

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: P652242

Luminaire Tested: **GALN-SA2B-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652242
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-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 8457.1 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

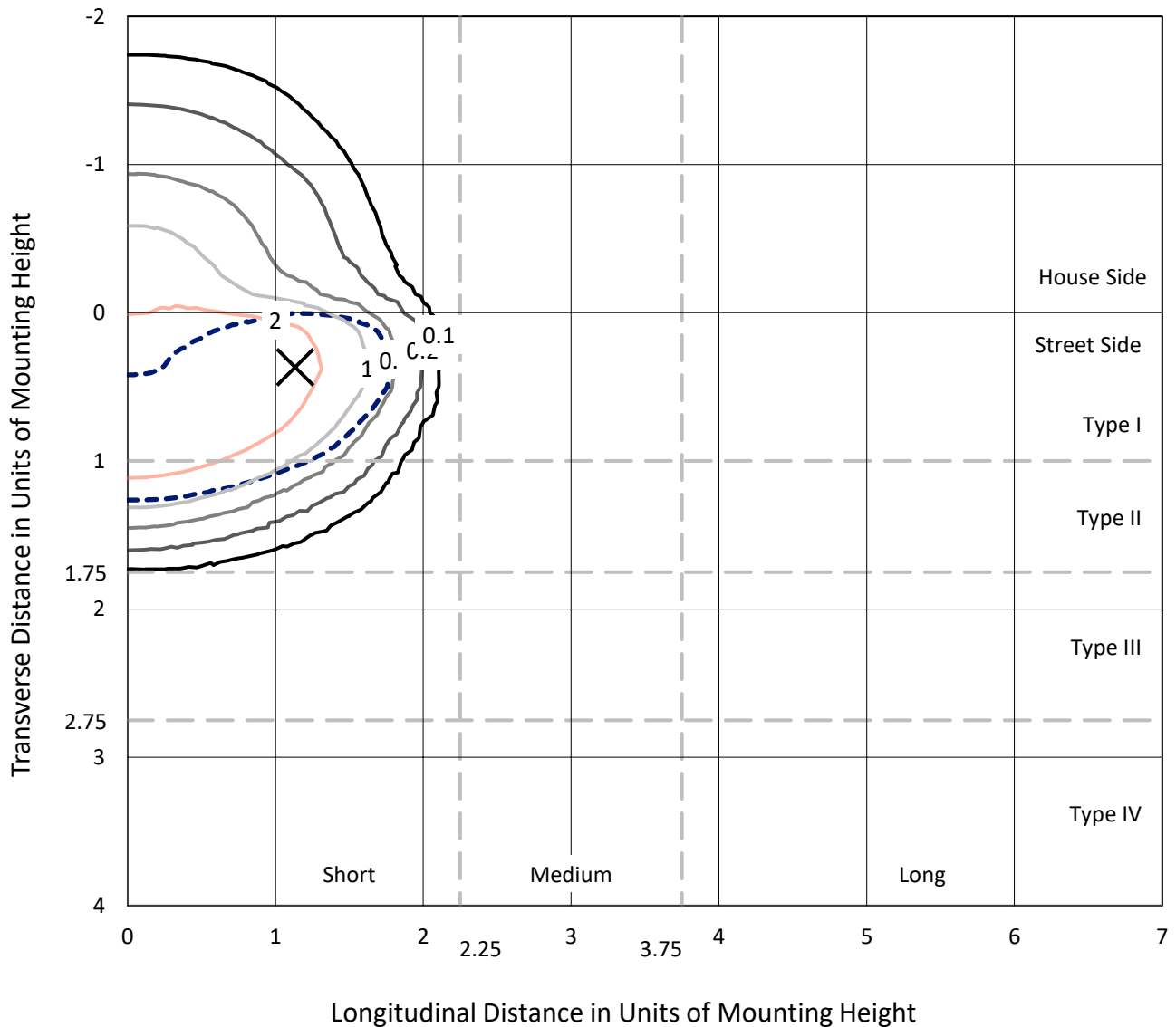
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA2B-840-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

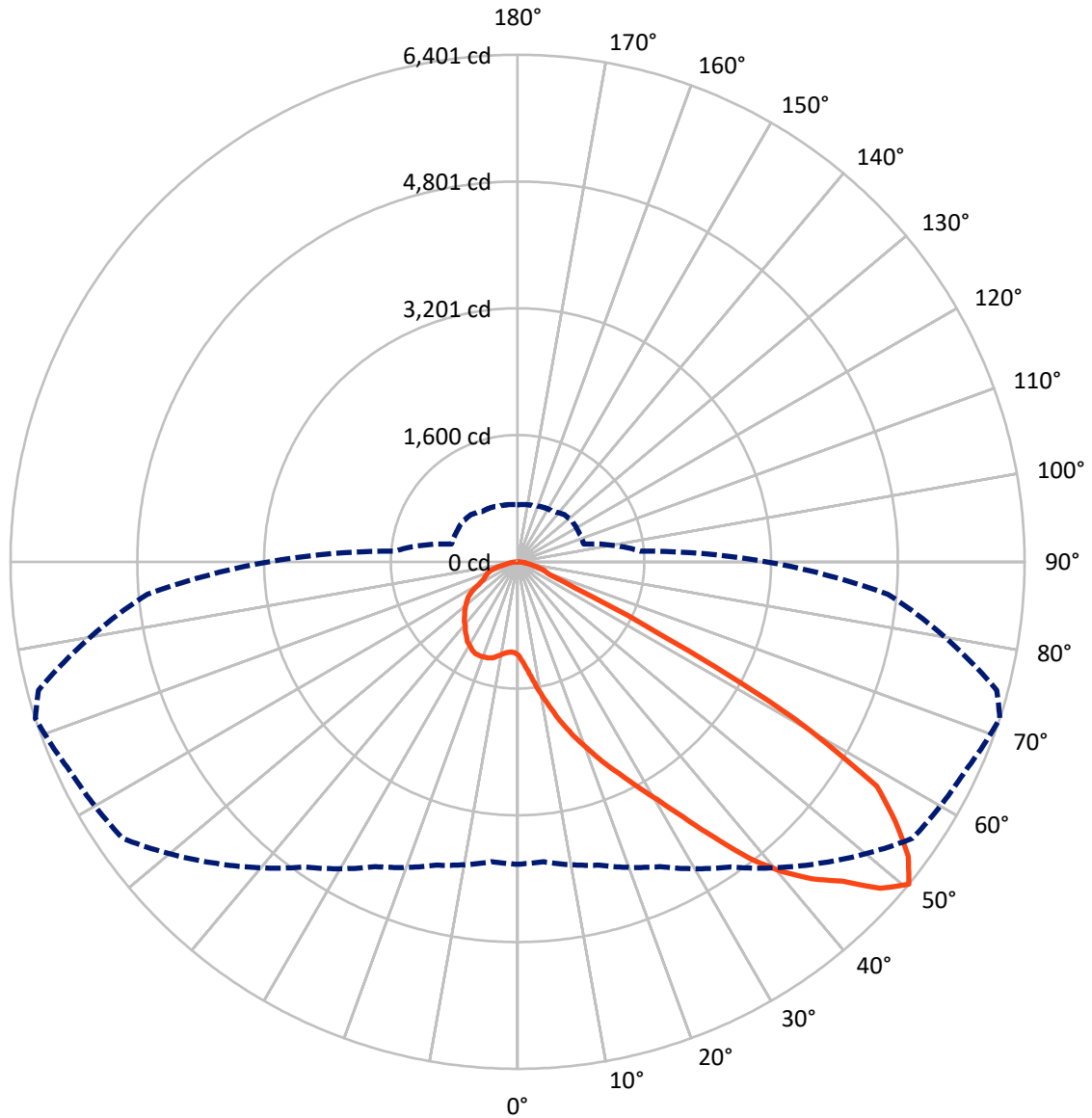
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

REPORT NUMBER: P652242
CATALOG NUMBER: GALN-SA2B-840-U-T2R-GRSWH

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA2B-840-U-T2R-GRSWH

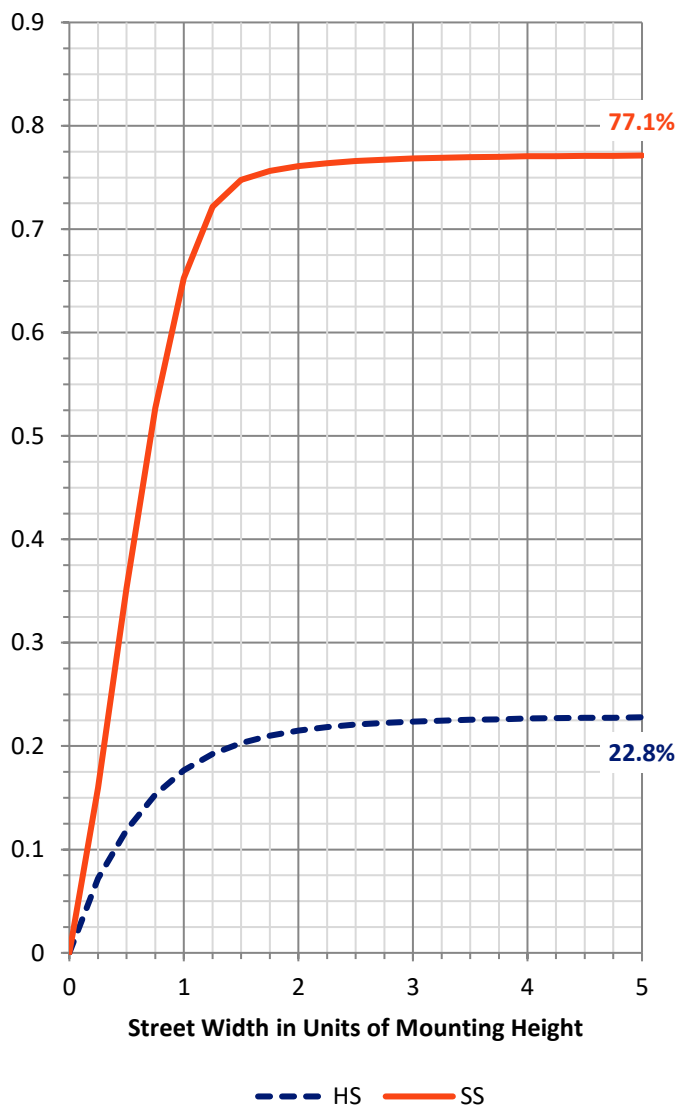
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1937.6	0.0	1937.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6519.5	0.0	6519.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	8457.1	0.0	8457.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	1.6
10°-20°	517.7	6.1
20°-30°	1003.8	11.9
30°-40°	1662.9	19.7
40°-50°	2326.7	27.5
50°-60°	1962.9	23.2
60°-70°	598.3	7.1
70°-80°	209.9	2.5
80°-90°	36.5	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°	8457.1	100.0
0°-180°	8457.1	100.0

Coefficient of Utilization

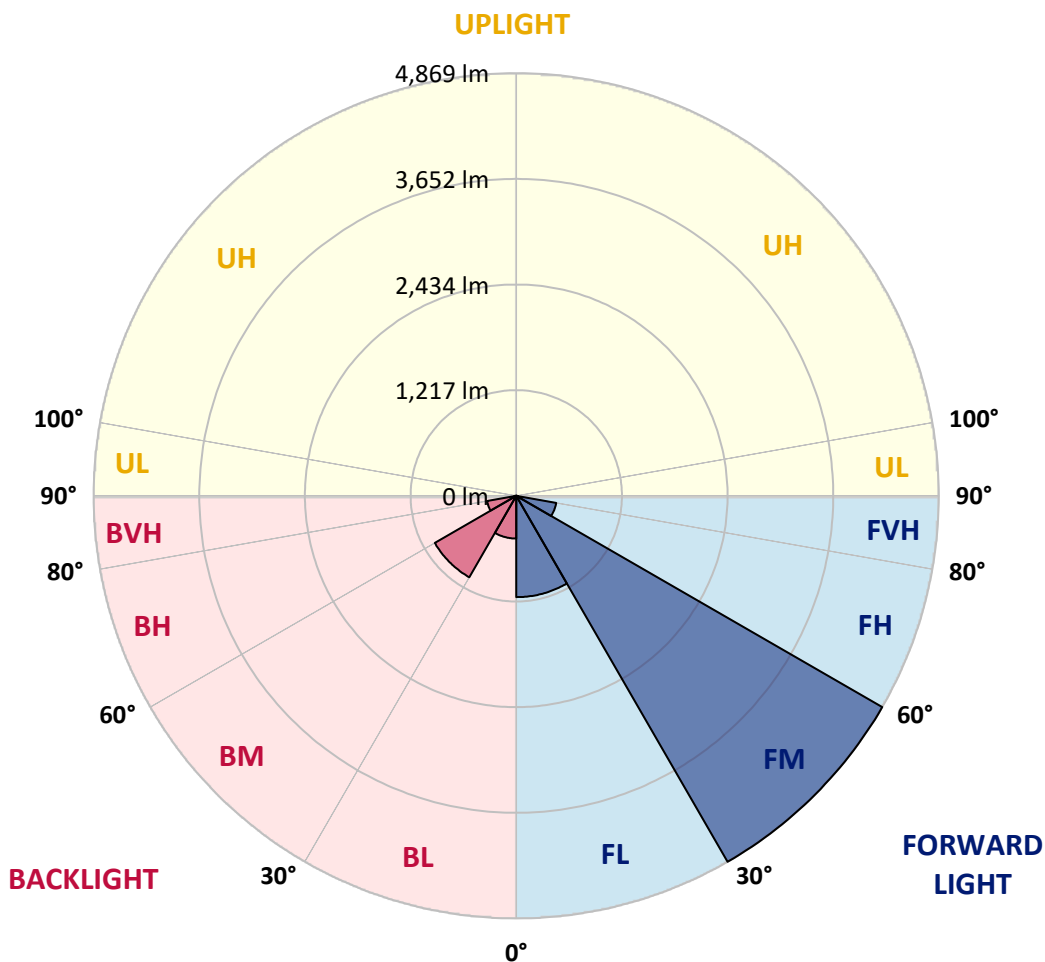


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1167.4	13.8			
FM (30°-60°)	4869.0	57.6			
FH (60°-80°)	466.8	5.5			G0/660
FVH (80°-90°)	16.3	0.2			G1/100
BL (0°-30°)	492.5	5.8	B1/500		
BM (30°-60°)	1083.5	12.8	B2/2500		
BH (60°-80°)	341.4	4.0	B1/500		G1/500
BVH (80°-90°)	20.1	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°	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3
2.5°	1514.3	1504.9	1476.6	1467.2	1433.7	1373.0	1352.1	1290.3	1264.2	1240.1	1211.8
5°	1915.0	1871.1	1867.9	1814.6	1737.2	1692.2	1558.2	1468.2	1385.5	1343.7	1266.2
7.5°	2170.5	2171.5	2171.5	2127.5	2065.7	1951.7	1831.4	1669.1	1544.6	1482.9	1351.0
10°	2413.2	2392.3	2380.8	2376.6	2334.7	2223.8	2095.1	1894.2	1723.5	1651.4	1414.8
12.5°	2584.8	2567.1	2593.2	2579.6	2549.2	2477.0	2355.6	2126.5	1913.0	1815.6	1517.4
15°	2666.5	2679.0	2699.9	2737.6	2724.0	2696.8	2562.9	2365.1	2117.0	2007.1	1608.4
17.5°	2792.0	2757.5	2782.6	2829.7	2867.4	2854.9	2778.4	2537.7	2319.1	2184.0	1730.9
20°	2879.9	2860.1	2872.6	2927.0	2955.3	3026.4	2986.6	2763.8	2512.7	2370.3	1875.3
22.5°	3131.1	3101.8	3061.0	3069.3	3079.8	3130.0	3139.5	3011.8	2737.6	2586.9	2012.4
25°	3440.9	3413.6	3365.5	3316.3	3286.0	3276.5	3309.0	3206.5	2953.2	2797.3	2159.9
27.5°	3782.0	3736.0	3705.6	3604.1	3522.4	3509.9	3494.2	3438.8	3208.5	3040.0	2326.4
30°	4113.8	4077.1	4036.3	3874.1	3789.4	3775.8	3698.3	3714.0	3485.9	3298.6	2514.7
32.5°	4364.9	4368.1	4274.9	4152.4	4073.0	4000.7	3972.5	4017.5	3841.7	3691.0	2725.1
35°	4567.9	4577.3	4488.4	4377.5	4291.6	4341.9	4329.3	4350.2	4266.6	4082.4	2969.9
37.5°	4765.7	4718.6	4623.4	4570.0	4525.0	4607.7	4714.4	4732.2	4747.9	4531.3	3254.6
40°	4798.2	4802.4	4746.9	4784.5	4728.0	4852.6	5100.6	5077.5	5141.4	4952.0	3563.3
42.5°	4752.1	4761.5	4783.5	4836.8	4972.9	5122.5	5490.9	5396.8	5474.2	5305.7	3863.6
45°	4676.7	4638.0	4665.3	4868.3	5103.7	5436.5	5847.8	5774.6	5749.4	5608.1	4221.6
47.5°	4316.8	4356.5	4441.3	4691.4	5045.2	5490.9	6101.0	6084.3	6159.7	6060.2	4547.0
50°	3817.6	3801.9	3965.1	4246.6	4703.0	5384.2	6087.4	6239.1	6401.4	6263.3	4692.4
52.5°	2859.0	2942.7	3082.9	3432.5	4083.4	4802.4	5790.2	6043.5	6175.3	6146.0	4575.2
55°	1807.3	1832.4	1917.1	2332.6	2918.7	3854.2	4963.5	5550.6	5786.0	5895.9	4467.5
57.5°	878.0	830.9	934.5	1268.3	1685.9	2592.1	3828.1	4834.7	5346.5	5545.4	4233.0
60°	458.3	476.2	517.0	636.3	871.7	1345.8	2386.0	3222.1	4003.8	4309.5	3208.5
62.5°	379.9	386.2	413.4	473.0	579.8	774.4	1218.1	1570.8	2041.7	2317.0	1825.1
65°	322.4	325.5	354.7	394.5	462.6	545.2	626.9	656.1	794.3	815.2	648.8
67.5°	269.0	272.1	303.5	341.2	385.1	407.0	428.0	425.9	441.6	435.3	434.3
70°	207.2	210.3	242.8	282.6	304.5	292.0	356.8	371.5	377.8	383.0	391.4
72.5°	149.6	155.9	181.1	209.3	197.8	227.1	294.1	316.0	324.4	327.6	338.0
75°	108.8	110.9	117.2	108.8	125.6	158.0	207.2	234.4	244.9	248.0	263.7
77.5°	48.1	49.2	50.2	62.8	80.6	98.4	123.5	145.5	160.1	164.3	168.5
80°	25.1	26.2	32.5	42.9	57.5	72.2	90.0	102.5	111.9	113.0	117.2
82.5°	15.7	16.7	23.0	30.4	40.8	53.4	65.9	76.4	83.7	84.8	85.8
85°	7.3	9.4	13.6	18.8	27.2	34.6	35.6	30.4	32.5	33.5	31.4
87.5°	2.1	3.1	4.2	3.1	4.2	4.2	5.2	6.3	6.3	6.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652242

CATALOG NUMBER: GALN-SA2B-840-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3
2.5°	1196.2	1186.7	1150.1	1136.5	1100.9	1107.2	1088.3	1087.3	1083.1	1082.0	1081.0
5°	1225.4	1196.2	1152.2	1118.7	1098.9	1096.7	1083.1	1083.1	1087.3	1090.4	1083.1
7.5°	1273.6	1240.1	1165.8	1134.4	1116.6	1113.5	1104.1	1096.7	1106.2	1103.0	1094.6
10°	1329.0	1270.4	1191.9	1164.7	1135.4	1128.1	1128.1	1131.2	1115.6	1120.8	1112.4
12.5°	1390.8	1312.3	1225.4	1194.1	1159.5	1155.3	1153.3	1130.2	1138.5	1134.4	1113.5
15°	1469.3	1360.4	1268.3	1215.0	1185.6	1166.8	1139.6	1135.4	1130.2	1119.7	1110.3
17.5°	1554.0	1412.8	1288.2	1221.2	1177.3	1163.7	1142.8	1120.8	1105.1	1107.2	1099.9
20°	1626.2	1460.9	1295.6	1227.5	1171.0	1144.9	1112.4	1098.9	1082.0	1081.0	1080.0
22.5°	1712.0	1525.7	1306.0	1210.8	1152.2	1125.0	1103.0	1078.9	1067.4	1052.8	1060.1
25°	1814.6	1550.9	1308.1	1201.4	1138.5	1090.4	1078.9	1052.8	1048.6	1027.6	1031.8
27.5°	1888.9	1564.5	1291.4	1172.1	1107.2	1070.6	1049.7	1030.8	1023.5	1007.8	1003.6
30°	1988.3	1585.5	1255.8	1135.4	1075.8	1035.0	1022.4	1018.2	997.3	980.5	978.5
32.5°	2101.3	1599.0	1232.7	1097.8	1043.3	1012.0	1018.2	998.4	972.2	957.6	953.4
35°	2191.3	1604.3	1175.2	1054.9	1021.4	1001.5	994.1	989.9	952.3	938.7	928.2
37.5°	2328.5	1592.8	1127.1	1024.5	997.3	989.9	983.7	955.5	912.6	892.6	878.0
40°	2488.5	1589.7	1065.3	981.6	974.3	982.6	963.8	919.9	860.2	838.2	827.8
42.5°	2642.4	1611.6	1026.6	958.6	949.2	952.3	926.1	860.2	830.9	818.4	801.6
45°	2899.9	1657.6	962.8	923.0	918.8	916.7	885.3	816.3	799.5	783.8	780.7
47.5°	3132.1	1627.3	922.0	886.4	890.5	879.0	812.1	790.1	771.3	755.6	750.3
50°	3145.8	1555.1	864.4	858.2	859.2	839.3	775.5	760.8	736.7	726.3	719.0
52.5°	3074.6	1436.8	811.1	813.2	816.3	783.8	730.4	720.0	700.1	685.4	681.3
55°	2874.7	1252.7	758.7	767.1	775.5	713.7	696.9	670.8	655.1	634.2	635.2
57.5°	2532.5	1008.8	685.4	699.0	716.9	648.8	636.3	603.8	580.8	564.1	562.0
60°	1697.4	717.9	575.6	580.8	620.6	593.3	592.3	559.9	528.5	513.9	505.4
62.5°	1001.5	548.3	497.1	491.8	490.8	506.5	532.7	521.2	480.4	452.1	460.4
65°	524.3	474.1	462.6	444.7	434.3	430.1	450.0	455.2	428.0	397.6	395.6
67.5°	440.6	440.6	431.2	424.9	410.2	392.4	379.9	363.1	358.9	350.6	340.1
70°	400.8	411.2	408.1	393.5	380.9	361.0	328.6	301.4	275.3	265.8	272.1
72.5°	349.5	360.0	360.0	352.6	335.9	305.5	274.2	242.8	220.8	204.0	202.0
75°	269.0	274.2	286.7	278.4	256.4	237.6	205.1	172.7	151.7	136.1	132.9
77.5°	171.6	180.0	180.0	179.0	163.2	145.5	124.6	101.5	85.8	74.3	71.1
80°	114.0	119.3	123.5	119.3	108.8	95.2	79.6	63.8	52.3	42.9	40.8
82.5°	83.7	90.0	93.1	89.0	78.5	68.0	56.5	45.0	33.5	26.2	24.1
85°	32.5	33.5	37.7	45.0	44.0	42.9	34.6	25.1	18.8	13.6	12.5
87.5°	8.4	7.3	8.4	8.4	7.3	6.3	6.3	6.3	6.3	3.1	4.2
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)