

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: P651306

Luminaire Tested: **GALN-SA3D-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651306
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-SA3D-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA 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: 12844.6 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

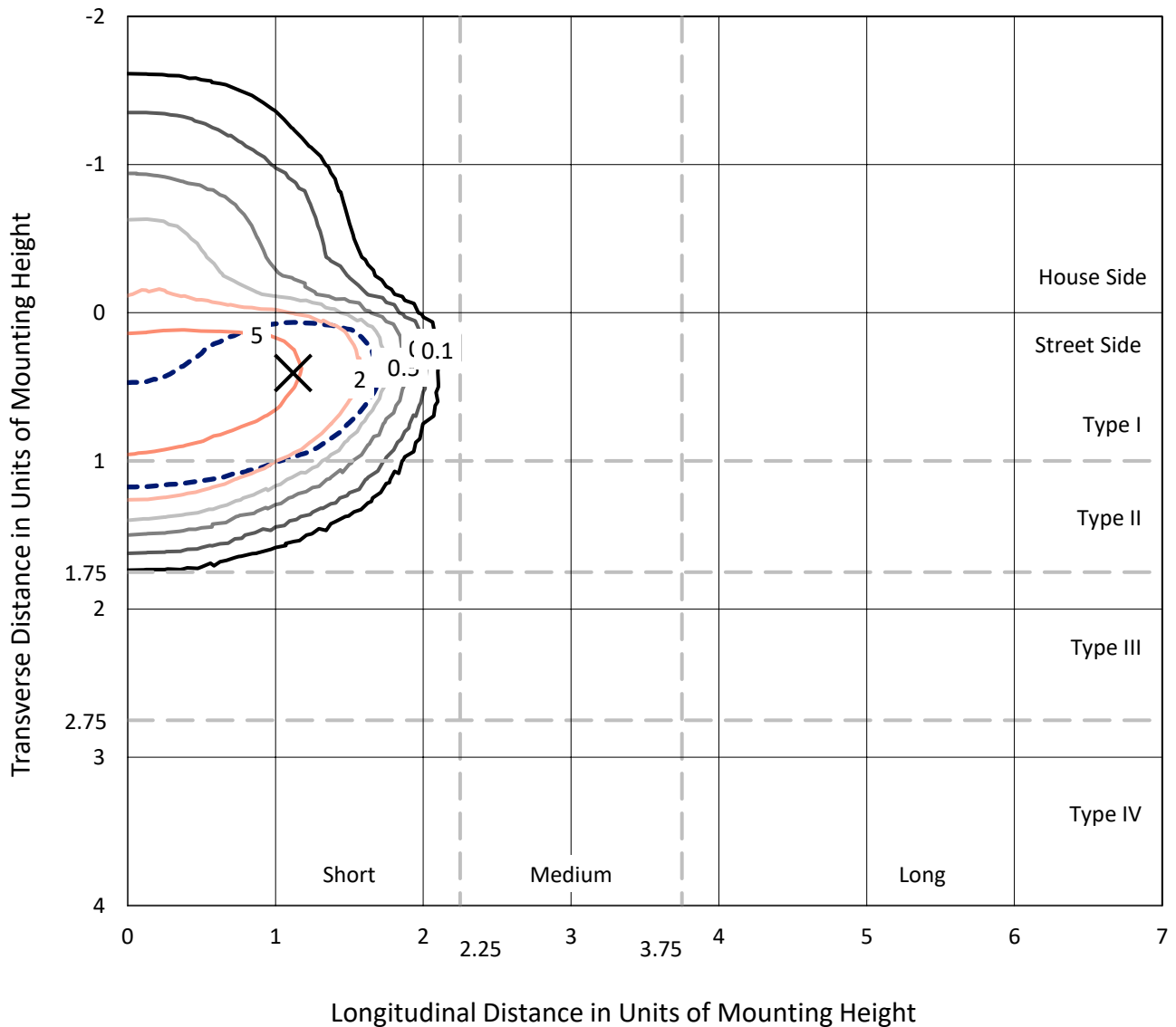
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651306
 CATALOG NUMBER: GALN-SA3D-840-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

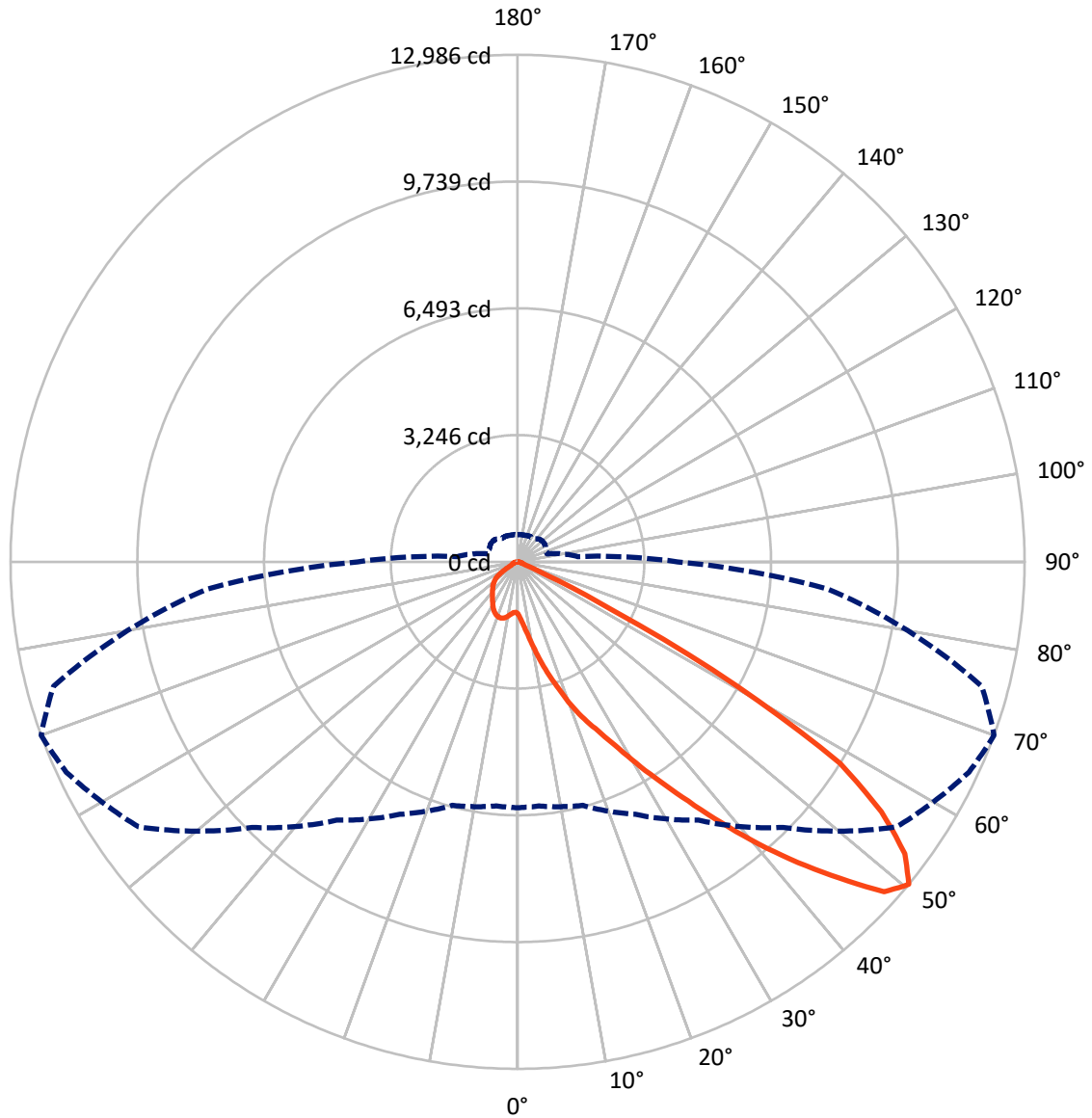
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type I - Short - N/A

REPORT NUMBER: P651306
CATALOG NUMBER: GALN-SA3D-840-U-T2R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651306
 CATALOG NUMBER: GALN-SA3D-840-U-T2R-GRSBK

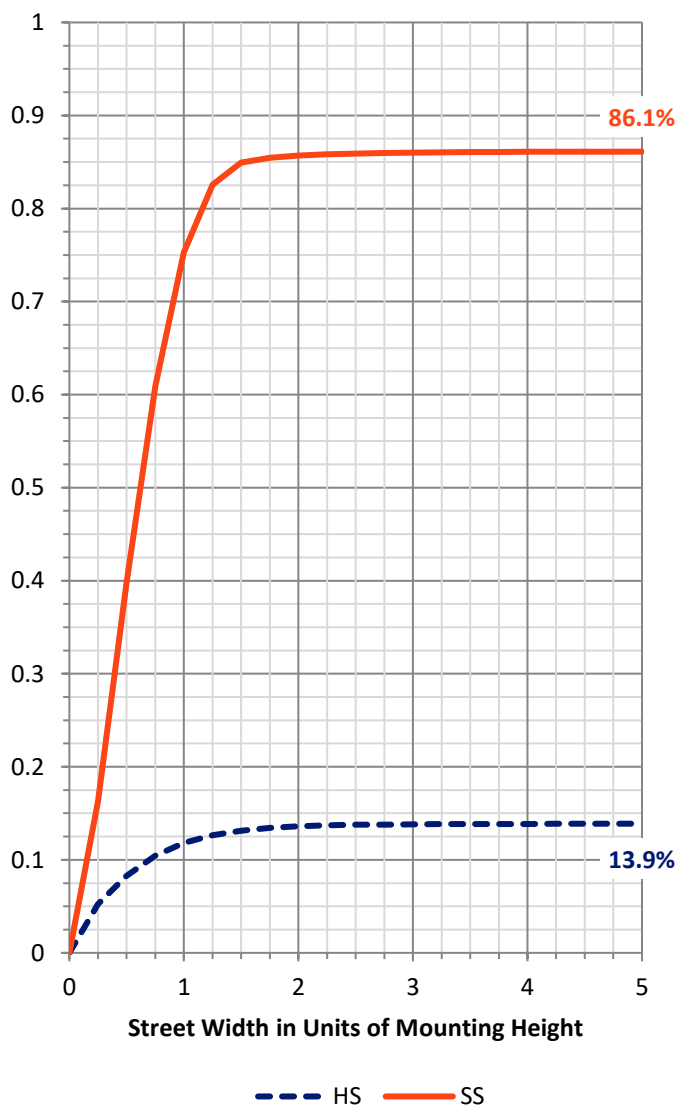
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1793.8	0.0	1793.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	11050.8	0.0	11050.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	12844.6	0.0	12844.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	1.3
10°-20°	748.4	5.8
20°-30°	1569.9	12.2
30°-40°	2706.1	21.1
40°-50°	3954.9	30.8
50°-60°	3080.2	24.0
60°-70°	521.9	4.1
70°-80°	71.7	0.6
80°-90°	18.6	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°	12844.6	100.0
0°-180°	12844.6	100.0

Coefficient of Utilization

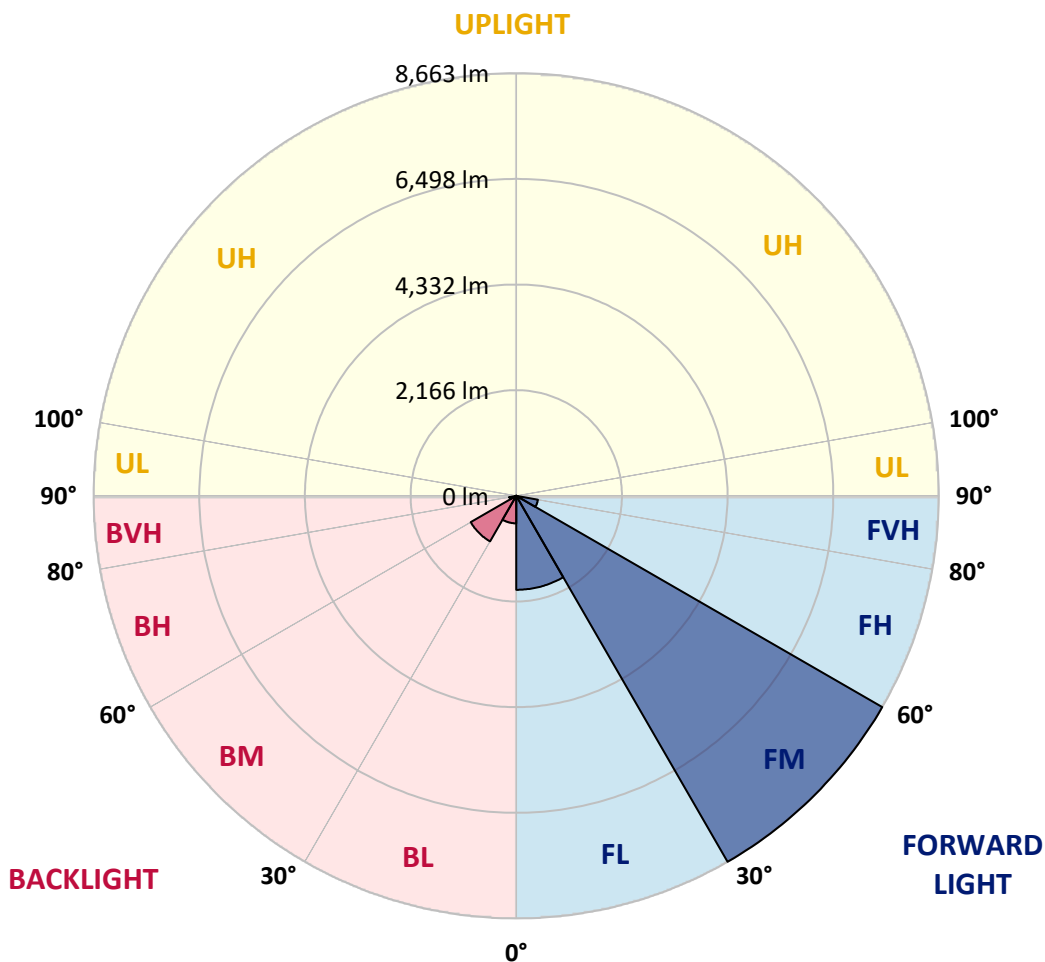


REPORT NUMBER: P651306
 CATALOG NUMBER: GALN-SA3D-840-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1926.8	15.0			
FM (30°-60°)	8663.5	67.4			
FH (60°-80°)	451.9	3.5			G0/660
FVH (80°-90°)	8.6	0.1			G0/10
BL (0°-30°)	564.5	4.4	B2/1000		
BM (30°-60°)	1077.7	8.4	B2/2500		
BH (60°-80°)	141.7	1.1	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type I Short





REPORT NUMBER: P651306

CATALOG NUMBER: GALN-SA3D-840-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5
2.5°	1742.2	1729.6	1702.1	1651.5	1630.4	1579.7	1550.0	1493.0	1457.1	1417.0	1372.7
5°	2454.0	2388.4	2348.3	2291.3	2124.5	2021.0	1849.9	1704.2	1636.7	1562.7	1461.4
7.5°	3188.8	3146.6	3091.7	2969.2	2855.2	2639.8	2346.2	2025.2	1888.0	1761.2	1560.6
10°	3797.0	3678.8	3672.5	3581.7	3457.0	3199.4	2846.7	2447.6	2202.7	2016.8	1702.1
12.5°	4221.6	4113.8	4162.4	4151.8	4035.7	3799.1	3391.6	2863.6	2608.1	2318.8	1847.8
15°	4608.0	4563.6	4548.9	4536.2	4489.8	4314.4	3949.1	3370.5	3000.9	2652.4	2012.6
17.5°	4986.0	4872.0	4926.9	4937.4	4933.2	4774.9	4432.7	3851.9	3416.9	3005.1	2185.8
20°	5321.8	5332.4	5258.4	5243.6	5231.0	5224.6	4891.0	4329.2	3928.0	3374.7	2411.7
22.5°	5752.6	5678.7	5744.1	5701.9	5619.6	5568.8	5313.4	4751.6	4371.4	3820.2	2641.9
25°	6261.6	6320.7	6166.5	6149.6	6058.8	5883.6	5653.4	5224.6	4798.1	4234.2	2891.1
27.5°	6888.8	6785.3	6745.2	6652.2	6487.5	6413.6	6143.3	5712.5	5313.4	4669.2	3131.8
30°	7427.3	7399.8	7199.2	7089.4	6945.8	6943.6	6565.7	6373.4	5984.9	5351.4	3463.4
32.5°	7866.5	7746.2	7672.3	7596.2	7480.1	7511.7	7192.8	7091.5	6700.8	5984.9	3854.1
35°	8160.1	8073.5	8029.1	7913.0	7879.2	8020.7	7887.7	7845.4	7524.4	6876.1	4312.3
37.5°	8253.0	8280.5	8272.0	8126.2	8198.1	8580.3	8751.4	8641.6	8472.7	7815.8	4808.6
40°	8335.3	8354.3	8312.1	8483.2	8688.0	9123.1	9741.8	9560.2	9496.8	8768.3	5499.2
42.5°	8381.8	8367.0	8367.0	8662.7	8973.1	9847.4	10698.4	10578.1	10529.6	9781.9	6297.4
45°	8181.2	8037.6	8191.8	8593.0	9218.1	10204.4	11463.0	11629.8	11560.1	10987.8	7230.8
47.5°	7431.5	7520.2	7606.8	8143.2	8920.3	10094.5	11931.8	12499.9	12628.7	12001.5	7843.3
50°	6297.4	6278.4	6458.0	7133.7	8077.7	9621.5	11840.9	12751.2	12985.5	12305.6	7972.1
52.5°	4580.5	4719.9	4914.2	5585.8	6705.0	8396.6	10668.9	12102.8	12415.4	11931.8	7887.7
55°	2667.2	2513.1	2950.2	3518.3	4574.2	6333.3	9019.6	10728.0	11306.7	11251.7	7461.1
57.5°	1068.6	1034.8	1184.7	1596.6	2386.3	3925.9	6559.3	8814.8	9741.8	10305.7	6557.2
60°	468.9	458.3	538.5	650.4	975.6	1809.8	3588.0	5482.3	6449.5	7201.3	4513.0
62.5°	337.9	333.7	373.8	413.9	515.3	787.7	1507.8	2209.0	2753.9	3326.2	2021.0
65°	272.4	283.0	310.4	331.5	380.1	437.2	532.2	614.5	754.0	781.4	445.6
67.5°	221.8	230.2	255.5	278.8	287.2	236.5	245.0	215.4	215.4	192.2	154.2
70°	162.6	164.8	194.3	221.8	177.4	95.0	166.9	166.9	150.0	143.6	130.9
72.5°	120.3	122.4	145.7	137.3	69.7	59.1	122.4	135.1	122.4	116.1	105.6
75°	88.7	90.8	76.0	31.7	29.6	38.0	71.8	92.9	88.7	86.6	80.2
77.5°	16.9	12.7	10.6	14.8	21.1	31.7	46.4	57.0	59.1	63.3	59.1
80°	2.1	2.1	6.3	12.7	23.2	33.8	48.6	54.9	57.0	59.1	54.9
82.5°	0.0	2.1	6.3	12.7	23.2	31.7	42.2	48.6	52.8	54.9	52.8
85°	0.0	2.1	4.2	10.6	19.0	23.2	21.1	14.8	12.7	14.8	10.6
87.5°	0.0	0.0	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2	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



REPORT NUMBER: P651306

CATALOG NUMBER: GALN-SA3D-840-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5	1330.5
2.5°	1347.4	1338.9	1309.4	1277.6	1250.2	1262.8	1250.2	1239.6	1243.8	1239.6	1235.4
5°	1421.3	1383.3	1319.9	1292.4	1269.2	1267.1	1260.7	1258.6	1260.7	1260.7	1241.7
7.5°	1490.9	1429.7	1362.1	1332.6	1305.1	1307.3	1292.4	1292.4	1290.3	1279.7	1275.5
10°	1596.6	1514.1	1427.6	1374.8	1341.0	1334.7	1319.9	1305.1	1305.1	1305.1	1284.0
12.5°	1712.7	1609.2	1490.9	1429.7	1389.6	1357.9	1334.7	1330.5	1307.3	1303.0	1292.4
15°	1814.0	1683.1	1533.1	1448.7	1398.0	1355.8	1319.9	1296.7	1286.1	1279.7	1271.3
17.5°	1913.3	1746.5	1556.4	1448.7	1393.8	1345.3	1307.3	1286.1	1260.7	1264.9	1248.0
20°	2046.3	1814.0	1562.7	1421.3	1353.7	1307.3	1256.5	1245.9	1231.2	1218.5	1222.7
22.5°	2175.2	1862.6	1543.7	1387.5	1290.3	1235.4	1210.1	1197.4	1191.1	1180.5	1165.7
25°	2291.3	1915.5	1514.1	1326.3	1222.7	1182.6	1159.4	1157.3	1142.5	1142.5	1115.1
27.5°	2409.5	1934.5	1463.5	1254.4	1163.6	1140.4	1129.8	1125.6	1119.3	1104.5	1085.5
30°	2544.8	1940.8	1389.6	1180.5	1110.8	1085.5	1100.3	1110.8	1083.4	1055.9	1064.4
32.5°	2656.6	1926.0	1300.9	1110.8	1072.8	1060.2	1089.7	1100.3	1068.6	1039.1	1024.3
35°	2791.9	1890.1	1214.3	1055.9	1034.8	1060.2	1085.5	1085.5	1022.2	986.2	977.7
37.5°	2996.7	1849.9	1134.1	1009.5	994.7	1047.5	1081.3	1058.1	958.7	914.4	903.8
40°	3216.3	1824.6	1055.9	963.0	973.5	1026.4	1045.4	973.5	872.2	844.7	836.3
42.5°	3535.2	1773.9	986.2	922.8	954.5	996.8	996.8	868.0	830.0	815.2	813.1
45°	3932.2	1738.0	925.0	889.1	927.1	937.6	903.8	813.1	785.6	781.4	783.5
47.5°	4126.5	1668.4	861.6	849.0	876.4	878.5	789.8	768.7	745.5	739.2	734.9
50°	4096.9	1543.7	779.3	796.2	834.2	813.1	720.1	724.4	703.2	701.1	690.5
52.5°	3890.0	1347.4	696.9	737.1	779.3	718.0	663.1	658.9	658.9	631.4	620.9
55°	3448.6	1085.5	597.6	648.3	699.0	604.0	589.2	585.0	574.4	549.1	542.7
57.5°	2730.6	796.2	449.9	504.7	593.4	513.2	511.1	492.1	464.6	445.6	445.6
60°	1624.0	458.3	283.0	308.3	392.8	416.0	462.5	454.1	407.5	378.0	369.5
62.5°	741.3	236.5	179.5	183.8	211.2	270.3	363.2	420.2	354.8	304.1	299.9
65°	249.2	175.3	147.8	141.5	145.7	162.6	217.5	297.8	283.0	234.4	226.0
67.5°	152.1	156.3	139.4	128.8	128.8	126.7	124.6	135.1	166.9	162.6	164.8
70°	130.9	143.6	128.8	116.1	111.9	105.6	88.7	73.9	63.3	73.9	78.1
72.5°	105.6	114.0	109.8	99.2	88.7	80.2	63.3	48.6	35.9	31.7	31.7
75°	78.1	84.4	88.7	76.0	67.6	57.0	46.4	31.7	19.0	12.7	12.7
77.5°	57.0	63.3	65.4	59.1	50.7	40.1	29.6	21.1	10.6	4.2	4.2
80°	48.6	57.0	63.3	59.1	52.8	38.0	27.4	14.8	8.4	2.1	2.1
82.5°	46.4	57.0	63.3	57.0	50.7	35.9	27.4	16.9	6.3	2.1	2.1
85°	10.6	14.8	19.0	23.2	27.4	27.4	21.1	12.7	6.3	2.1	2.1
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	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)