

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: P647514

Luminaire Tested: **GALN-SA6D-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647514  
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-SA6D-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36606 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

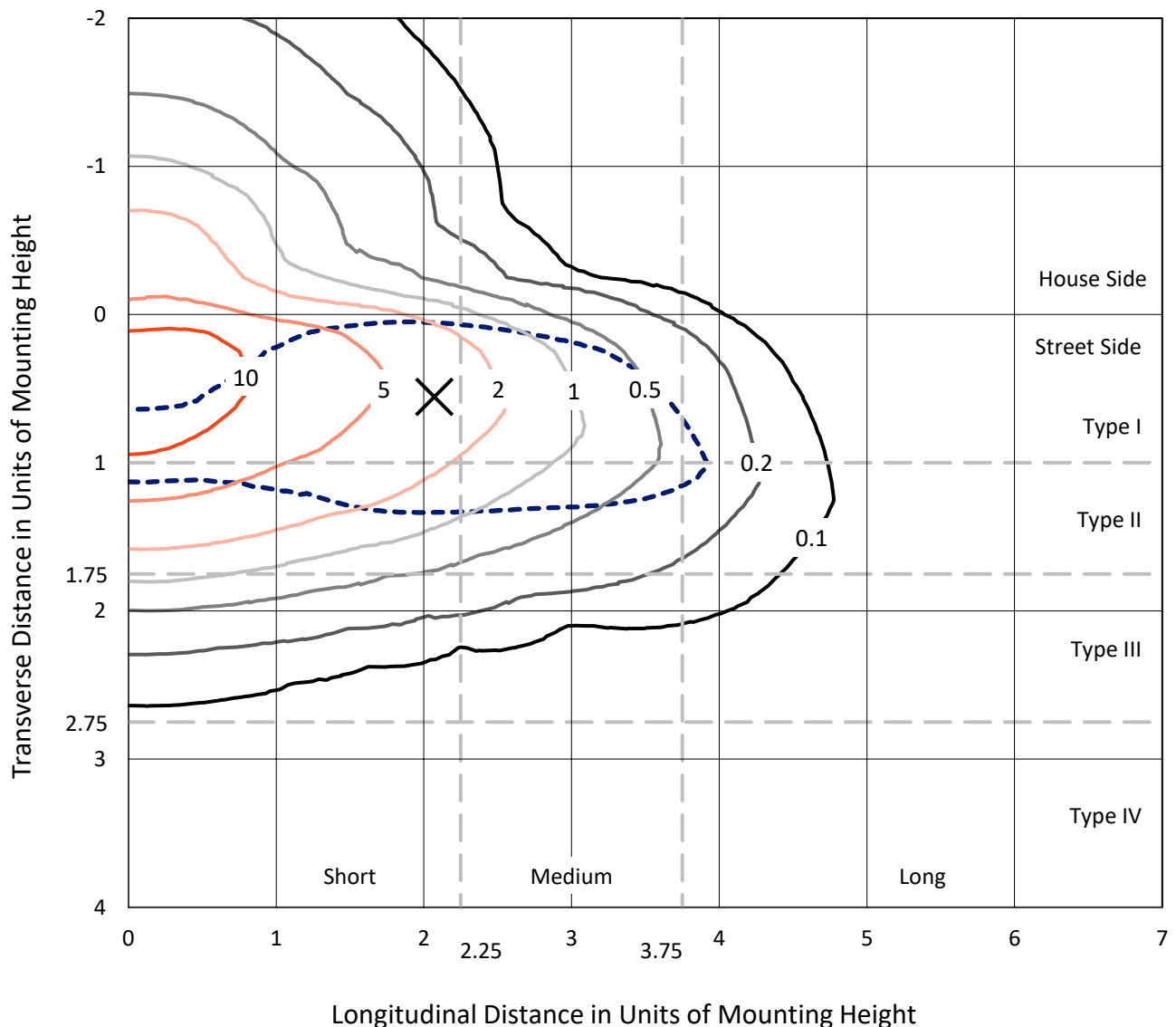
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

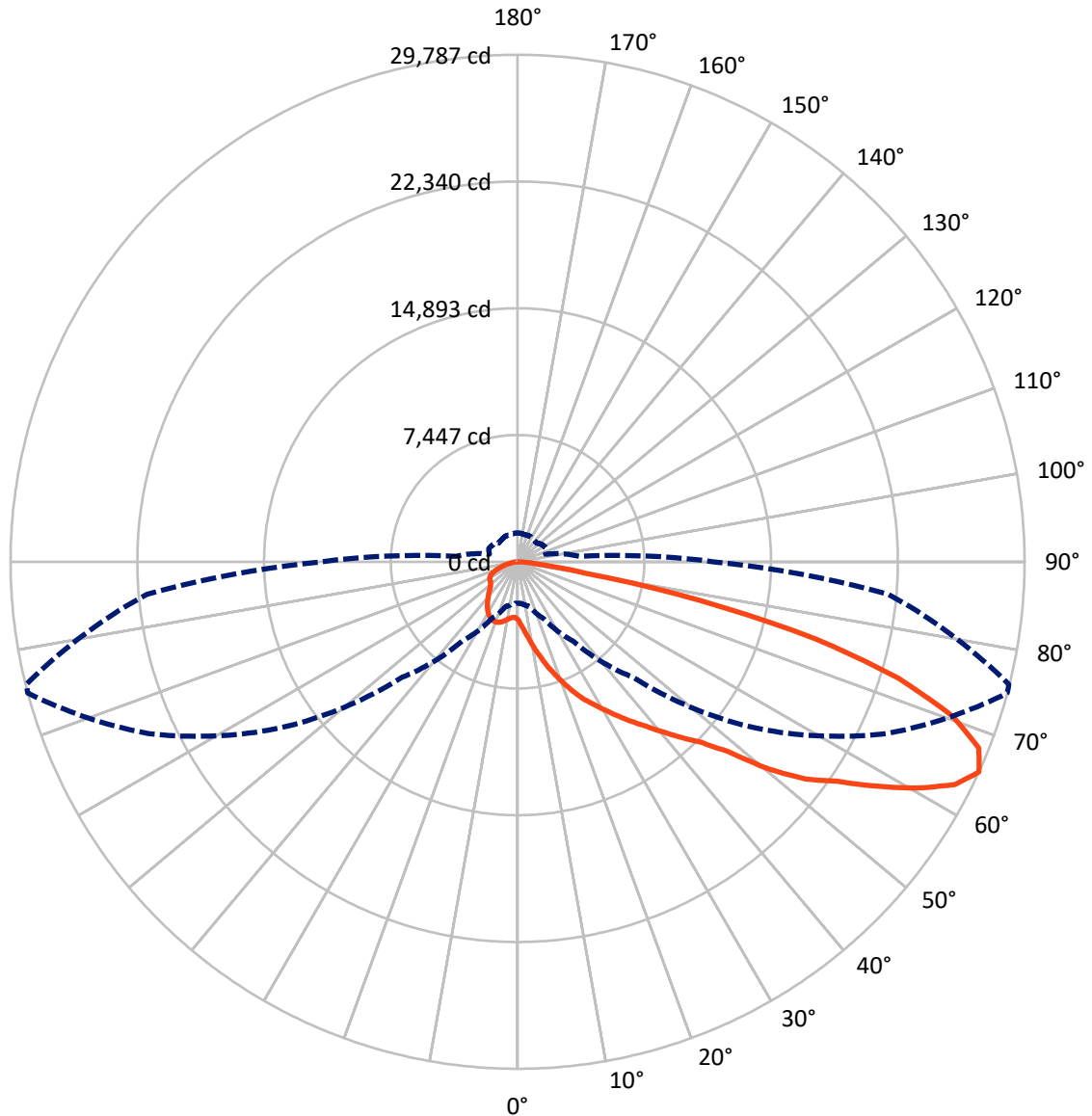
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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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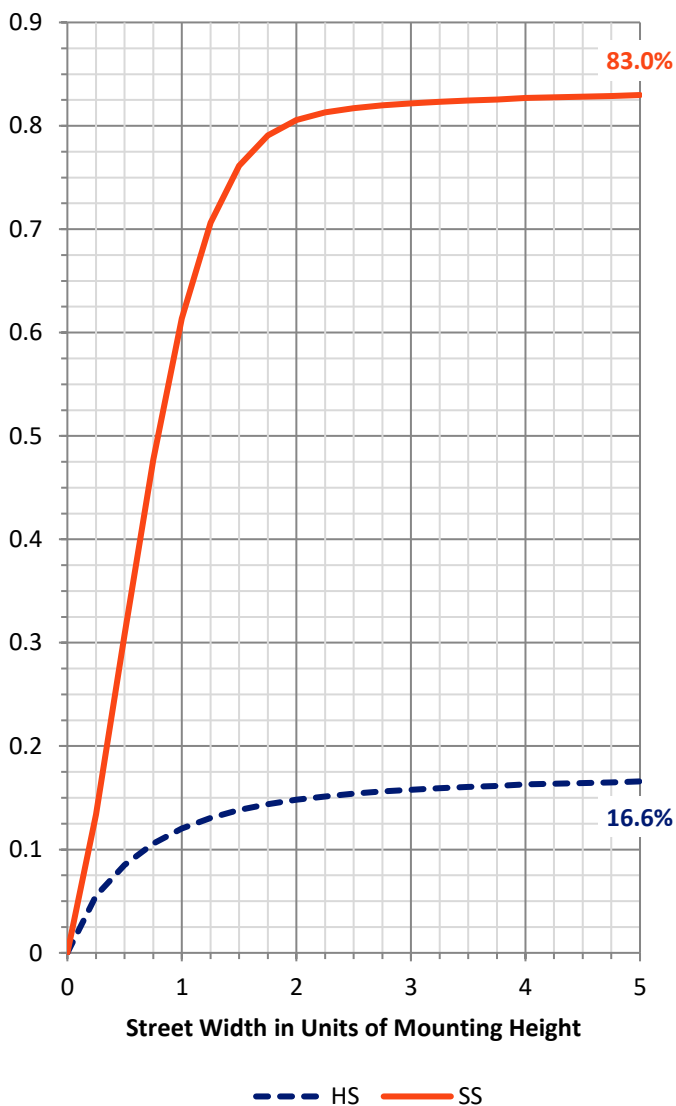
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6153.9	0.0	6153.9
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	30452.1	0.0	30452.1
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	36606.0	0.0	36606.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.2	1.1
10°-20°	1618.6	4.4
20°-30°	3126.5	8.5
30°-40°	5078.4	13.9
40°-50°	6985.8	19.1
50°-60°	8247.9	22.5
60°-70°	7226.5	19.7
70°-80°	3450.0	9.4
80°-90°	459.1	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°	36606.0	100.0
0°-180°	36606.0	100.0

**Coefficient of Utilization**



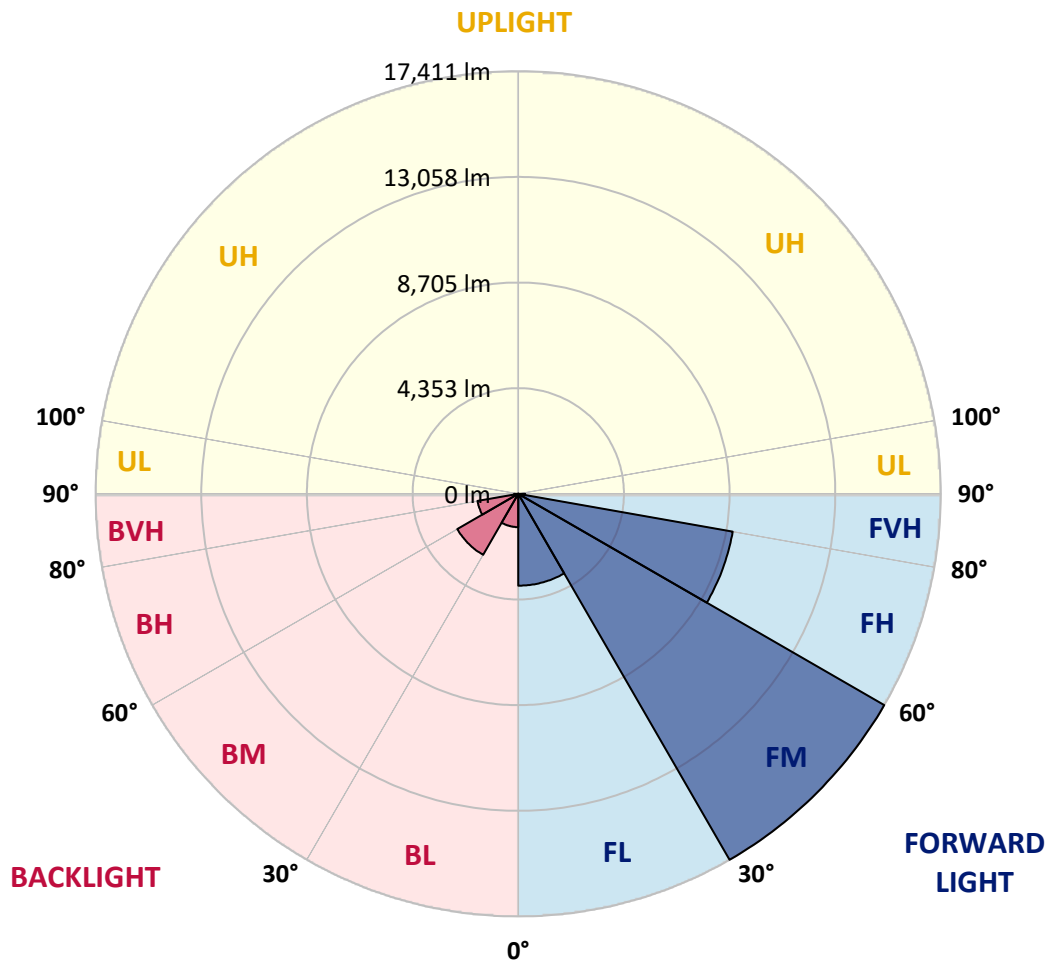
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3784.5	10.3			
FM (30°-60°)	17410.6	47.6			
FH (60°-80°)	8970.1	24.5			G4/12000
FVH (80°-90°)	286.9	0.8			G3/500
BL (0°-30°)	1373.8	3.8	B3/2500		
BM (30°-60°)	2901.5	7.9	B3/5000		
BH (60°-80°)	1706.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	172.2	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3401.2	3401.2	3401.2	3401.2	3401.2	3401.2	3401.2	3401.2	3401.2	3401.2	3401.2
2.5°	4519.0	4489.3	4457.5	4370.1	4276.7	4171.5	4020.6	3875.7	3683.1	3677.1	3534.2
5°	5771.9	5752.0	5611.1	5529.6	5313.2	5025.3	4781.1	4401.9	4050.5	4008.7	3730.8
7.5°	6923.4	6846.0	6792.4	6645.5	6431.0	6061.8	5589.2	5076.9	4489.3	4433.7	3973.0
10°	7791.1	7783.2	7755.4	7628.3	7467.5	7100.2	6575.9	5841.3	5045.2	4936.0	4266.9
12.5°	8440.3	8446.3	8442.4	8440.3	8325.2	8013.5	7445.6	6671.3	5607.1	5529.6	4606.4
15°	8867.2	8926.8	8950.6	9049.9	9059.9	8851.3	8362.9	7473.4	6240.4	6125.3	4971.7
17.5°	9149.2	9179.0	9290.1	9459.0	9595.9	9558.2	9123.4	8216.0	6887.7	6695.1	5350.9
20°	9419.2	9470.9	9556.2	9786.6	10028.7	10139.9	9834.2	8976.5	7529.0	7405.9	5769.8
22.5°	9981.1	10054.6	10084.3	10201.5	10408.0	10604.6	10465.6	9705.1	8231.9	8065.1	6214.6
25°	10932.2	11009.6	10926.2	10898.4	10965.9	11063.2	11033.4	10392.1	8895.0	8656.8	6635.5
27.5°	12171.1	12181.1	12018.3	11863.4	11696.6	11647.0	11555.6	11001.7	9470.9	9272.3	7058.4
30°	13501.4	13453.7	13183.8	12903.8	12621.8	12343.8	12081.8	11589.3	10112.1	9883.8	7473.4
32.5°	14736.4	14710.6	14410.8	13975.9	13499.4	13237.3	12707.2	12183.0	10799.1	10578.7	7900.3
35°	15661.6	15699.4	15369.7	14895.2	14375.0	14142.7	13473.6	12806.5	11509.9	11269.7	8364.9
37.5°	16318.8	16299.0	16007.1	15596.1	15139.5	14936.9	14369.1	13487.5	12274.4	12044.0	8873.2
40°	16553.1	16541.2	16324.8	16025.0	15735.1	15663.6	15306.2	14222.2	13149.9	12880.0	9484.7
42.5°	16404.2	16430.0	16287.0	16205.7	16152.0	16203.6	16237.5	15185.1	14105.0	13856.8	10147.9
45°	15947.5	15933.7	15913.8	16046.8	16348.6	16688.2	17158.7	16094.5	15143.4	14944.9	11037.4
47.5°	15131.5	15230.8	15280.4	15647.7	16306.9	17111.1	18218.9	17313.5	16650.4	16477.7	12393.5
50°	13989.9	14069.3	14363.1	15016.4	15999.2	17269.8	19255.4	19307.0	19164.1	18840.4	13866.8
52.5°	12206.9	12330.0	12935.6	14132.8	15367.8	17204.4	19882.8	21016.5	21205.1	20962.9	15318.1
55°	10211.4	10384.1	11023.5	12594.0	14498.1	16846.9	20315.6	22007.3	22759.8	22535.4	16716.0
57.5°	8257.7	8440.3	9097.6	10618.4	12981.2	16056.7	20599.6	23111.3	24876.3	24584.5	18455.2
60°	6188.8	6379.4	6943.3	8509.9	10821.0	14512.0	20407.0	24068.2	26990.9	26865.8	20196.5
62.5°	3992.8	4203.3	4693.7	5990.3	8317.3	12401.5	19376.5	24596.4	28821.5	28670.6	21467.2
65°	2432.2	2456.0	2726.1	3718.9	5692.4	9601.9	17019.7	23895.5	29786.5	29740.8	21854.4
67.5°	1572.5	1610.2	1733.3	2227.7	3413.1	6669.3	13608.6	21582.4	29222.6	29206.7	21054.2
70°	1328.3	1340.2	1395.8	1503.0	1983.5	4044.4	9556.2	17895.3	27080.2	27080.2	19130.3
72.5°	1187.3	1203.2	1223.0	1256.8	1415.7	2291.3	5702.4	13930.3	23381.2	23536.1	16283.1
75°	1078.1	1074.1	1086.1	1092.1	1207.2	1497.1	2948.5	10302.8	18087.9	17778.2	11791.9
77.5°	923.2	929.2	923.2	949.1	1066.2	1139.7	1497.1	6913.5	10961.9	10560.9	5918.8
80°	758.5	768.4	778.3	794.2	911.3	865.7	899.4	3151.0	4054.4	3969.0	1828.6
82.5°	569.9	583.7	599.6	637.4	716.8	571.8	567.8	1346.1	1463.3	1340.2	673.1
85°	230.3	272.0	411.0	448.7	450.7	313.7	349.5	561.9	597.7	583.7	264.1
87.5°	53.6	63.5	133.0	200.5	184.6	117.1	129.0	182.7	208.5	192.6	89.3
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°	3401.2	3401.2	3401.2	3401.2	3401.2	3401.2	3401.2	3401.2	3401.2	3401.2	3401.2
2.5°	3468.7	3399.2	3280.1	3188.7	3123.2	3065.6	3029.9	3008.1	3000.1	2998.1	3000.1
5°	3585.8	3462.7	3274.1	3154.9	3089.4	3051.7	3029.9	3027.9	3029.9	3031.9	3025.9
7.5°	3746.7	3569.9	3323.8	3212.6	3162.9	3135.1	3125.2	3121.2	3123.2	3121.2	3121.2
10°	3961.0	3718.9	3421.0	3305.8	3264.2	3232.4	3216.5	3206.6	3198.6	3190.7	3186.7
12.5°	4197.3	3883.6	3526.2	3415.1	3355.5	3305.8	3270.1	3244.3	3226.4	3208.6	3204.6
15°	4461.5	4058.4	3643.4	3488.5	3403.2	3329.7	3268.2	3226.4	3194.6	3168.9	3166.8
17.5°	4713.6	4223.2	3722.9	3522.2	3397.2	3293.9	3212.6	3154.9	3115.2	3081.5	3077.5
20°	4983.6	4380.0	3758.6	3500.4	3337.6	3212.6	3105.3	3035.8	2990.2	2952.5	2946.5
22.5°	5255.7	4513.1	3754.6	3430.9	3234.4	3087.4	2974.3	2900.8	2847.2	2809.5	2795.6
25°	5515.7	4620.2	3704.9	3319.8	3091.4	2938.5	2823.4	2755.8	2708.2	2662.6	2662.6
27.5°	5750.0	4683.8	3611.6	3184.8	2944.5	2783.6	2692.3	2630.8	2587.1	2557.4	2539.4
30°	5980.3	4713.6	3484.6	3014.0	2789.6	2652.6	2579.2	2543.4	2503.7	2470.0	2466.0
32.5°	6186.8	4707.6	3325.7	2847.2	2642.7	2545.4	2515.6	2487.8	2446.2	2398.5	2386.6
35°	6387.3	4667.9	3137.1	2664.5	2519.6	2481.9	2489.8	2450.1	2374.7	2315.1	2305.2
37.5°	6605.8	4596.4	2930.6	2515.6	2416.3	2452.1	2471.9	2384.5	2261.5	2168.2	2146.4
40°	6857.9	4515.0	2716.1	2366.7	2335.0	2424.3	2424.3	2263.5	2094.7	2037.1	2021.2
42.5°	7153.7	4447.5	2537.5	2241.7	2267.4	2356.8	2346.9	2102.7	2033.1	2003.4	1995.4
45°	7622.3	4423.7	2352.8	2132.4	2211.8	2277.4	2196.0	2047.1	2007.4	1983.5	1975.6
47.5°	8362.9	4451.5	2190.0	2051.0	2148.3	2198.0	2027.2	2009.3	1981.5	1947.8	1943.8
50°	9049.9	4425.7	2074.9	2005.3	2092.7	2102.7	1957.7	1963.7	1947.8	1910.1	1902.1
52.5°	9611.8	4344.2	2001.3	1981.5	2045.0	1935.9	1892.2	1914.0	1908.1	1860.4	1852.5
55°	10229.3	4294.7	1965.6	1981.5	2013.3	1791.0	1830.7	1862.4	1854.5	1820.7	1818.8
57.5°	10977.8	4304.5	1939.8	1987.5	1981.5	1717.4	1769.1	1806.8	1804.8	1794.9	1794.9
60°	11744.2	4308.5	1900.1	1985.5	1943.8	1659.9	1705.5	1759.2	1763.2	1769.1	1769.1
62.5°	11998.4	4135.8	1822.7	1949.7	1860.4	1604.3	1645.9	1719.5	1715.5	1731.4	1733.3
65°	11523.9	3657.3	1707.6	1868.4	1753.2	1564.6	1600.3	1667.8	1645.9	1687.7	1695.6
67.5°	10489.4	3025.9	1528.8	1721.4	1634.0	1522.9	1570.5	1596.4	1556.6	1638.0	1640.0
70°	9065.8	2362.8	1302.5	1512.9	1499.1	1479.2	1546.7	1507.0	1451.4	1550.7	1530.8
72.5°	7580.6	1804.8	1040.4	1237.0	1318.3	1413.7	1505.0	1391.9	1314.4	1344.2	1308.5
75°	5694.4	1334.2	835.9	969.0	1098.0	1320.4	1467.3	1252.9	1133.7	1105.9	1098.0
77.5°	2902.8	871.6	625.5	724.7	824.0	1193.3	1415.7	1090.0	939.1	895.4	875.6
80°	1036.5	542.1	440.8	500.3	555.9	1026.5	1237.0	901.4	728.7	720.8	728.7
82.5°	480.5	349.5	295.8	327.6	329.6	685.0	943.1	673.1	554.0	841.9	710.8
85°	206.5	174.7	166.8	162.8	150.9	305.8	530.1	361.4	563.9	252.1	232.3
87.5°	61.5	69.5	61.5	45.6	33.7	33.7	53.6	19.9	13.9	9.9	9.9
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)