

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: P648006

Luminaire Tested: **GALN-SA6A-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648006
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-SA6A-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA 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: 14043.1 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

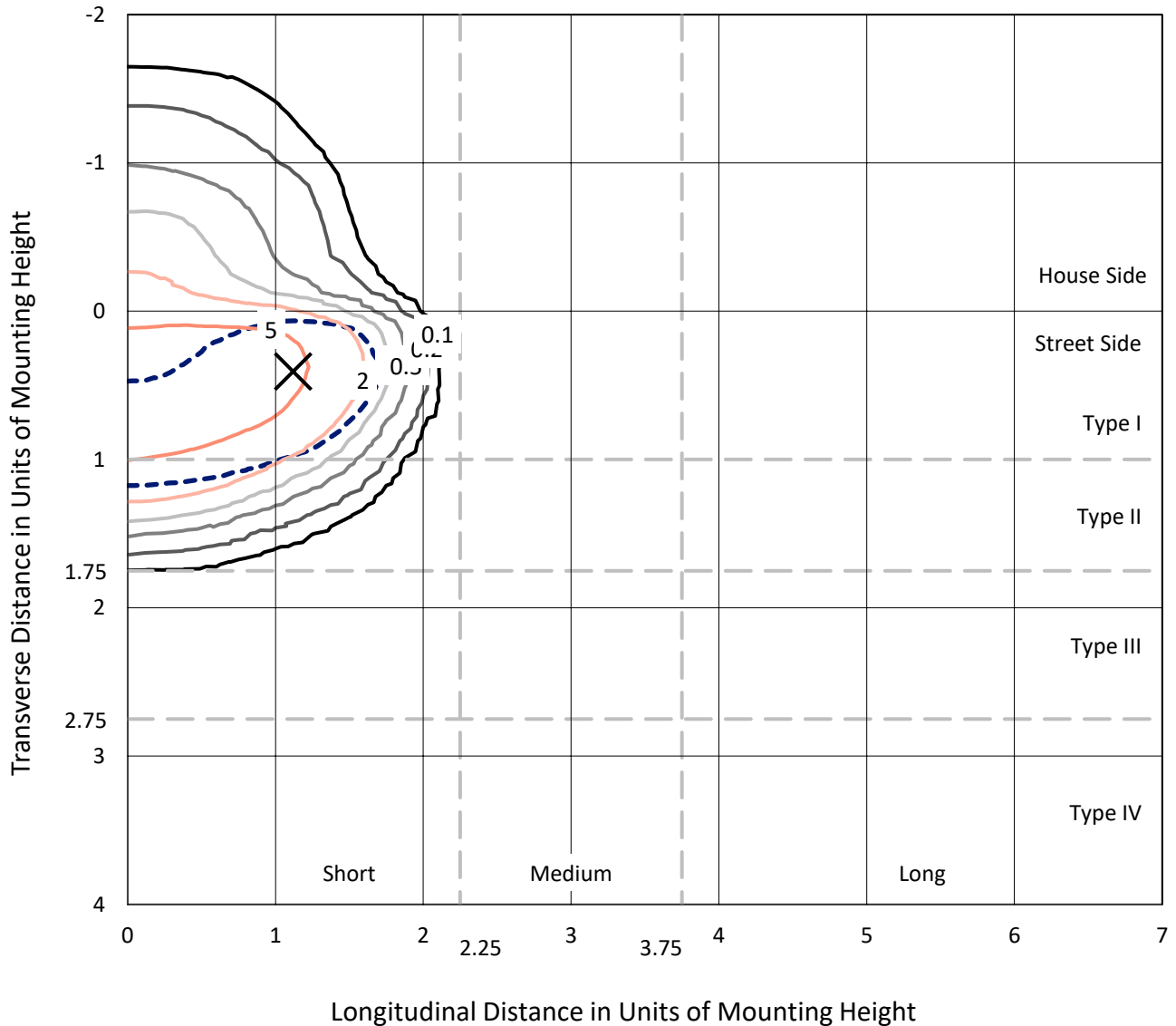
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

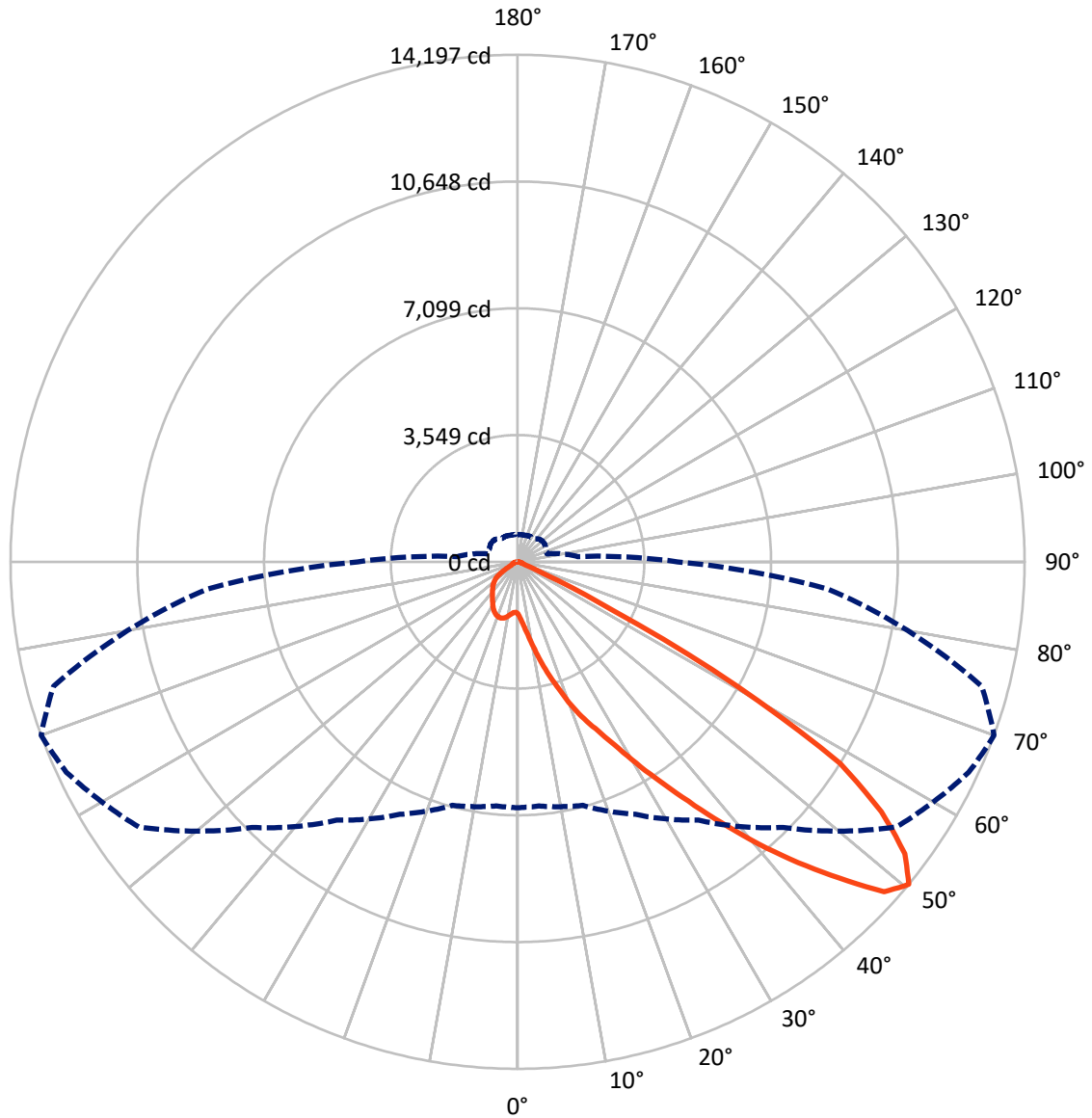
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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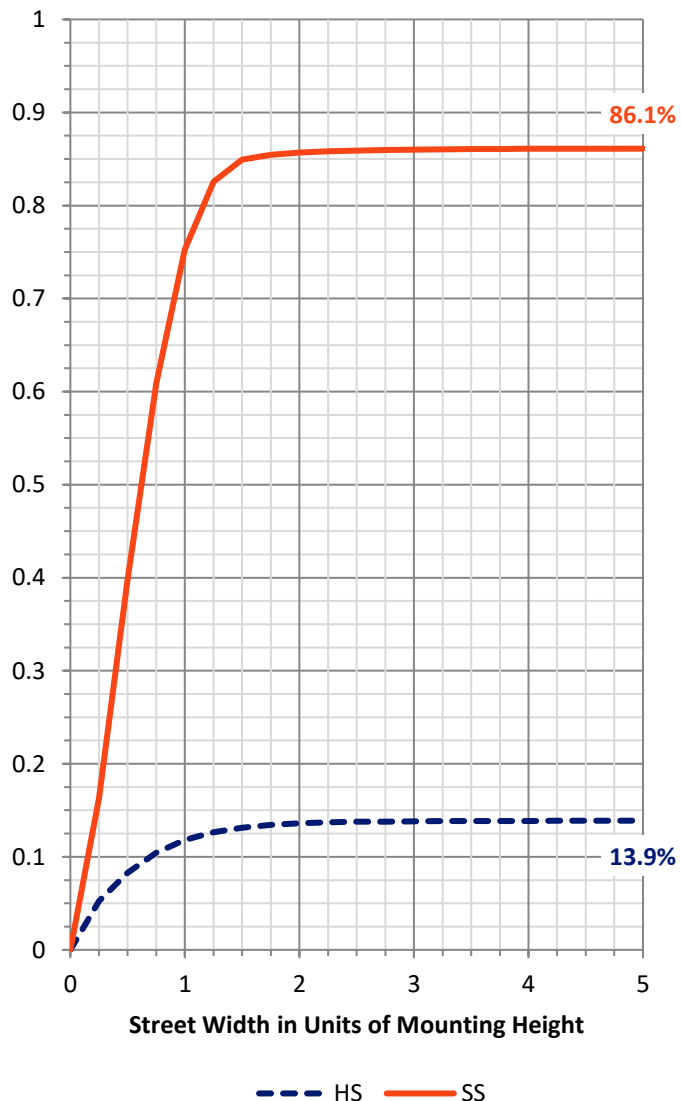
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1961.2	0.0	1961.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12081.9	0.0	12081.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	14043.1	0.0	14043.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	1.3
10°-20°	818.2	5.8
20°-30°	1716.4	12.2
30°-40°	2958.6	21.1
40°-50°	4323.9	30.8
50°-60°	3367.6	24.0
60°-70°	570.6	4.1
70°-80°	78.4	0.6
80°-90°	20.3	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°	14043.1	100.0
0°-180°	14043.1	100.0

Coefficient of Utilization



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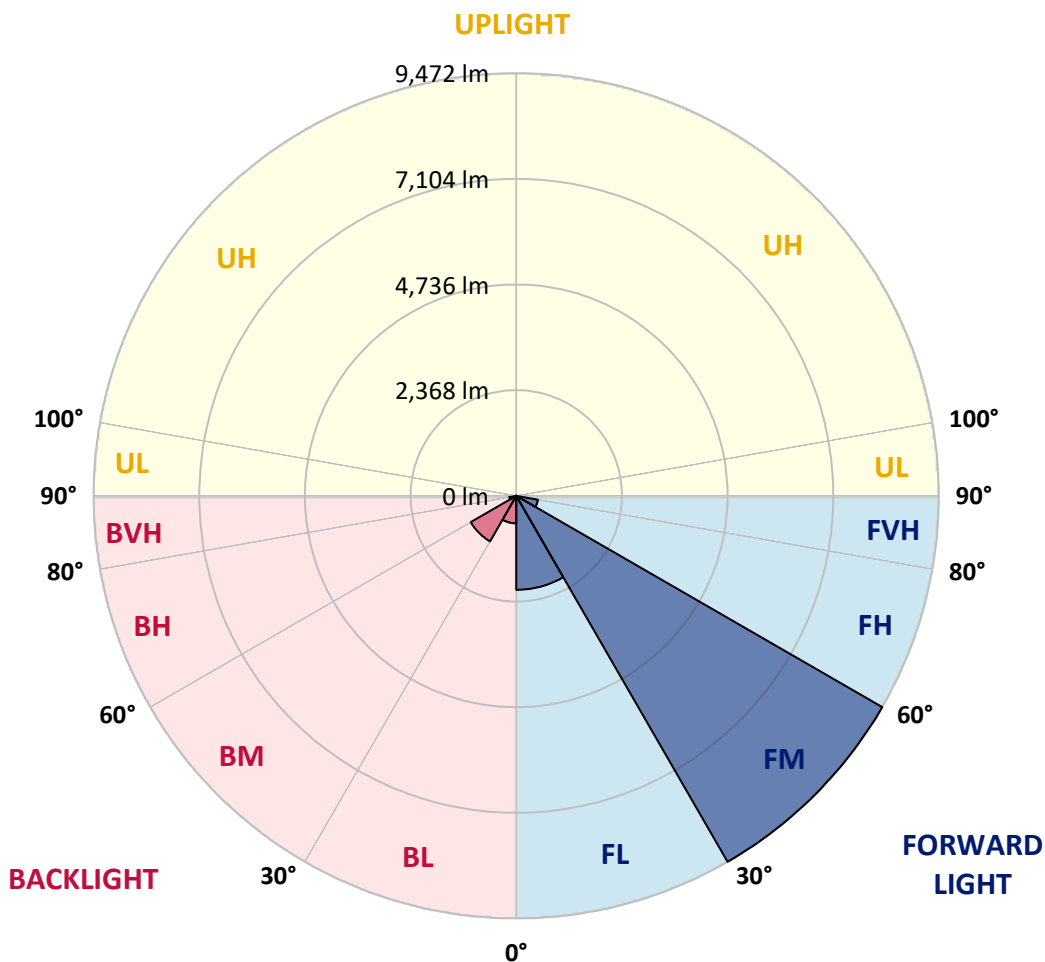
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2106.6	15.0			
FM (30°-60°)	9471.8	67.4			
FH (60°-80°)	494.0	3.5			G0/660
FVH (80°-90°)	9.4	0.1			G0/10
BL (0°-30°)	617.1	4.4	B2/1000		
BM (30°-60°)	1178.2	8.4	B2/2500		
BH (60°-80°)	154.9	1.1	B1/500		G1/500
BVH (80°-90°)	10.9	0.1			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6
2.5°	1904.8	1890.9	1861.0	1805.5	1782.4	1727.1	1694.7	1632.4	1593.1	1549.2	1500.8
5°	2682.9	2611.3	2567.5	2505.1	2322.7	2209.6	2022.6	1863.2	1789.4	1708.6	1597.7
7.5°	3486.4	3440.2	3380.2	3246.2	3121.6	2886.1	2565.2	2214.2	2064.1	1925.6	1706.2
10°	4151.4	4022.0	4015.1	3915.9	3779.6	3498.0	3112.3	2676.0	2408.1	2205.0	1861.0
12.5°	4615.5	4497.7	4550.8	4539.2	4412.3	4153.7	3708.1	3130.8	2851.5	2535.1	2020.3
15°	5038.0	4989.4	4973.3	4959.4	4908.6	4717.0	4317.6	3685.0	3280.9	2899.9	2200.4
17.5°	5451.2	5326.6	5386.6	5398.2	5393.5	5220.3	4846.3	4211.4	3735.8	3285.5	2389.7
20°	5818.4	5829.9	5749.1	5732.9	5719.1	5712.1	5347.3	4733.2	4294.5	3689.6	2636.8
22.5°	6289.4	6208.6	6280.1	6233.9	6143.9	6088.5	5809.2	5195.0	4779.4	4176.8	2888.4
25°	6845.8	6910.4	6741.9	6723.5	6624.2	6432.5	6180.8	5712.1	5245.8	4629.3	3160.8
27.5°	7531.5	7418.4	7374.5	7273.0	7092.9	7012.1	6716.5	6245.5	5809.2	5104.9	3424.1
30°	8120.3	8090.3	7871.0	7750.9	7593.8	7591.6	7178.3	6968.2	6543.4	5850.7	3786.6
32.5°	8600.6	8468.9	8388.1	8305.0	8178.0	8212.7	7864.0	7753.2	7326.1	6543.4	4213.7
35°	8921.5	8826.8	8778.3	8651.4	8614.4	8769.1	8623.6	8577.5	8226.5	7517.7	4714.7
37.5°	9023.1	9053.1	9043.9	8884.5	8963.0	9381.0	9567.9	9447.9	9263.2	8545.1	5257.3
40°	9113.1	9133.9	9087.7	9274.7	9498.7	9974.3	10650.8	10452.3	10383.0	9586.4	6012.3
42.5°	9163.9	9147.7	9147.7	9471.0	9810.4	10766.2	11696.8	11565.1	11512.1	10694.7	6885.1
45°	8944.6	8787.5	8956.1	9394.8	10078.2	11156.5	12532.5	12715.0	12638.8	12013.0	7905.6
47.5°	8125.0	8221.9	8316.6	8903.0	9752.7	11036.4	13045.1	13666.2	13807.0	13121.3	8575.2
50°	6885.1	6864.2	7060.5	7799.4	8831.5	10519.2	12945.8	13941.0	14197.3	13453.8	8716.0
52.5°	5007.9	5160.4	5372.7	6106.9	7330.7	9180.0	11664.4	13232.2	13573.9	13045.1	8623.6
55°	2916.1	2747.5	3225.5	3846.6	5001.0	6924.3	9861.2	11729.1	12361.7	12301.6	8157.2
57.5°	1168.3	1131.4	1295.2	1745.5	2609.0	4292.2	7171.3	9637.2	10650.8	11267.3	7169.1
60°	512.6	501.0	588.7	711.1	1066.7	1978.7	3922.8	5993.9	7051.3	7873.2	4934.1
62.5°	369.4	364.8	408.6	452.6	563.4	861.2	1648.5	2415.1	3010.8	3636.5	2209.6
65°	297.9	309.4	339.4	362.5	415.6	477.9	581.8	671.9	824.3	854.3	487.2
67.5°	242.4	251.7	279.4	304.7	314.0	258.6	267.9	235.5	235.5	210.1	168.6
70°	177.8	180.1	212.4	242.4	193.9	103.9	182.4	182.4	164.0	157.0	143.1
72.5°	131.6	133.9	159.3	150.1	76.2	64.7	133.9	147.8	133.9	127.0	115.4
75°	96.9	99.3	83.2	34.6	32.3	41.6	78.5	101.6	96.9	94.7	87.8
77.5°	18.5	13.9	11.5	16.1	23.1	34.6	50.8	62.3	64.7	69.3	64.7
80°	2.3	2.3	6.9	13.9	25.4	37.0	53.1	60.1	62.3	64.7	60.1
82.5°	0.0	2.3	6.9	13.9	25.4	34.6	46.2	53.1	57.7	60.1	57.7
85°	0.0	2.3	4.6	11.5	20.7	25.4	23.1	16.1	13.9	16.1	11.5
87.5°	0.0	0.0	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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°	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6	1454.6
2.5°	1473.1	1463.8	1431.5	1396.9	1366.9	1380.7	1366.9	1355.3	1359.9	1355.3	1350.7
5°	1553.9	1512.3	1443.1	1413.0	1387.6	1385.4	1378.4	1376.1	1378.4	1378.4	1357.6
7.5°	1630.0	1563.1	1489.2	1456.9	1426.9	1429.2	1413.0	1413.0	1410.7	1399.1	1394.5
10°	1745.5	1655.5	1560.8	1503.0	1466.2	1459.2	1443.1	1426.9	1426.9	1426.9	1403.8
12.5°	1872.5	1759.3	1630.0	1563.1	1519.3	1484.6	1459.2	1454.6	1429.2	1424.6	1413.0
15°	1983.3	1840.2	1676.2	1583.9	1528.5	1482.3	1443.1	1417.6	1406.1	1399.1	1389.9
17.5°	2091.9	1909.4	1701.6	1583.9	1523.9	1470.8	1429.2	1406.1	1378.4	1383.0	1364.5
20°	2237.3	1983.3	1708.6	1553.9	1479.9	1429.2	1373.8	1362.3	1346.1	1332.2	1336.8
22.5°	2378.1	2036.4	1687.8	1516.9	1410.7	1350.7	1323.0	1309.1	1302.2	1290.7	1274.5
25°	2505.1	2094.1	1655.5	1450.0	1336.8	1293.0	1267.6	1265.2	1249.1	1249.1	1219.1
27.5°	2634.4	2115.0	1600.1	1371.5	1272.2	1246.8	1235.3	1230.6	1223.7	1207.5	1186.8
30°	2782.2	2121.9	1519.3	1290.7	1214.4	1186.8	1202.9	1214.4	1184.4	1154.5	1163.7
32.5°	2904.5	2105.7	1422.2	1214.4	1172.9	1159.1	1191.4	1202.9	1168.3	1136.0	1119.8
35°	3052.3	2066.4	1327.6	1154.5	1131.4	1159.1	1186.8	1186.8	1117.5	1078.3	1069.0
37.5°	3276.3	2022.6	1239.9	1103.6	1087.5	1145.2	1182.2	1156.7	1048.2	999.7	988.2
40°	3516.4	1994.8	1154.5	1052.8	1064.4	1122.1	1142.9	1064.4	953.5	923.5	914.3
42.5°	3865.0	1939.5	1078.3	1009.0	1043.6	1089.8	1089.8	948.9	907.4	891.2	888.9
45°	4299.1	1900.2	1011.3	972.0	1013.6	1025.1	988.2	888.9	858.9	854.3	856.6
47.5°	4511.6	1824.0	942.0	928.2	958.2	960.5	863.5	840.4	815.0	808.1	803.5
50°	4479.2	1687.8	852.0	870.5	912.0	888.9	787.3	791.9	768.8	766.6	755.0
52.5°	4252.9	1473.1	761.9	805.8	852.0	785.0	725.0	720.4	720.4	690.4	678.8
55°	3770.4	1186.8	653.4	708.8	764.2	660.3	644.2	639.6	628.0	600.3	593.4
57.5°	2985.3	870.5	491.8	551.9	648.8	561.0	558.7	538.0	507.9	487.2	487.2
60°	1775.5	501.0	309.4	337.1	429.5	454.8	505.7	496.4	445.6	413.3	404.0
62.5°	810.4	258.6	196.2	200.8	230.9	295.5	397.1	459.5	387.9	332.5	327.8
65°	272.5	191.6	161.6	154.7	159.3	177.8	237.8	325.6	309.4	256.3	247.0
67.5°	166.2	170.9	152.4	140.9	140.9	138.5	136.2	147.8	182.4	177.8	180.1
70°	143.1	157.0	140.9	127.0	122.4	115.4	96.9	80.8	69.3	80.8	85.4
72.5°	115.4	124.7	120.0	108.5	96.9	87.8	69.3	53.1	39.2	34.6	34.6
75°	85.4	92.4	96.9	83.2	73.9	62.3	50.8	34.6	20.7	13.9	13.9
77.5°	62.3	69.3	71.6	64.7	55.4	43.8	32.3	23.1	11.5	4.6	4.6
80°	53.1	62.3	69.3	64.7	57.7	41.6	30.0	16.1	9.2	2.3	2.3
82.5°	50.8	62.3	69.3	62.3	55.4	39.2	30.0	18.5	6.9	2.3	2.3
85°	11.5	16.1	20.7	25.4	30.0	30.0	23.1	13.9	6.9	2.3	2.3
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	2.3	2.3	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)