	185.4	219.0	330.8	361.2	362.8	252.5	281.3	452.3	481.1	469.9	212.6
87.5°	43.1	51.1	107.1	161.5	148.6	94.3	103.9	147.0	167.8	155.0	72.0
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°	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9	2737.9
2.5°	2792.3	2736.3	2640.4	2566.9	2514.1	2467.8	2439.0	2421.4	2415.0	2413.4	2415.0
5°	2886.5	2787.5	2635.6	2539.7	2487.0	2456.6	2439.0	2437.4	2439.0	2440.6	2435.8
7.5°	3016.0	2873.8	2675.6	2586.1	2546.1	2523.7	2515.7	2512.6	2514.1	2512.6	2512.6
10°	3188.6	2993.6	2753.9	2661.2	2627.6	2602.1	2589.2	2581.2	2574.9	2568.5	2565.3
12.5°	3378.8	3126.3	2838.6	2749.1	2701.1	2661.2	2632.4	2611.6	2597.2	2582.9	2579.7
15°	3591.4	3266.9	2932.9	2808.2	2739.5	2680.4	2630.8	2597.2	2571.7	2550.9	2549.3
17.5°	3794.3	3399.6	2996.9	2835.4	2734.7	2651.6	2586.1	2539.7	2507.7	2480.5	2477.3
20°	4011.8	3525.8	3025.6	2817.8	2686.8	2586.1	2499.7	2443.8	2407.0	2376.6	2371.9
22.5°	4230.7	3633.0	3022.4	2761.9	2603.6	2485.4	2394.3	2335.1	2292.0	2261.6	2250.4
25°	4440.1	3719.2	2982.4	2672.4	2488.5	2365.5	2272.8	2218.5	2180.1	2143.3	2143.3
27.5°	4628.7	3770.4	2907.3	2563.7	2370.3	2240.8	2167.3	2117.8	2082.6	2058.6	2044.3
30°	4814.1	3794.3	2805.0	2426.2	2245.6	2135.3	2076.2	2047.5	2015.4	1988.3	1985.1
32.5°	4980.3	3789.6	2677.2	2292.0	2127.3	2049.0	2025.1	2002.7	1969.1	1930.7	1921.2
35°	5141.7	3757.6	2525.3	2145.0	2028.3	1997.9	2004.2	1972.3	1911.5	1863.6	1855.6
37.5°	5317.6	3700.1	2359.1	2025.1	1945.1	1973.9	1989.9	1919.6	1820.5	1745.4	1727.8
40°	5520.5	3634.5	2186.4	1905.2	1879.6	1951.5	1951.5	1822.0	1686.2	1639.8	1627.1
42.5°	5758.7	3580.2	2042.6	1804.5	1825.3	1897.2	1889.2	1692.6	1636.6	1612.7	1606.3
45°	6135.9	3561.0	1894.0	1716.6	1780.5	1833.2	1767.7	1647.8	1615.9	1596.7	1590.4
47.5°	6732.1	3583.4	1762.9	1651.0	1729.3	1769.3	1631.9	1617.5	1595.1	1568.0	1564.7
50°	7285.1	3562.6	1670.2	1614.3	1684.6	1692.6	1575.9	1580.7	1568.0	1537.6	1531.2
52.5°	7737.4	3497.1	1611.1	1595.1	1646.3	1558.3	1523.2	1540.8	1535.9	1497.6	1491.2
55°	8234.5	3457.1	1582.3	1595.1	1620.7	1441.7	1473.6	1499.2	1492.8	1465.6	1464.1
57.5°	8837.0	3465.1	1561.5	1599.9	1595.1	1382.5	1424.1	1454.4	1452.9	1444.9	1444.9
60°	9453.9	3468.3	1529.6	1598.3	1564.7	1336.2	1372.9	1416.1	1419.3	1424.1	1424.1
62.5°	9658.5	3329.2	1467.3	1569.5	1497.6	1291.4	1325.0	1384.1	1380.9	1393.7	1395.3
65°	9276.6	2944.1	1374.6	1504.0	1411.3	1259.5	1288.3	1342.6	1325.0	1358.6	1364.9
67.5°	8443.9	2435.8	1230.7	1385.8	1315.4	1225.9	1264.2	1285.1	1253.0	1318.6	1320.2
70°	7297.9	1902.0	1048.5	1217.9	1206.7	1190.7	1245.0	1213.1	1168.4	1248.3	1232.3
72.5°	6102.3	1452.9	837.5	995.7	1061.3	1138.0	1211.5	1120.4	1058.1	1082.0	1053.3
75°	4583.9	1074.0	672.9	779.9	883.9	1062.8	1181.2	1008.5	912.7	890.3	883.9
77.5°	2336.7	701.6	503.5	583.4	663.3	960.6	1139.6	877.5	756.0	720.8	704.9
80°	834.3	436.4	354.9	402.8	447.6	826.3	995.7	725.6	586.5	580.2	586.5
82.5°	386.8	281.3	238.1	263.7	265.3	551.4	759.2	541.8	445.9	677.7	572.2
85°	166.2	140.6	134.3	131.1	121.4	246.2	426.7	290.9	453.9	203.0	187.0
87.5°	49.6	55.9	49.6	36.7	27.2	27.2	43.1	16.0	11.2	8.0	8.0
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)