

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: P528189

Luminaire Tested: **GALN-SA3B-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-730-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10231 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G1

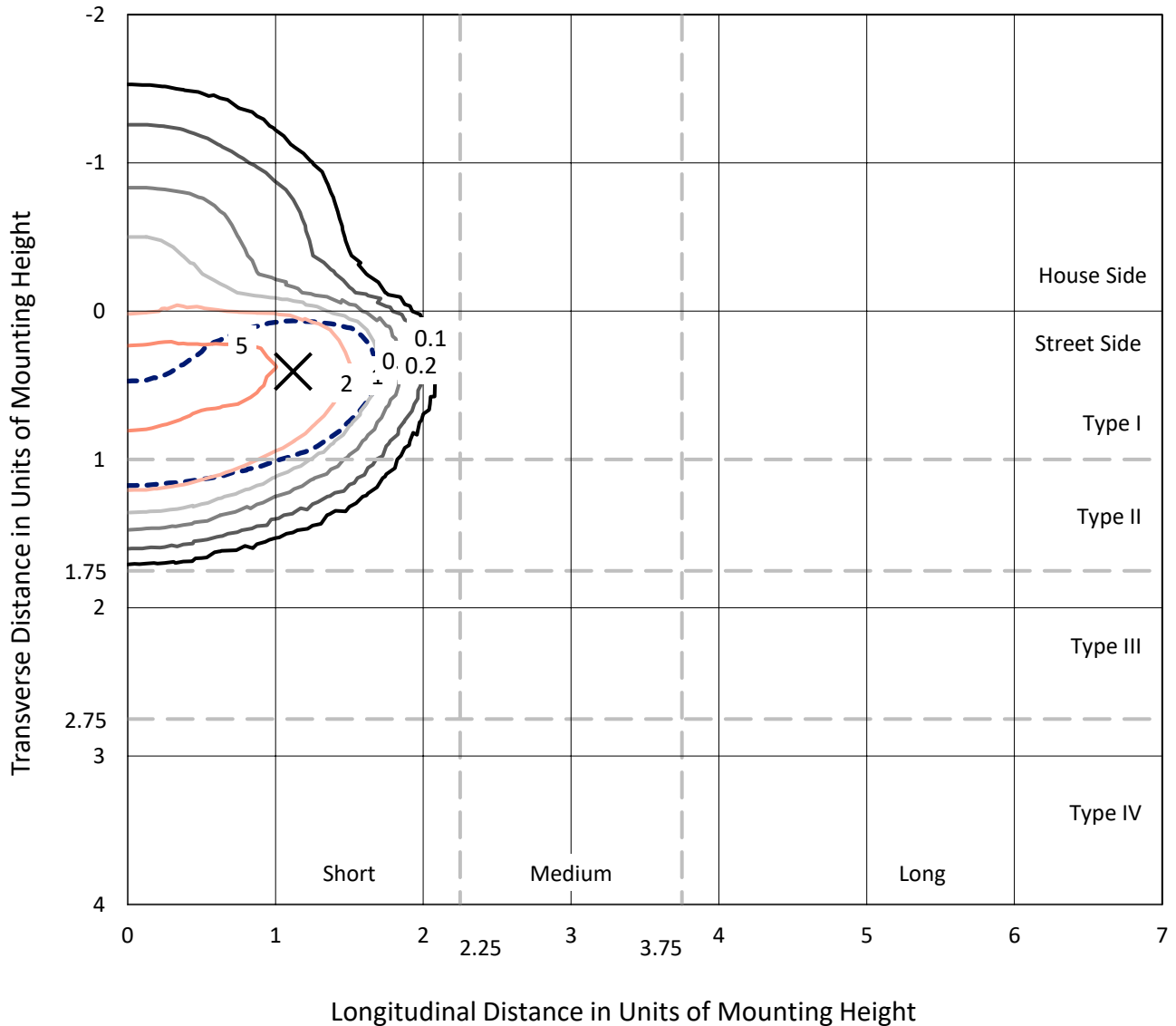
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

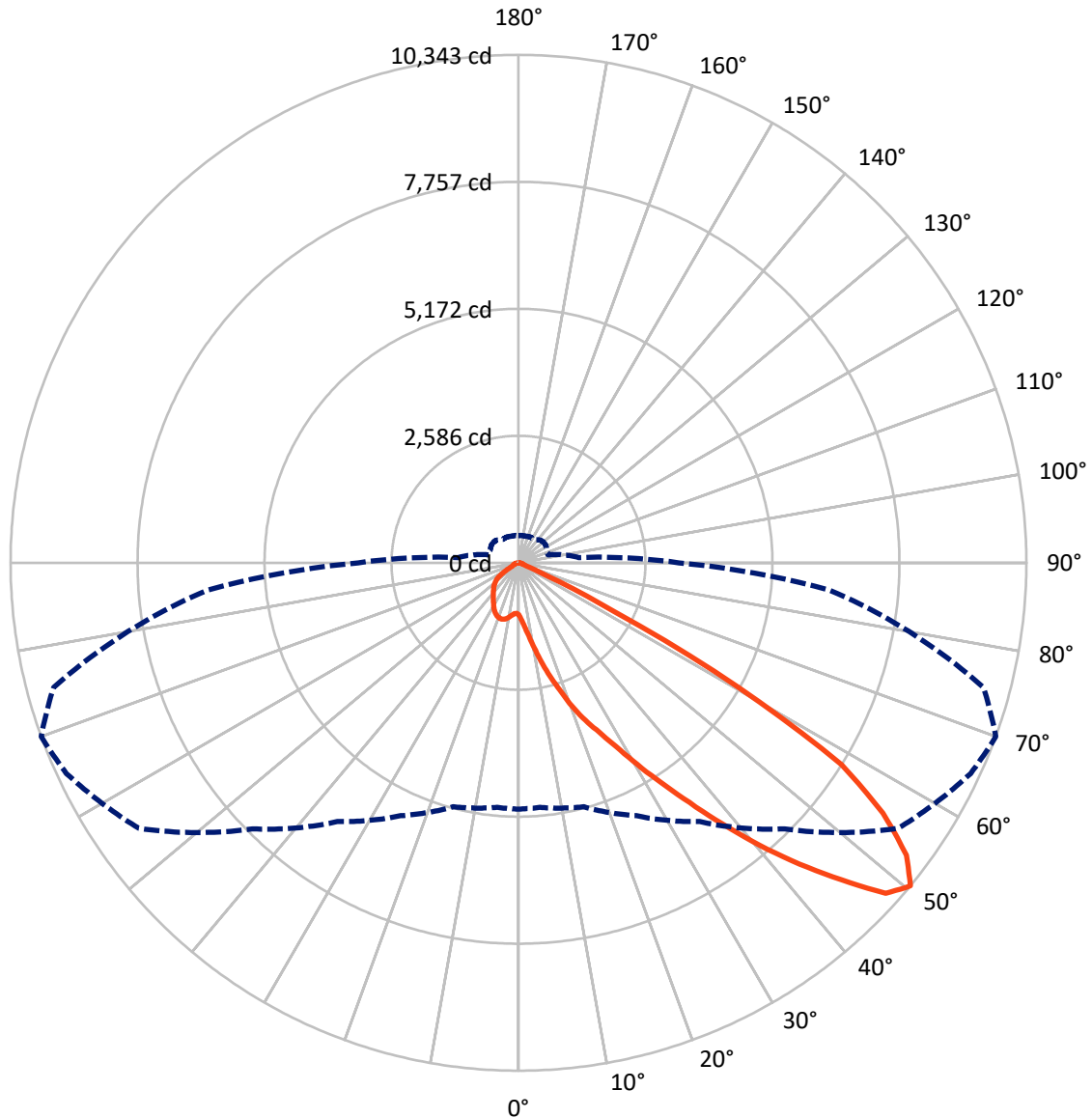
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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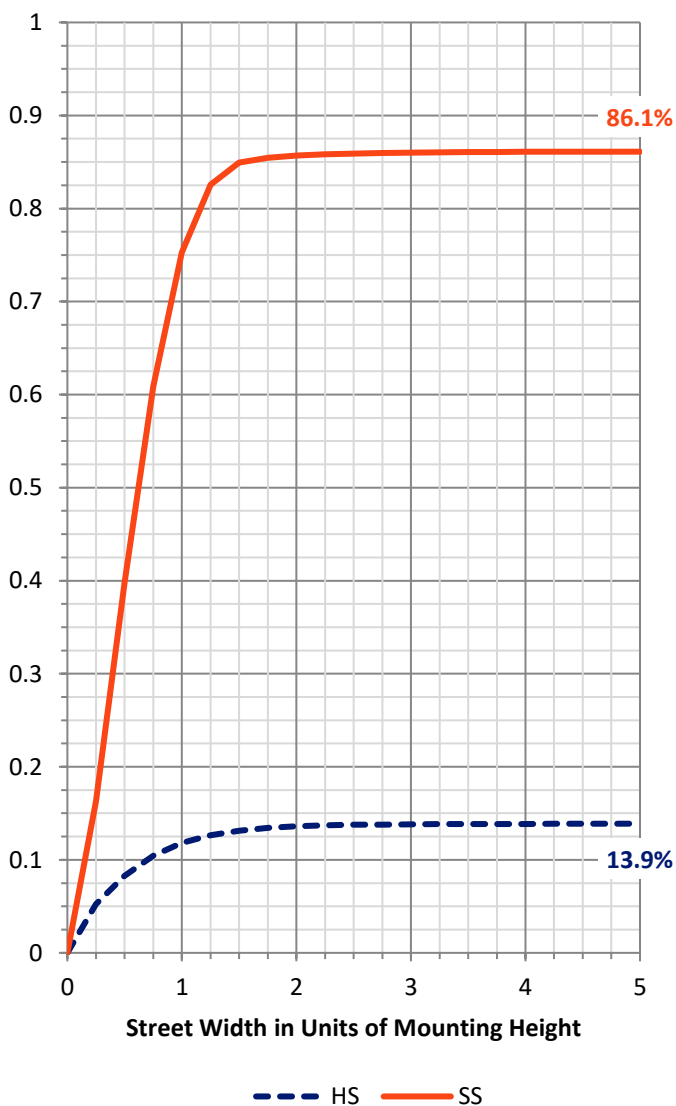
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1428.8	0.0	1428.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	8802.2	0.0	8802.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	10231.0	0.0	10231.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.8	1.3
10°-20°	596.1	5.8
20°-30°	1250.5	12.2
30°-40°	2155.4	21.1
40°-50°	3150.1	30.8
50°-60°	2453.4	24.0
60°-70°	415.7	4.1
70°-80°	57.1	0.6
80°-90°	14.8	0.1
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°	10231.0	100.0
0°-180°	10231.0	100.0

**Coefficient of Utilization**



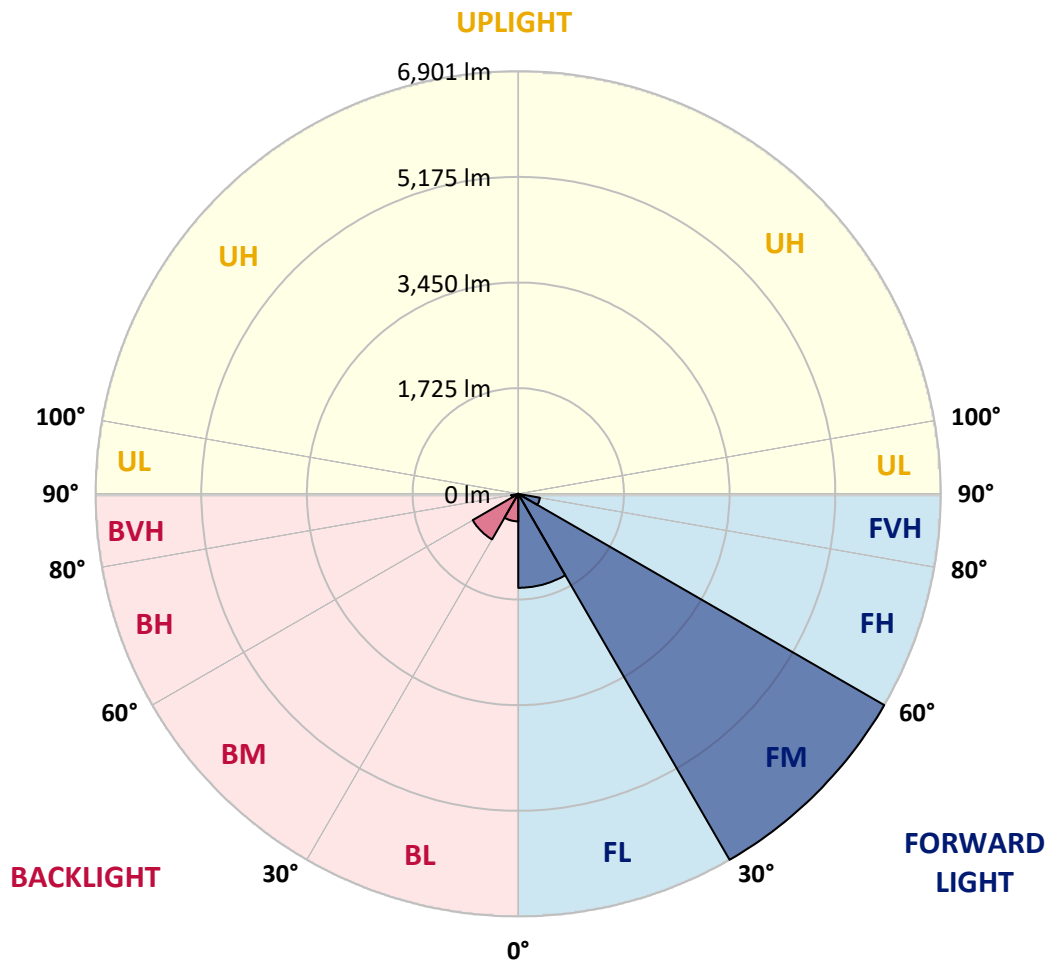
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1534.8	15.0			
FM (30°-60°)	6900.6	67.4			
FH (60°-80°)	359.9	3.5			G0/660
FVH (80°-90°)	6.8	0.1			G0/10
BL (0°-30°)	449.6	4.4	B1/500		
BM (30°-60°)	858.4	8.4	B1/1000		
BH (60°-80°)	112.9	1.1	B1/500		G1/500
BVH (80°-90°)	8.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7
2.5°	1387.7	1377.6	1355.8	1315.4	1298.6	1258.2	1234.7	1189.3	1160.7	1128.7	1093.4
5°	1954.6	1902.5	1870.5	1825.1	1692.2	1609.8	1473.5	1357.5	1303.6	1244.8	1164.0
7.5°	2540.0	2506.3	2462.6	2365.0	2274.2	2102.6	1868.8	1613.1	1503.8	1402.9	1243.1
10°	3024.4	2930.2	2925.2	2852.9	2753.6	2548.4	2267.5	1949.6	1754.4	1606.4	1355.8
12.5°	3362.5	3276.8	3315.4	3307.0	3214.5	3026.1	2701.5	2280.9	2077.4	1847.0	1471.8
15°	3670.4	3635.0	3623.3	3613.2	3576.2	3436.6	3145.5	2684.6	2390.3	2112.7	1603.1
17.5°	3971.5	3880.6	3924.4	3932.8	3929.4	3803.3	3530.8	3068.2	2721.7	2393.6	1741.0
20°	4238.9	4247.3	4188.5	4176.7	4166.6	4161.5	3895.8	3448.3	3128.7	2688.0	1921.0
22.5°	4582.1	4523.2	4575.3	4541.7	4476.1	4435.7	4232.2	3784.8	3482.0	3042.9	2104.3
25°	4987.5	5034.6	4911.8	4898.3	4826.0	4686.4	4503.0	4161.5	3821.8	3372.6	2302.8
27.5°	5487.0	5404.6	5372.7	5298.7	5167.4	5108.6	4893.3	4550.1	4232.2	3719.1	2494.6
30°	5916.0	5894.1	5734.3	5646.8	5532.5	5530.8	5229.7	5076.6	4767.1	4262.5	2758.7
32.5°	6265.9	6170.0	6111.1	6050.6	5958.0	5983.3	5729.3	5648.5	5337.3	4767.1	3069.9
35°	6499.7	6430.7	6395.4	6302.9	6276.0	6388.7	6282.7	6249.0	5993.4	5477.0	3434.9
37.5°	6573.7	6595.6	6588.8	6472.8	6530.0	6834.4	6970.7	6883.2	6748.6	6225.5	3830.2
40°	6639.3	6654.4	6620.8	6757.0	6920.2	7266.7	7759.6	7614.9	7564.5	6984.1	4380.2
42.5°	6676.3	6664.5	6664.5	6900.0	7147.3	7843.7	8521.6	8425.7	8387.0	7791.5	5016.1
45°	6516.5	6402.1	6524.9	6844.5	7342.4	8128.0	9130.5	9263.4	9207.9	8752.0	5759.5
47.5°	5919.3	5990.0	6059.0	6486.2	7105.2	8040.5	9503.9	9956.4	10059.0	9559.4	6247.4
50°	5016.1	5000.9	5143.9	5682.2	6434.1	7663.7	9431.6	10156.6	10343.3	9801.7	6350.0
52.5°	3648.5	3759.5	3914.3	4449.2	5340.7	6688.1	8498.0	9640.2	9889.1	9503.9	6282.7
55°	2124.5	2001.7	2349.9	2802.4	3643.5	5044.7	7184.3	8545.1	9006.0	8962.3	5942.9
57.5°	851.1	824.2	943.7	1271.7	1900.8	3127.0	5224.6	7021.1	7759.6	8208.7	5223.0
60°	373.4	365.0	428.9	518.1	777.1	1441.6	2857.9	4366.8	5137.2	5736.0	3594.7
62.5°	269.1	265.8	297.7	329.7	410.4	627.4	1201.0	1759.5	2193.5	2649.3	1609.8
65°	217.0	225.4	247.3	264.1	302.8	348.2	423.9	489.5	600.5	622.4	354.9
67.5°	176.6	183.4	203.5	222.0	228.8	188.4	195.1	171.6	171.6	153.1	122.8
70°	129.5	131.2	154.8	176.6	141.3	75.7	132.9	132.9	119.4	114.4	104.3
72.5°	95.9	97.6	116.1	109.3	55.5	47.1	97.6	107.7	97.6	92.5	84.1
75°	70.6	72.3	60.6	25.2	23.5	30.3	57.2	74.0	70.6	69.0	63.9
77.5°	13.5	10.1	8.4	11.8	16.8	25.2	37.0	45.4	47.1	50.5	47.1
80°	1.7	1.7	5.0	10.1	18.5	26.9	38.7	43.7	45.4	47.1	43.7
82.5°	0.0	1.7	5.0	10.1	18.5	25.2	33.6	38.7	42.1	43.7	42.1
85°	0.0	1.7	3.4	8.4	15.1	18.5	16.8	11.8	10.1	11.8	8.4
87.5°	0.0	0.0	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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°	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7
2.5°	1073.2	1066.5	1042.9	1017.7	995.8	1005.9	995.8	987.4	990.8	987.4	984.0
5°	1132.1	1101.8	1051.3	1029.5	1010.9	1009.3	1004.2	1002.5	1004.2	1004.2	989.1
7.5°	1187.6	1138.8	1085.0	1061.4	1039.5	1041.2	1029.5	1029.5	1027.8	1019.4	1016.0
10°	1271.7	1206.1	1137.1	1095.1	1068.1	1063.1	1051.3	1039.5	1039.5	1039.5	1022.7
12.5°	1364.2	1281.8	1187.6	1138.8	1106.8	1081.6	1063.1	1059.7	1041.2	1037.9	1029.5
15°	1444.9	1340.6	1221.2	1153.9	1113.6	1079.9	1051.3	1032.8	1024.4	1019.4	1012.6
17.5°	1524.0	1391.1	1239.7	1153.9	1110.2	1071.5	1041.2	1024.4	1004.2	1007.6	994.1
20°	1630.0	1444.9	1244.8	1132.1	1078.2	1041.2	1000.9	992.4	980.7	970.6	973.9
22.5°	1732.6	1483.6	1229.6	1105.1	1027.8	984.0	963.8	953.8	948.7	940.3	928.5
25°	1825.1	1525.7	1206.1	1056.4	973.9	942.0	923.5	921.8	910.0	910.0	888.2
27.5°	1919.3	1540.8	1165.7	999.2	926.8	908.3	899.9	896.6	891.5	879.7	864.6
30°	2026.9	1545.9	1106.8	940.3	884.8	864.6	876.4	884.8	862.9	841.1	847.8
32.5°	2116.1	1534.1	1036.2	884.8	854.5	844.4	868.0	876.4	851.1	827.6	815.8
35°	2223.8	1505.5	967.2	841.1	824.2	844.4	864.6	864.6	814.1	785.5	778.8
37.5°	2386.9	1473.5	903.3	804.0	792.3	834.3	861.2	842.7	763.7	728.4	719.9
40°	2561.9	1453.3	841.1	767.0	775.5	817.5	832.6	775.5	694.7	672.8	666.1
42.5°	2815.9	1413.0	785.5	735.1	760.3	794.0	794.0	691.3	661.1	649.3	647.6
45°	3132.1	1384.4	736.8	708.2	738.4	746.9	719.9	647.6	625.7	622.4	624.1
47.5°	3286.8	1328.9	686.3	676.2	698.1	699.8	629.1	612.3	593.8	588.7	585.4
50°	3263.3	1229.6	620.7	634.2	664.4	647.6	573.6	577.0	560.1	558.5	550.1
52.5°	3098.4	1073.2	555.1	587.1	620.7	571.9	528.2	524.8	524.8	503.0	494.5
55°	2746.9	864.6	476.0	516.4	556.8	481.1	469.3	465.9	457.5	437.3	432.3
57.5°	2175.0	634.2	358.3	402.0	472.7	408.8	407.1	391.9	370.1	354.9	354.9
60°	1293.5	365.0	225.4	245.6	312.9	331.4	368.4	361.7	324.6	301.1	294.4
62.5°	590.4	188.4	143.0	146.3	168.2	215.3	289.3	334.7	282.6	242.2	238.9
65°	198.5	139.6	117.7	112.7	116.1	129.5	173.3	237.2	225.4	186.7	180.0
67.5°	121.1	124.5	111.0	102.6	102.6	100.9	99.2	107.7	132.9	129.5	131.2
70°	104.3	114.4	102.6	92.5	89.2	84.1	70.6	58.9	50.5	58.9	62.2
72.5°	84.1	90.8	87.5	79.1	70.6	63.9	50.5	38.7	28.6	25.2	25.2
75°	62.2	67.3	70.6	60.6	53.8	45.4	37.0	25.2	15.1	10.1	10.1
77.5°	45.4	50.5	52.1	47.1	40.4	32.0	23.5	16.8	8.4	3.4	3.4
80°	38.7	45.4	50.5	47.1	42.1	30.3	21.9	11.8	6.7	1.7	1.7
82.5°	37.0	45.4	50.5	45.4	40.4	28.6	21.9	13.5	5.0	1.7	1.7
85°	8.4	11.8	15.1	18.5	21.9	21.9	16.8	10.1	5.0	1.7	1.7
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	1.7	1.7	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)