

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: P647292

Luminaire Tested: **GALN-SA2D-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647292  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-835-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10703.6 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

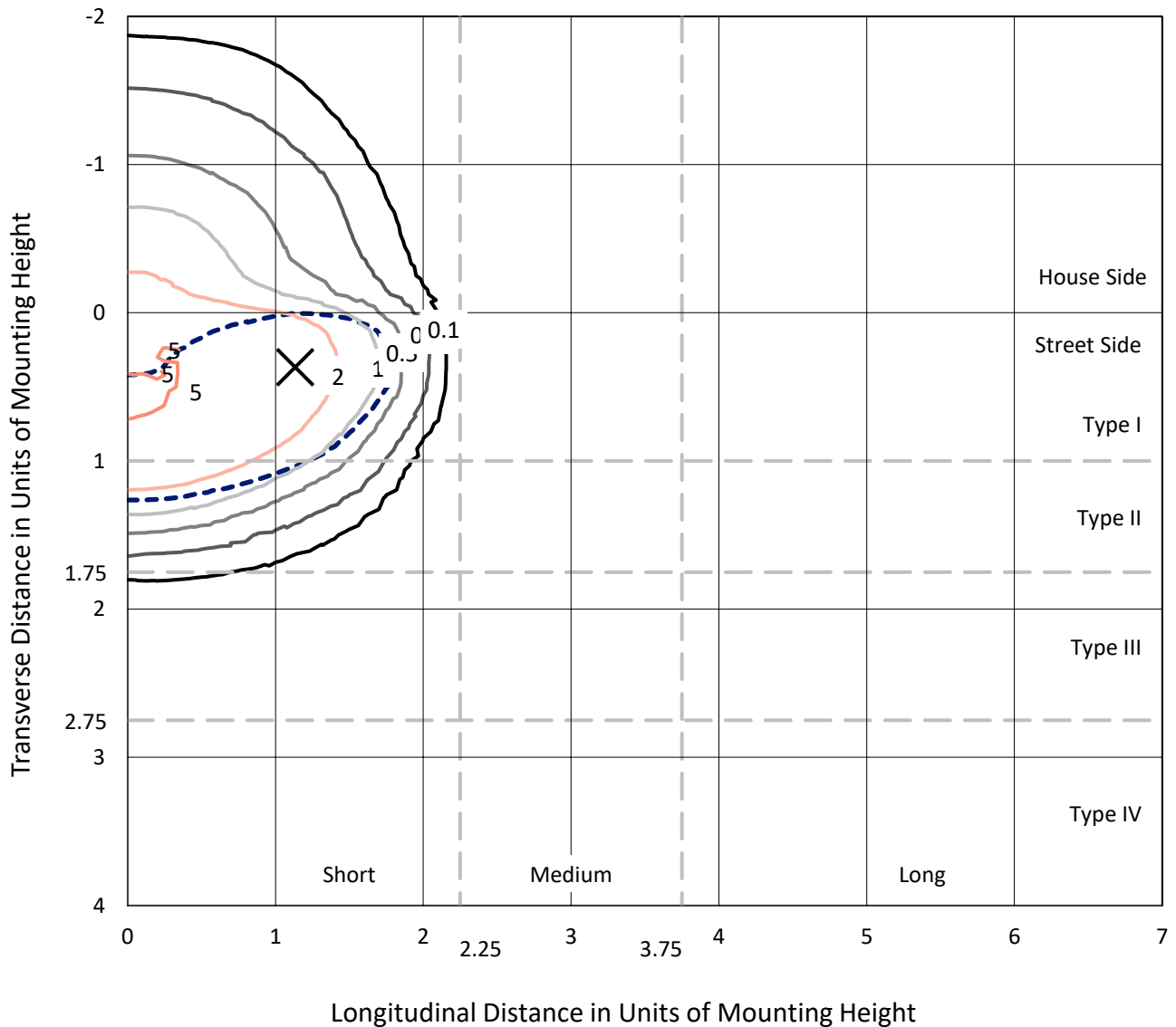
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

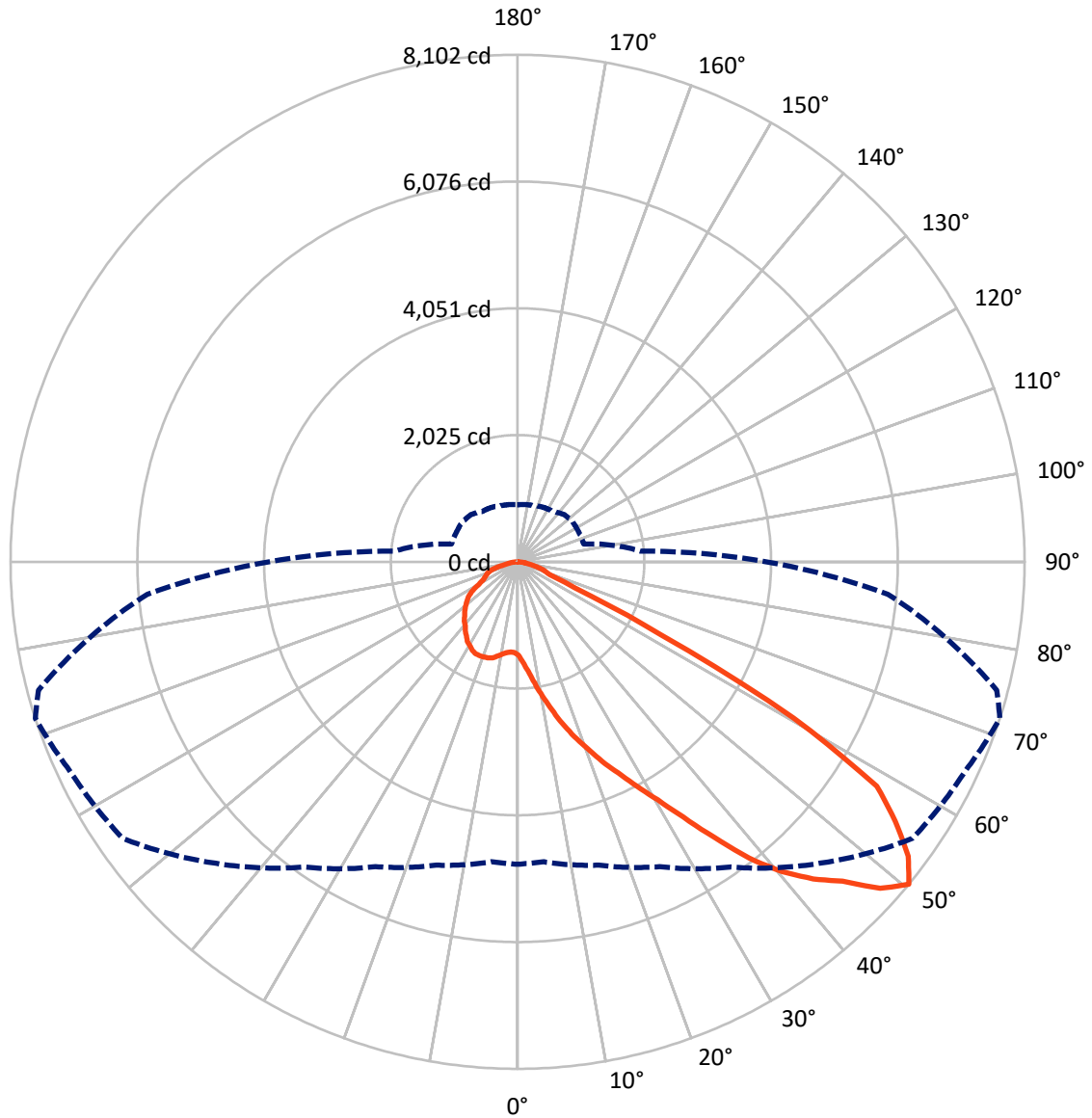
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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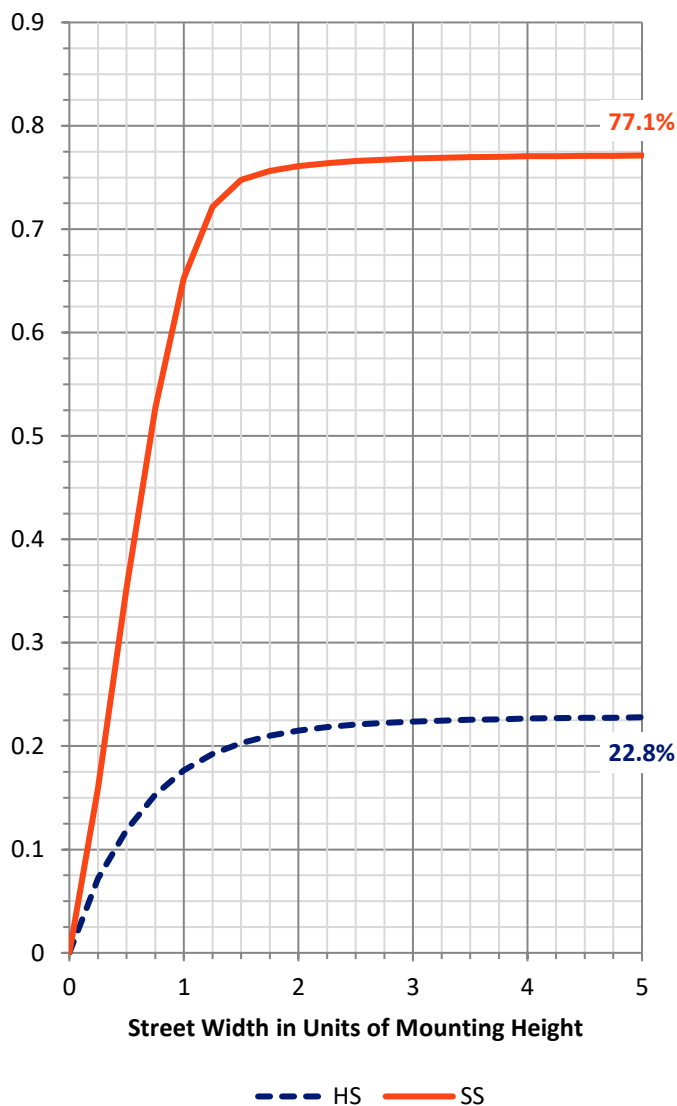
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2452.3	0.0	2452.3
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	8251.3	0.0	8251.3
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	10703.6	0.0	10703.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.3	1.6
10°-20°	655.2	6.1
20°-30°	1270.4	11.9
30°-40°	2104.6	19.7
40°-50°	2944.8	27.5
50°-60°	2484.3	23.2
60°-70°	757.2	7.1
70°-80°	265.6	2.5
80°-90°	46.2	0.4
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°	10703.6	100.0
0°-180°	10703.6	100.0

**Coefficient of Utilization**

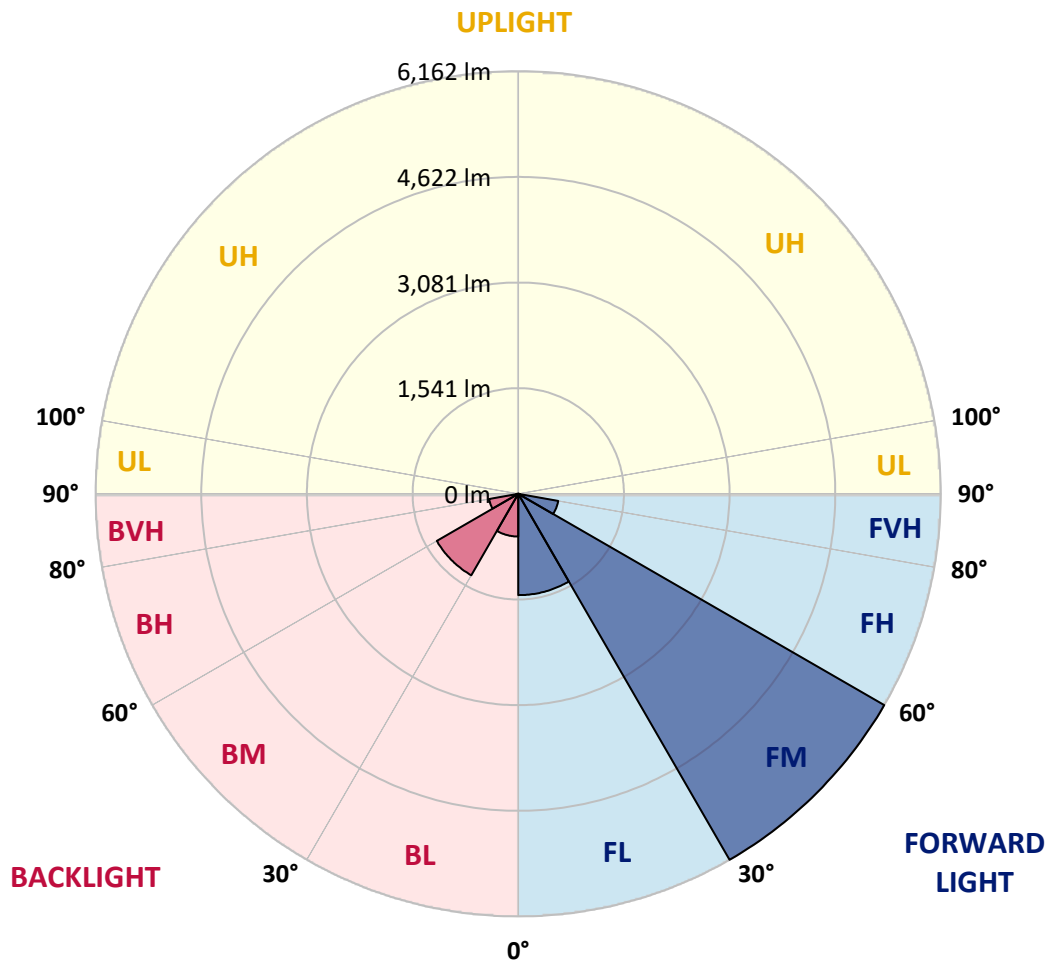


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1477.5	13.8			
FM (30°-60°)	6162.4	57.6			
FH (60°-80°)	590.8	5.5			G0/660
FVH (80°-90°)	20.7	0.2			G1/100
BL (0°-30°)	623.4	5.8	B2/1000		
BM (30°-60°)	1371.3	12.8	B2/2500		
BH (60°-80°)	432.0	4.0	B1/500		G1/500
BVH (80°-90°)	25.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0
2.5°	1916.5	1904.6	1868.9	1856.9	1814.5	1737.7	1711.2	1633.1	1600.0	1569.5	1533.7
5°	2423.8	2368.2	2364.2	2296.6	2198.7	2141.7	1972.1	1858.2	1753.6	1700.6	1602.6
7.5°	2747.0	2748.3	2748.3	2692.7	2614.5	2470.1	2317.8	2112.5	1954.9	1876.8	1709.9
10°	3054.2	3027.8	3013.1	3007.9	2954.9	2814.5	2651.6	2397.3	2181.4	2090.0	1790.7
12.5°	3271.5	3248.9	3282.0	3264.8	3226.4	3135.1	2981.4	2691.3	2421.1	2297.9	1920.5
15°	3374.7	3390.6	3417.2	3464.9	3447.6	3413.2	3243.7	2993.3	2679.4	2540.4	2035.7
17.5°	3533.7	3490.0	3521.8	3581.4	3629.0	3613.2	3516.5	3211.9	2935.0	2764.1	2190.7
20°	3644.9	3619.8	3635.7	3704.5	3740.3	3830.4	3780.1	3498.0	3180.1	2999.9	2373.4
22.5°	3962.8	3925.7	3874.0	3884.7	3897.9	3961.5	3973.4	3811.8	3464.9	3274.1	2546.9
25°	4354.9	4320.4	4259.5	4197.3	4158.8	4146.9	4188.0	4058.2	3737.7	3540.3	2733.7
27.5°	4786.6	4728.4	4689.9	4561.5	4458.2	4442.3	4422.4	4352.2	4060.9	3847.6	2944.3
30°	5206.5	5160.1	5108.5	4903.2	4796.0	4778.7	4680.7	4700.6	4411.8	4174.7	3182.7
32.5°	5524.4	5528.4	5410.5	5255.5	5154.9	5063.5	5027.7	5084.6	4862.1	4671.5	3449.0
35°	5781.4	5793.3	5680.7	5540.3	5431.7	5495.3	5479.4	5505.8	5399.9	5166.8	3758.9
37.5°	6031.7	5972.0	5851.5	5783.9	5727.0	5831.6	5966.8	5989.2	6009.1	5735.0	4119.1
40°	6072.7	6078.0	6007.8	6055.5	5984.0	6141.6	6455.5	6426.3	6507.1	6267.4	4509.8
42.5°	6014.5	6026.4	6054.2	6121.7	6293.9	6483.3	6949.5	6830.3	6928.3	6715.1	4890.0
45°	5919.1	5870.1	5904.5	6161.4	6459.4	6880.6	7401.2	7308.4	7276.7	7097.9	5343.0
47.5°	5463.5	5513.8	5621.1	5937.6	6385.3	6949.5	7721.7	7700.5	7795.9	7670.0	5754.8
50°	4831.7	4811.8	5018.4	5374.7	5952.2	6814.4	7704.5	7896.6	8101.8	7927.0	5939.0
52.5°	3618.5	3724.4	3901.9	4344.2	5168.1	6078.0	7328.3	7648.8	7815.7	7778.6	5790.6
55°	2287.4	2319.2	2426.4	2952.2	3694.0	4878.0	6282.0	7025.0	7323.0	7462.1	5654.2
57.5°	1111.2	1051.6	1182.7	1605.2	2133.8	3280.7	4844.9	6119.1	6766.8	7018.4	5357.5
60°	580.1	602.6	654.3	805.3	1103.3	1703.3	3019.8	4078.0	5067.4	5454.2	4060.9
62.5°	480.8	488.7	523.2	598.7	733.7	980.1	1541.7	1988.0	2584.1	2932.4	2309.8
65°	407.9	411.9	449.0	499.3	585.4	690.1	793.3	830.4	1005.3	1031.8	821.2
67.5°	340.4	344.4	384.1	431.7	487.4	515.2	541.7	539.1	558.9	551.0	549.7
70°	262.2	266.2	307.2	357.6	385.4	369.5	451.6	470.2	478.1	484.8	495.3
72.5°	189.4	197.3	229.1	264.9	250.3	287.4	372.2	400.0	410.6	414.6	427.8
75°	137.7	140.4	148.4	137.7	158.9	200.0	262.2	296.7	309.9	313.9	333.8
77.5°	60.9	62.2	63.6	79.5	101.9	124.5	156.3	184.1	202.6	208.0	213.2
80°	31.8	33.1	41.0	54.3	72.8	91.4	113.9	129.8	141.7	143.1	148.4
82.5°	19.9	21.2	29.1	38.4	51.7	67.6	83.5	96.7	105.9	107.3	108.6
85°	9.2	11.9	17.2	23.8	34.5	43.7	45.0	38.4	41.0	42.4	39.7
87.5°	2.7	4.0	5.3	4.0	5.3	5.3	6.7	7.9	7.9	7.9	9.2
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°	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0
2.5°	1513.9	1502.0	1455.6	1438.4	1393.3	1401.3	1377.5	1376.1	1370.8	1369.5	1368.2
5°	1551.0	1513.9	1458.3	1415.9	1390.7	1388.0	1370.8	1370.8	1376.1	1380.1	1370.8
7.5°	1611.9	1569.5	1475.5	1435.7	1413.2	1409.2	1397.3	1388.0	1400.0	1396.0	1385.4
10°	1682.1	1607.9	1508.6	1474.2	1437.0	1427.8	1427.8	1431.8	1411.9	1418.5	1407.9
12.5°	1760.3	1660.9	1551.0	1511.2	1467.5	1462.3	1459.6	1430.5	1441.0	1435.7	1409.2
15°	1859.5	1721.8	1605.2	1537.7	1500.6	1476.8	1442.4	1437.0	1430.5	1417.2	1405.3
17.5°	1966.8	1788.1	1630.4	1545.6	1490.0	1472.8	1446.4	1418.5	1398.7	1401.3	1392.0
20°	2058.3	1849.0	1639.7	1553.6	1482.1	1448.9	1407.9	1390.7	1369.5	1368.2	1366.9
22.5°	2166.9	1931.1	1652.9	1532.4	1458.3	1423.8	1396.0	1365.6	1351.0	1332.4	1341.7
25°	2296.6	1962.9	1655.6	1520.5	1441.0	1380.1	1365.6	1332.4	1327.1	1300.6	1306.0
27.5°	2390.7	1980.1	1634.4	1483.4	1401.3	1354.9	1328.4	1304.6	1295.3	1275.5	1270.2
30°	2516.5	2006.6	1589.3	1437.0	1361.6	1309.9	1294.0	1288.7	1262.2	1241.1	1238.4
32.5°	2659.5	2023.8	1560.2	1389.4	1320.5	1280.8	1288.7	1263.5	1230.4	1211.9	1206.6
35°	2773.5	2030.4	1487.4	1335.1	1292.7	1267.5	1258.3	1253.0	1205.3	1188.0	1174.8
37.5°	2947.0	2015.8	1426.5	1296.6	1262.2	1253.0	1245.0	1209.3	1154.9	1129.8	1111.2
40°	3149.6	2011.8	1348.3	1242.4	1233.1	1243.7	1219.8	1164.2	1088.7	1060.9	1047.7
42.5°	3344.3	2039.7	1299.3	1213.2	1201.3	1205.3	1172.2	1088.7	1051.6	1035.8	1014.5
45°	3670.2	2098.0	1218.5	1168.2	1162.9	1160.2	1120.5	1033.1	1011.9	992.1	988.1
47.5°	3964.2	2059.5	1166.8	1121.8	1127.1	1112.6	1027.8	1000.0	976.2	956.3	949.6
50°	3981.4	1968.1	1094.0	1086.1	1087.4	1062.2	981.4	962.9	932.4	919.2	909.9
52.5°	3891.3	1818.5	1026.4	1029.1	1033.1	992.1	924.5	911.3	886.0	867.6	862.2
55°	3638.4	1585.4	960.3	970.8	981.4	903.3	882.1	849.0	829.1	802.7	804.0
57.5°	3205.2	1276.8	867.6	884.7	907.3	821.2	805.3	764.2	735.1	713.9	711.3
60°	2148.3	908.6	728.4	735.1	785.4	751.0	749.6	708.6	668.8	650.3	639.7
62.5°	1267.5	694.1	629.1	622.5	621.2	641.0	674.2	659.6	607.9	572.1	582.8
65°	663.6	600.0	585.4	562.9	549.7	544.3	569.6	576.1	541.7	503.3	500.7
67.5°	557.6	557.6	545.7	537.8	519.2	496.7	480.8	459.6	454.3	443.7	430.4
70°	507.3	520.5	516.5	498.0	482.1	457.0	415.9	381.5	348.4	336.5	344.4
72.5°	442.4	455.6	455.6	446.3	425.2	386.7	347.0	307.2	279.5	258.2	255.6
75°	340.4	347.0	362.9	352.3	324.5	300.7	259.6	218.5	192.1	172.2	168.2
77.5°	217.2	227.8	227.8	226.5	206.6	184.1	157.6	128.5	108.6	94.0	90.0
80°	144.4	151.0	156.3	151.0	137.7	120.5	100.7	80.8	66.2	54.3	51.7
82.5°	105.9	113.9	117.8	112.6	99.4	86.1	71.5	56.9	42.4	33.1	30.5
85°	41.0	42.4	47.7	56.9	55.6	54.3	43.7	31.8	23.8	17.2	15.9
87.5°	10.6	9.2	10.6	10.6	9.2	7.9	7.9	7.9	7.9	4.0	5.3
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)