

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: P648282

Luminaire Tested: **GALN-SA2B-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648282
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-SA2B-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA 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: 7873.9 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

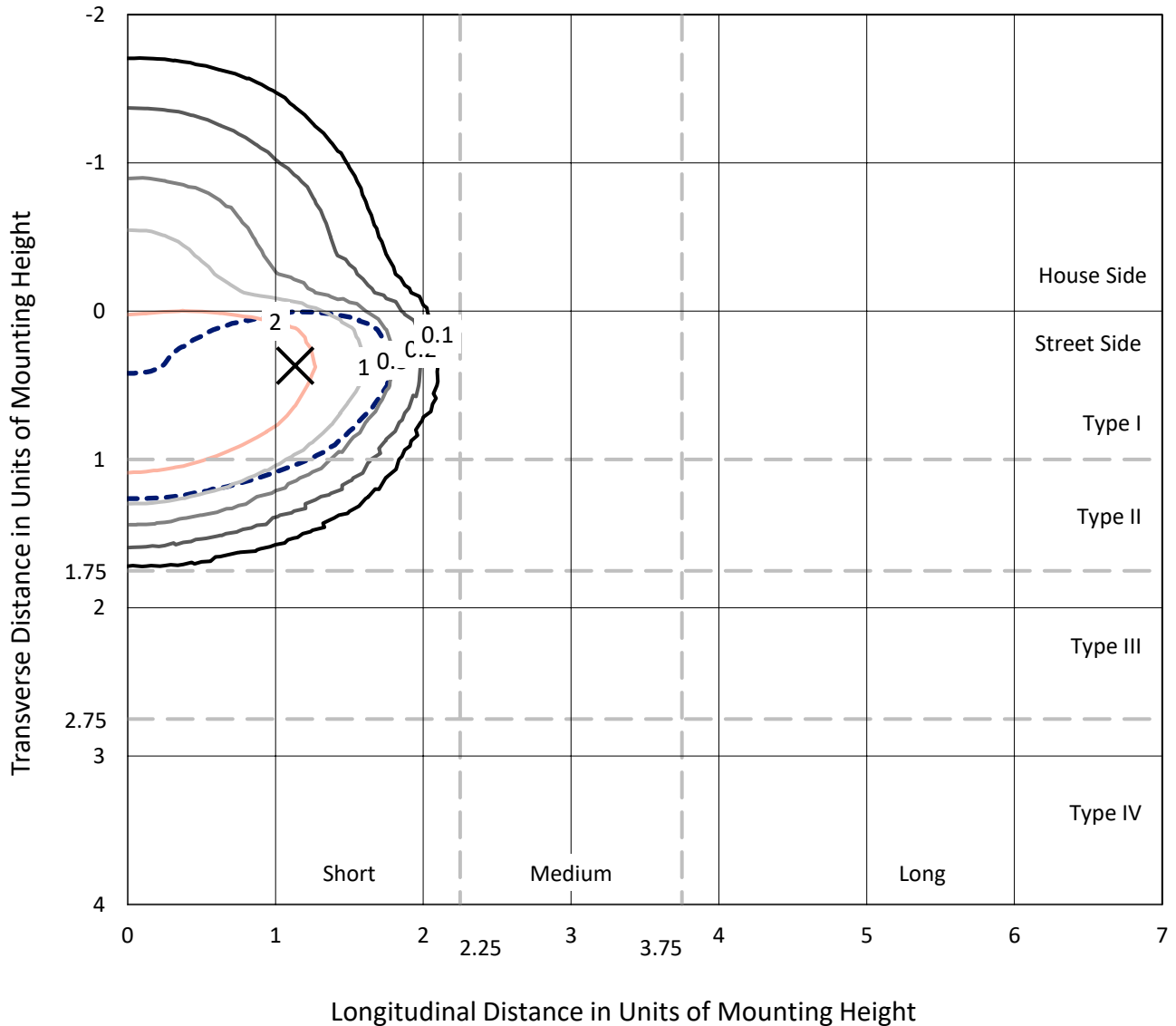
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

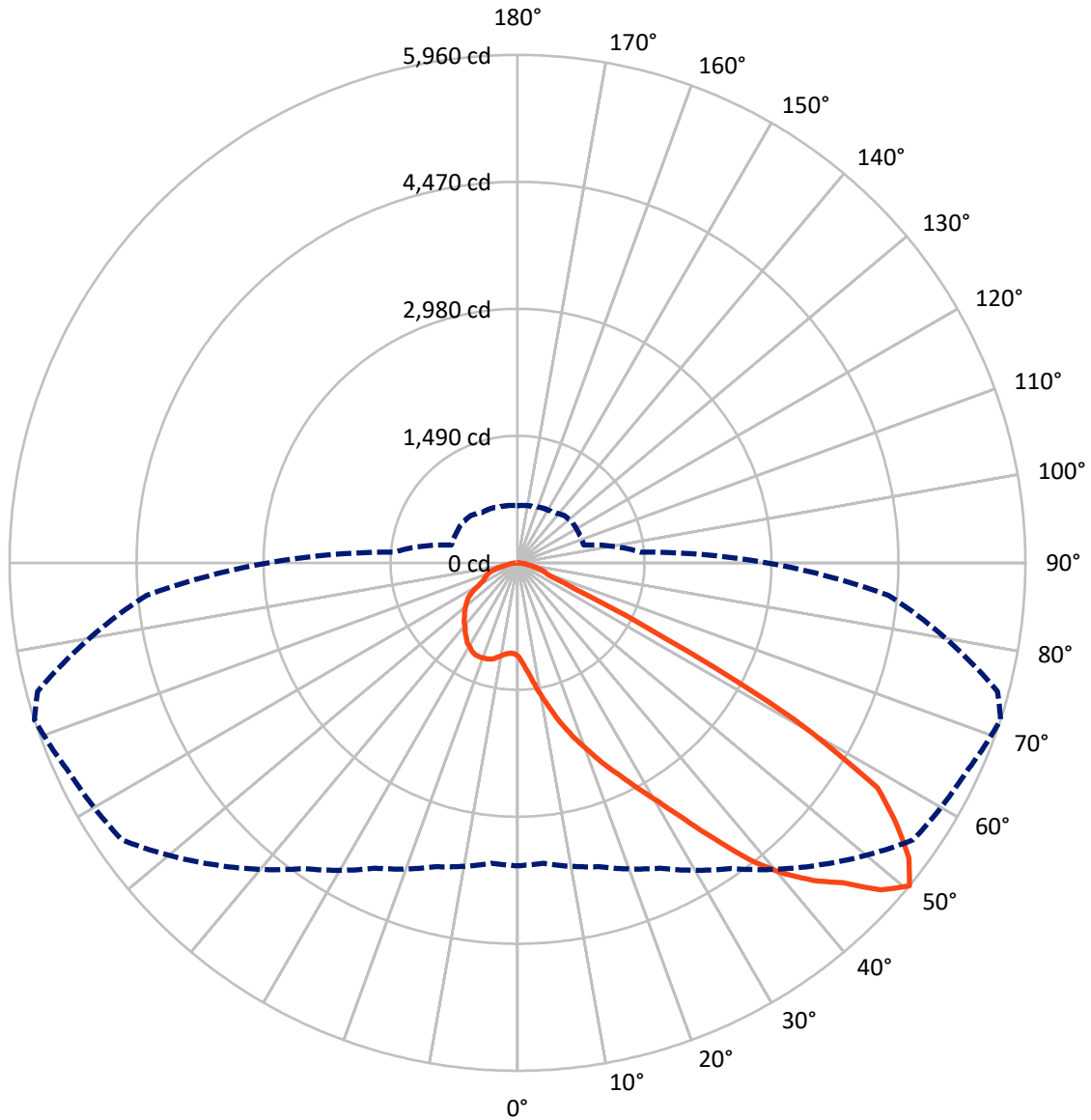
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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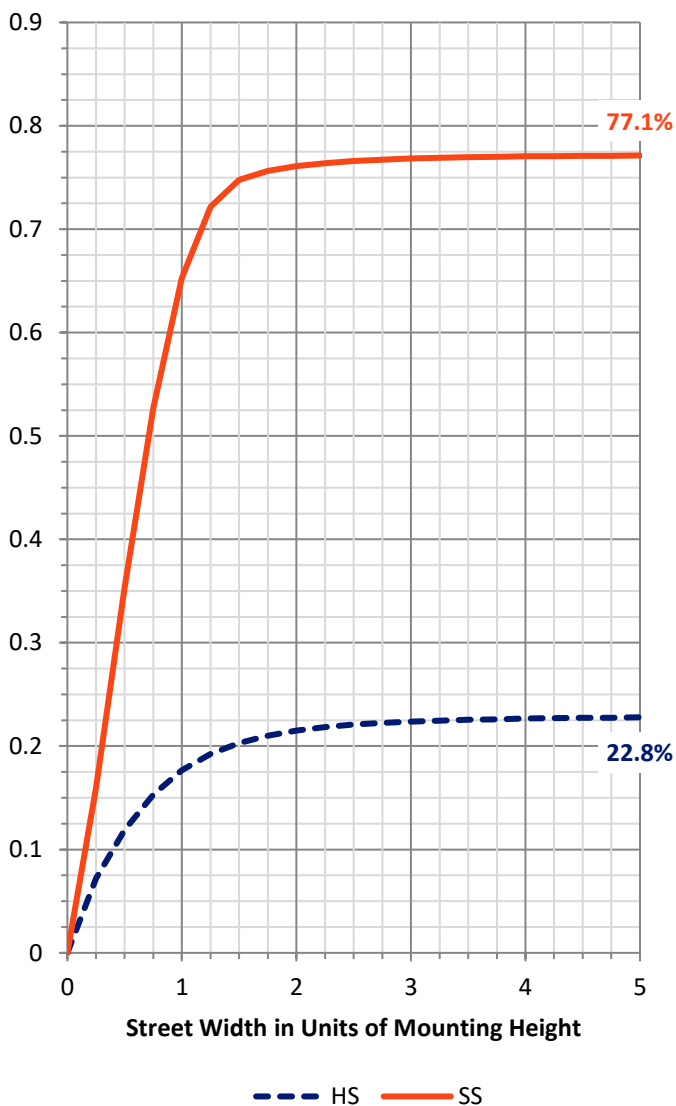
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1803.9	0.0	1803.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6069.9	0.0	6069.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	7873.9	0.0	7873.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	1.6
10°-20°	482.0	6.1
20°-30°	934.5	11.9
30°-40°	1548.2	19.7
40°-50°	2166.3	27.5
50°-60°	1827.5	23.2
60°-70°	557.0	7.1
70°-80°	195.4	2.5
80°-90°	34.0	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°	7873.9	100.0
0°-180°	7873.9	100.0

Coefficient of Utilization

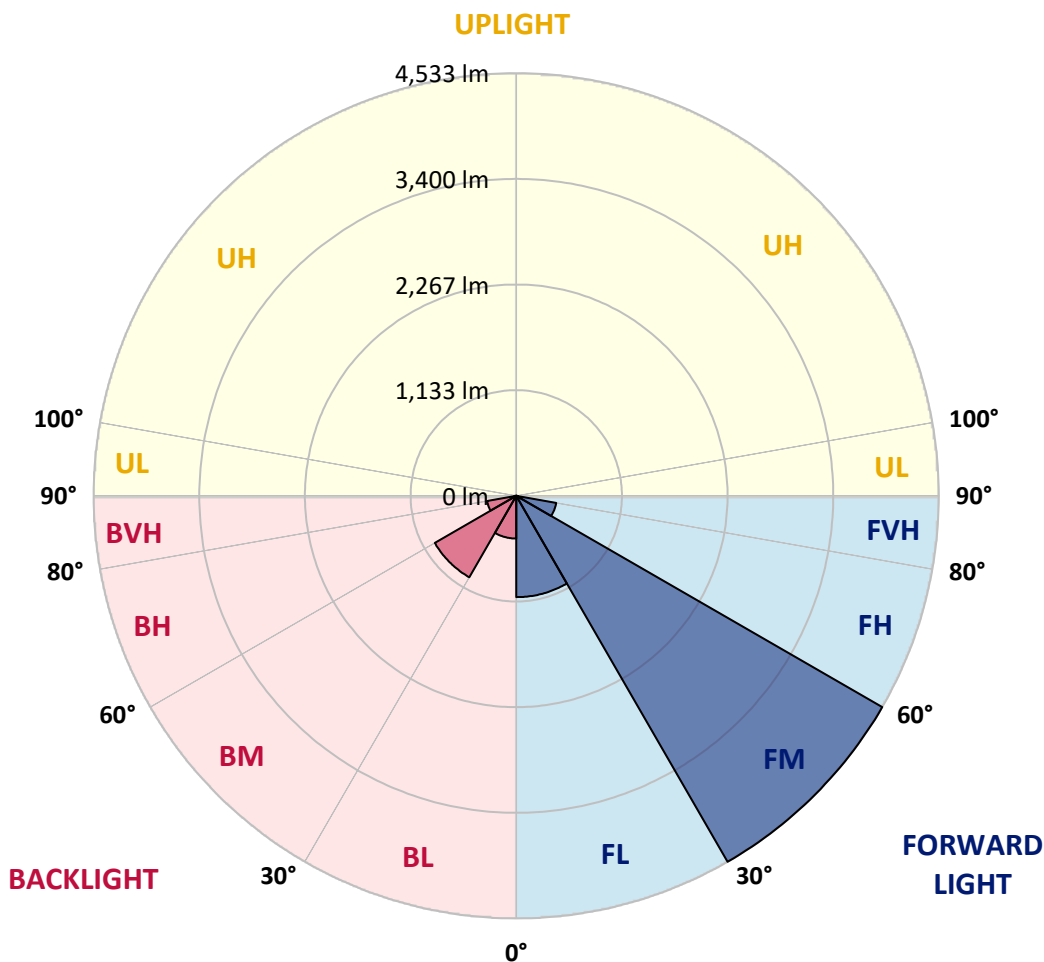


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.9	13.8			
FM (30°-60°)	4533.2	57.6			
FH (60°-80°)	434.6	5.5			G0/660
FVH (80°-90°)	15.2	0.2			G1/100
BL (0°-30°)	458.6	5.8	B1/500		
BM (30°-60°)	1008.8	12.8	B2/2500		
BH (60°-80°)	317.8	4.0	B1/500		G1/500
BVH (80°-90°)	18.8	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°	1096.1	1096.1	1096.1	1096.1	1096.1	1096.1	1096.1	1096.1	1096.1	1096.1	1096.1
2.5°	1409.9	1401.1	1374.8	1366.0	1334.8	1278.3	1258.8	1201.4	1177.0	1154.5	1128.2
5°	1783.0	1742.1	1739.1	1689.5	1617.4	1575.5	1450.7	1367.0	1290.0	1251.0	1178.9
7.5°	2020.8	2021.7	2021.7	1980.8	1923.3	1817.1	1705.1	1554.0	1438.1	1380.6	1257.8
10°	2246.7	2227.3	2216.6	2212.7	2173.7	2070.4	1950.6	1763.6	1604.7	1537.5	1317.2
12.5°	2406.6	2390.0	2414.4	2401.7	2373.4	2306.2	2193.2	1979.8	1781.1	1690.4	1412.8
15°	2482.6	2494.2	2513.7	2548.8	2536.1	2510.8	2386.1	2202.0	1971.0	1868.7	1497.5
17.5°	2599.5	2567.3	2590.7	2634.6	2669.6	2658.0	2586.8	2362.7	2159.1	2033.4	1611.5
20°	2681.3	2662.8	2674.5	2725.2	2751.5	2817.7	2780.7	2573.2	2339.4	2206.8	1746.0
22.5°	2915.2	2887.9	2849.9	2857.6	2867.4	2914.2	2922.9	2804.1	2548.8	2408.5	1873.6
25°	3203.6	3178.2	3133.4	3087.6	3059.3	3050.6	3080.8	2985.3	2749.5	2604.3	2011.0
27.5°	3521.2	3478.3	3450.1	3355.5	3279.5	3267.9	3253.2	3201.6	2987.2	2830.4	2165.9
30°	3830.0	3795.9	3757.9	3606.9	3528.0	3515.4	3443.2	3457.9	3245.5	3071.1	2341.2
32.5°	4063.8	4066.8	3980.1	3866.1	3792.1	3724.8	3698.5	3740.4	3576.7	3436.4	2537.2
35°	4252.9	4261.6	4178.9	4075.6	3995.6	4042.5	4030.7	4050.2	3972.3	3800.8	2765.1
37.5°	4437.0	4393.2	4304.5	4254.8	4212.9	4289.9	4389.3	4405.9	4420.5	4218.8	3030.1
40°	4467.2	4471.2	4419.5	4454.6	4401.9	4517.9	4748.8	4727.4	4786.8	4610.5	3317.6
42.5°	4424.3	4433.1	4453.6	4503.3	4630.0	4769.3	5112.2	5024.6	5096.6	4939.8	3597.2
45°	4354.2	4318.2	4343.5	4532.6	4751.7	5061.5	5444.5	5376.3	5352.9	5221.4	3930.4
47.5°	4019.1	4056.1	4135.0	4367.9	4697.2	5112.2	5680.3	5664.7	5734.8	5642.3	4233.4
50°	3554.3	3539.7	3691.7	3953.8	4378.6	5012.8	5667.6	5808.8	5959.9	5831.3	4368.8
52.5°	2661.8	2739.8	2870.3	3195.7	3801.8	4471.2	5390.9	5626.7	5749.4	5722.2	4259.7
55°	1682.7	1706.0	1784.9	2171.7	2717.4	3588.4	4621.2	5167.8	5387.0	5489.3	4159.4
57.5°	817.5	773.6	870.1	1180.8	1569.6	2413.4	3564.1	4501.3	4977.8	5162.9	3941.1
60°	426.7	443.3	481.3	592.4	811.6	1253.0	2221.4	2999.9	3727.7	4012.2	2987.2
62.5°	353.7	359.6	384.8	440.4	539.8	721.0	1134.1	1462.5	1900.9	2157.2	1699.2
65°	300.1	303.0	330.3	367.3	430.6	507.6	583.6	610.9	739.5	759.0	604.1
67.5°	250.4	253.3	282.6	317.7	358.5	379.0	398.5	396.5	411.2	405.3	404.3
70°	192.9	195.8	226.1	263.1	283.5	271.9	332.2	345.9	351.7	356.6	364.4
72.5°	139.3	145.2	168.6	194.9	184.2	211.4	273.8	294.3	302.0	305.0	314.7
75°	101.3	103.3	109.2	101.3	116.9	147.1	192.9	218.2	228.0	230.9	245.5
77.5°	44.8	45.8	46.7	58.5	75.0	91.6	114.9	135.5	149.1	153.0	156.8
80°	23.4	24.4	30.2	39.9	53.6	67.3	83.8	95.4	104.2	105.2	109.2
82.5°	14.6	15.6	21.5	28.3	38.0	49.7	61.4	71.1	77.9	78.9	79.9
85°	6.8	8.8	12.7	17.5	25.4	32.2	33.1	28.3	30.2	31.2	29.2
87.5°	2.0	2.9	3.9	2.9	3.9	3.9	4.9	5.9	5.9	5.9	6.8
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°	1096.1	1096.1	1096.1	1096.1	1096.1	1096.1	1096.1	1096.1	1096.1	1096.1	1096.1
2.5°	1113.7	1104.9	1070.8	1058.1	1024.9	1030.8	1013.3	1012.3	1008.4	1007.4	1006.5
5°	1140.9	1113.7	1072.7	1041.5	1023.1	1021.1	1008.4	1008.4	1012.3	1015.2	1008.4
7.5°	1185.8	1154.5	1085.4	1056.2	1039.6	1036.7	1027.9	1021.1	1029.9	1026.9	1019.2
10°	1237.4	1182.8	1109.7	1084.4	1057.1	1050.3	1050.3	1053.2	1038.6	1043.5	1035.7
12.5°	1294.8	1221.8	1140.9	1111.7	1079.5	1075.6	1073.7	1052.3	1060.0	1056.2	1036.7
15°	1368.0	1266.6	1180.8	1131.2	1103.9	1086.3	1061.0	1057.1	1052.3	1042.5	1033.7
17.5°	1446.8	1315.4	1199.4	1137.0	1096.1	1083.4	1063.9	1043.5	1028.9	1030.8	1024.0
20°	1514.1	1360.1	1206.2	1142.9	1090.2	1065.9	1035.7	1023.1	1007.4	1006.5	1005.5
22.5°	1594.0	1420.5	1215.9	1127.3	1072.7	1047.4	1026.9	1004.5	993.8	980.2	987.0
25°	1689.5	1443.9	1217.9	1118.5	1060.0	1015.2	1004.5	980.2	976.2	956.7	960.7
27.5°	1758.6	1456.6	1202.3	1091.3	1030.8	996.8	977.3	959.7	952.9	938.3	934.4
30°	1851.2	1476.1	1169.2	1057.1	1001.6	963.6	951.9	948.0	928.6	912.9	911.0
32.5°	1956.4	1488.7	1147.7	1022.0	971.4	942.2	948.0	929.5	905.1	891.5	887.6
35°	2040.2	1493.7	1094.2	982.1	951.0	932.4	925.6	921.7	886.6	874.0	864.2
37.5°	2167.9	1482.9	1049.4	953.9	928.6	921.7	915.9	889.6	849.6	831.1	817.5
40°	2316.9	1480.0	991.8	913.9	907.1	914.9	897.3	856.4	800.9	780.4	770.7
42.5°	2460.2	1500.5	955.8	892.5	883.7	886.6	862.2	800.9	773.6	761.9	746.4
45°	2699.9	1543.3	896.4	859.3	855.4	853.5	824.3	760.0	744.4	729.8	726.9
47.5°	2916.1	1515.0	858.4	825.3	829.1	818.4	756.1	735.6	718.1	703.4	698.6
50°	2928.8	1447.8	804.8	799.0	799.9	781.4	722.0	708.3	685.9	676.2	669.4
52.5°	2862.6	1337.8	755.1	757.1	760.0	729.8	680.0	670.3	651.8	638.1	634.3
55°	2676.5	1166.3	706.3	714.2	722.0	664.5	648.9	624.5	610.0	590.5	591.4
57.5°	2357.8	939.2	638.1	650.8	667.4	604.1	592.4	562.2	540.7	525.2	523.2
60°	1580.3	668.4	535.9	540.7	577.8	552.4	551.5	521.2	492.0	478.4	470.6
62.5°	932.4	510.5	462.8	457.9	457.0	471.6	496.0	485.2	447.2	420.9	428.7
65°	488.1	441.4	430.6	414.1	404.3	400.4	419.0	423.8	398.5	370.2	368.3
67.5°	410.2	410.2	401.4	395.6	381.9	365.3	353.7	338.1	334.2	326.4	316.6
70°	373.2	382.9	380.0	366.4	354.6	336.1	305.9	280.6	256.3	247.5	253.3
72.5°	325.4	335.2	335.2	328.3	312.7	284.5	255.3	226.1	205.6	190.0	188.1
75°	250.4	255.3	266.9	259.2	238.7	221.2	191.0	160.7	141.3	126.7	123.7
77.5°	159.8	167.6	167.6	166.6	152.0	135.5	116.0	94.5	79.9	69.1	66.2
80°	106.2	111.1	114.9	111.1	101.3	88.6	74.1	59.4	48.7	39.9	38.0
82.5°	77.9	83.8	86.7	82.8	73.1	63.3	52.6	41.9	31.2	24.4	22.4
85°	30.2	31.2	35.1	41.9	41.0	39.9	32.2	23.4	17.5	12.7	11.7
87.5°	7.8	6.8	7.8	7.8	6.8	5.9	5.9	5.9	5.9	2.9	3.9
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)