

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: P528813

Luminaire Tested: **GALN-SA3D-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528813
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-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 12137 lumens
Efficiency: N/A
Efficacy: 66.0 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



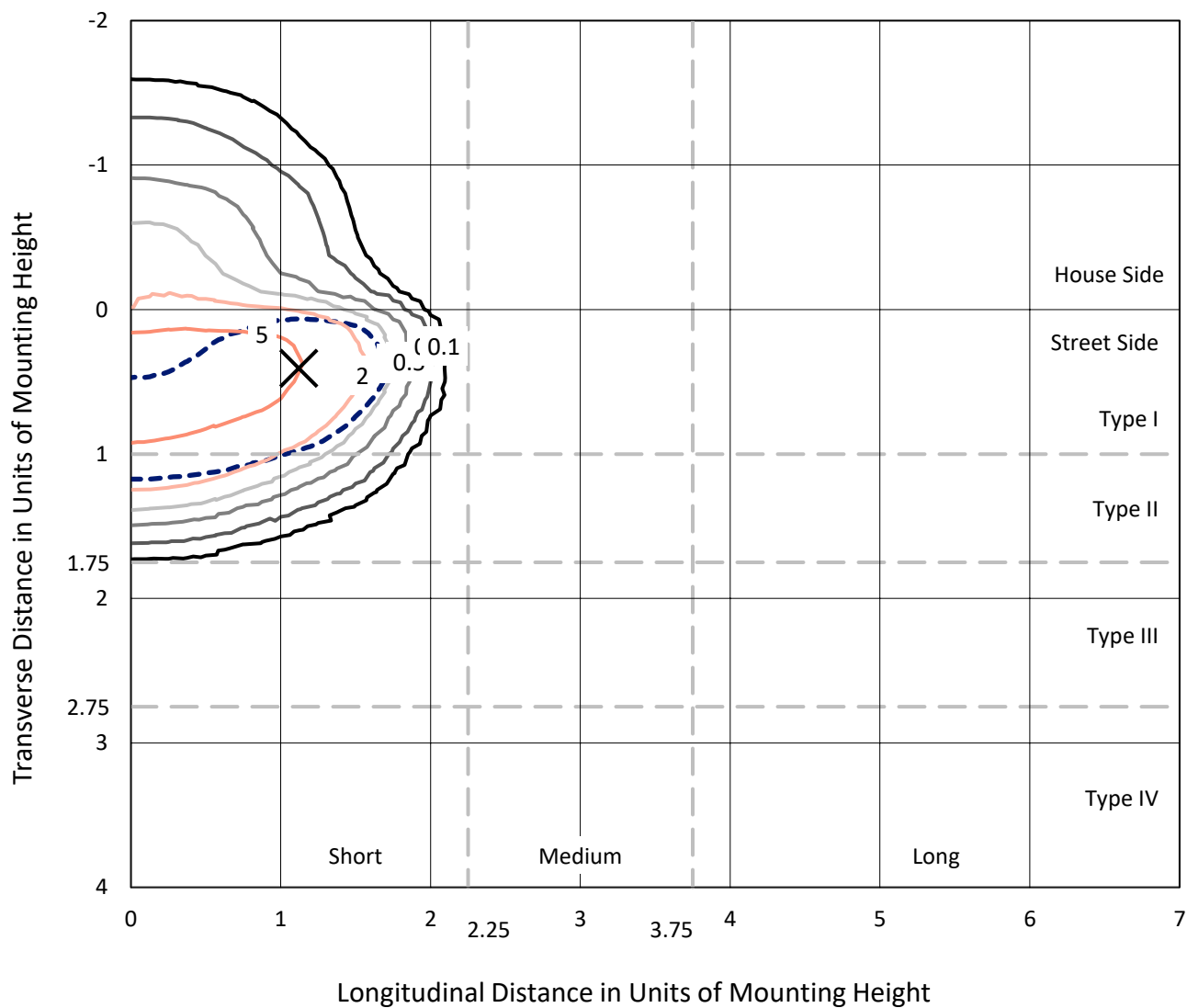
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



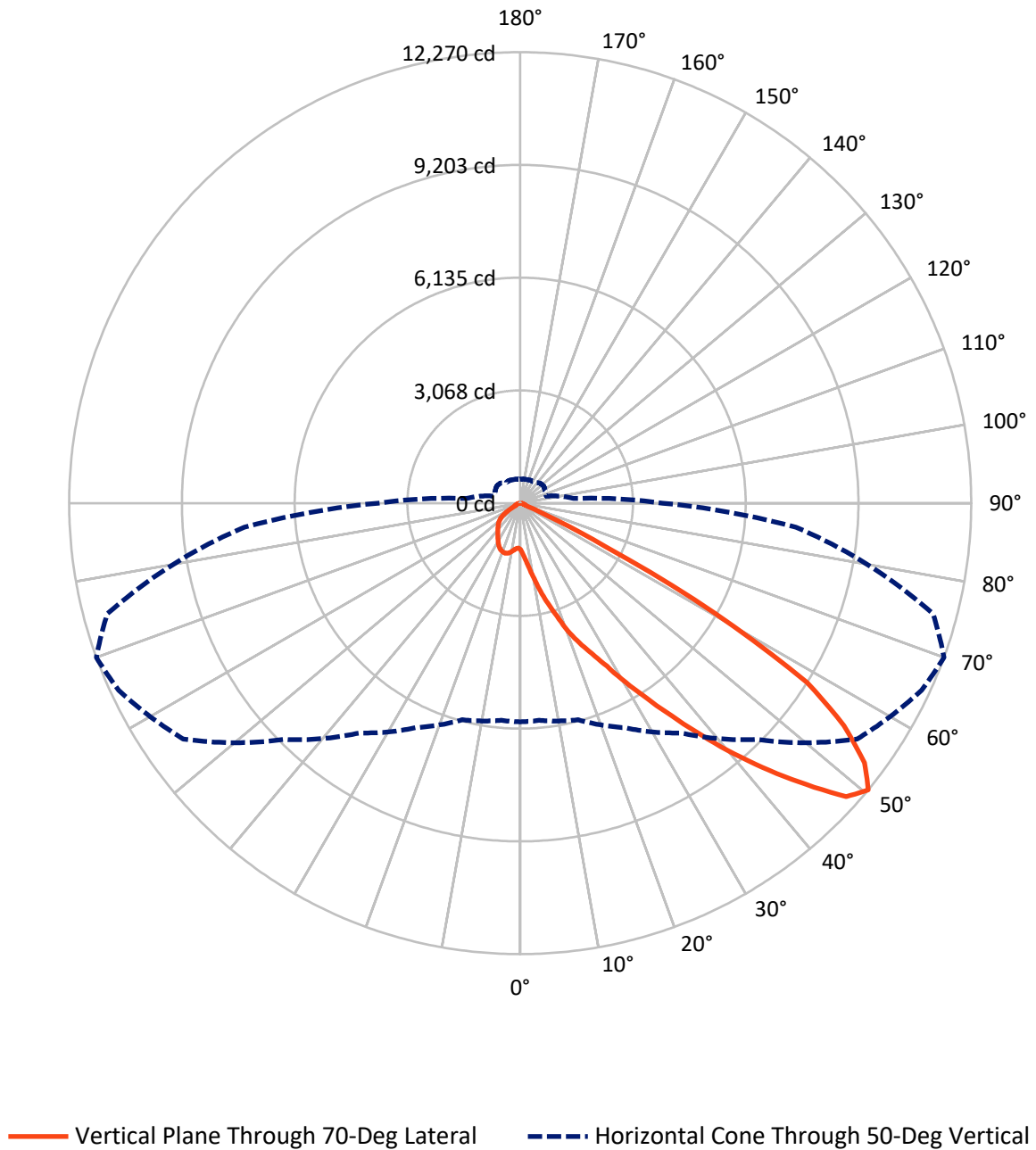
Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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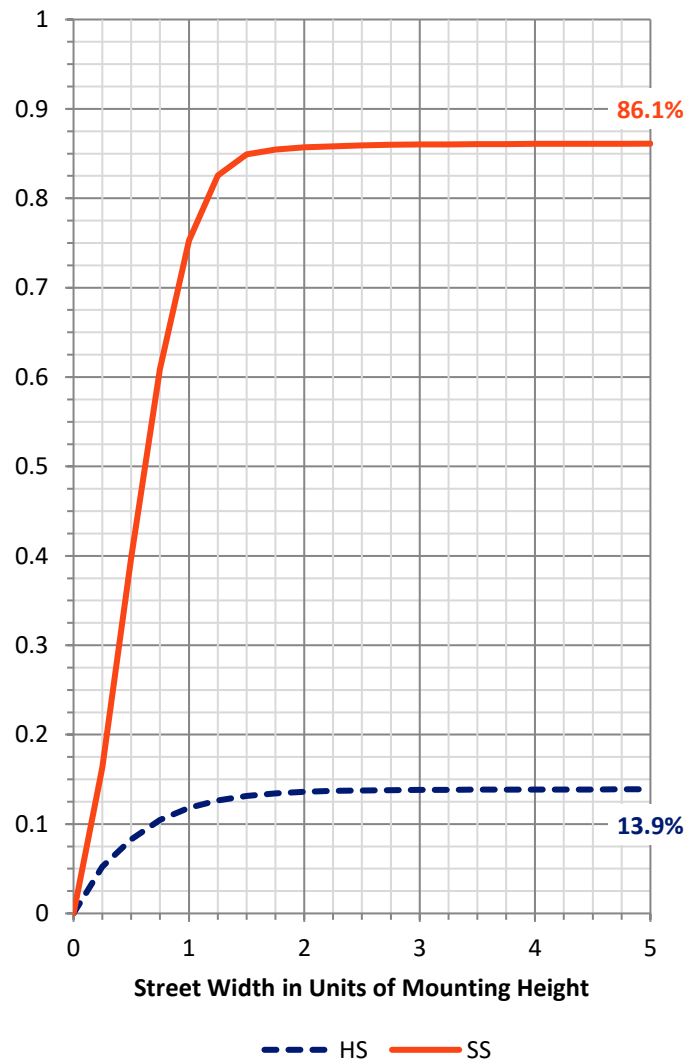
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1695.0	0.0	1695.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10442.0	0.0	10442.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	12137.0	0.0	12137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	1.3
10°-20°	707.1	5.8
20°-30°	1483.5	12.2
30°-40°	2557.0	21.1
40°-50°	3737.0	30.8
50°-60°	2910.5	24.0
60°-70°	493.1	4.1
70°-80°	67.7	0.6
80°-90°	17.6	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°	12137.0	100.0
0°-180°	12137.0	100.0

Coefficient of Utilization



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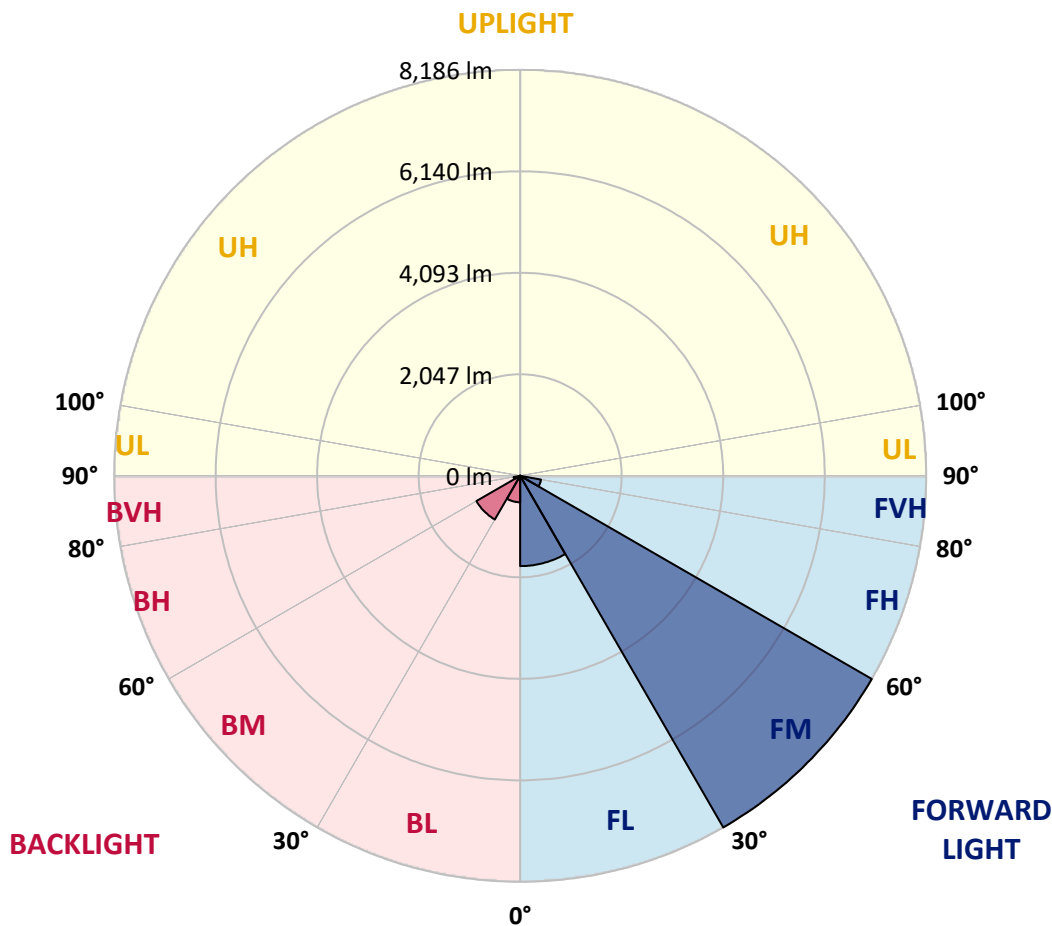
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1820.7	15.0			
FM	(30°-60°)	8186.2	67.4			
FH	(60°-80°)	427.0	3.5			G0/660
FVH	(80°-90°)	8.1	0.1			G0/10
BL	(0°-30°)	533.4	4.4	B2/1000		
BM	(30°-60°)	1018.3	8.4	B2/2500		
BH	(60°-80°)	133.9	1.1	B1/500		G1/500
BVH	(80°-90°)	9.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2
2.5°	1646.3	1634.3	1608.4	1560.5	1540.5	1492.6	1464.7	1410.8	1376.9	1339.0	1297.1
5°	2318.8	2256.9	2219.0	2165.1	2007.5	1909.7	1748.0	1610.4	1546.5	1476.7	1380.9
7.5°	3013.2	2973.3	2921.4	2805.6	2697.9	2494.4	2217.0	1913.7	1784.0	1664.2	1474.7
10°	3587.9	3476.1	3470.1	3384.3	3266.6	3023.2	2689.9	2312.8	2081.3	1905.7	1608.4
12.5°	3989.0	3887.2	3933.1	3923.1	3813.4	3589.9	3204.7	2705.9	2464.4	2191.0	1746.0
15°	4354.1	4312.2	4298.3	4286.3	4242.4	4076.8	3731.6	3184.8	2835.6	2506.3	1901.7
17.5°	4711.3	4603.6	4655.5	4665.4	4661.4	4511.8	4188.5	3639.8	3228.7	2839.6	2065.3
20°	5028.6	5038.6	4968.8	4954.8	4942.8	4936.8	4621.5	4090.7	3711.6	3188.8	2278.8
22.5°	5435.7	5365.9	5427.7	5387.8	5310.0	5262.1	5020.6	4489.8	4130.6	3609.8	2496.3
25°	5916.6	5972.5	5826.8	5810.8	5725.0	5559.4	5341.9	4936.8	4533.7	4000.9	2731.8
27.5°	6509.3	6411.5	6373.6	6285.8	6130.1	6060.3	5804.9	5397.8	5020.6	4412.0	2959.3
30°	7018.1	6992.2	6802.6	6698.8	6563.1	6561.1	6204.0	6022.4	5655.2	5056.6	3272.6
32.5°	7433.2	7319.4	7249.6	7177.8	7068.0	7097.9	6796.6	6700.8	6331.7	5655.2	3641.8
35°	7710.5	7628.7	7586.8	7477.1	7445.1	7578.8	7453.1	7413.2	7109.9	6497.3	4074.8
37.5°	7798.3	7824.3	7816.3	7678.6	7746.5	8107.6	8269.3	8165.5	8005.9	7385.3	4543.7
40°	7876.2	7894.1	7854.2	8015.9	8209.4	8620.5	9205.2	9033.6	8973.7	8285.2	5196.2
42.5°	7920.1	7906.1	7906.1	8185.5	8478.8	9304.9	10109.1	9995.4	9949.5	9243.1	5950.5
45°	7730.5	7594.8	7740.5	8119.6	8710.3	9642.2	10831.5	10989.1	10923.3	10382.5	6832.5
47.5°	7022.1	7105.9	7187.7	7694.6	8428.9	9538.4	11274.5	11811.3	11933.0	11340.3	7411.2
50°	5950.5	5932.6	6102.2	6740.7	7632.7	9091.4	11188.7	12048.7	12270.2	11627.7	7532.9
52.5°	4328.2	4459.9	4643.5	5278.1	6335.7	7934.0	10081.2	11436.1	11731.4	11274.5	7453.1
55°	2520.3	2374.6	2787.7	3324.5	4322.2	5984.5	8522.7	10137.1	10683.8	10631.9	7050.0
57.5°	1009.7	977.8	1119.5	1508.6	2254.9	3709.6	6198.0	8329.1	9205.2	9738.0	6196.0
60°	443.0	433.0	508.8	614.6	921.9	1710.1	3390.3	5180.3	6094.2	6804.6	4264.3
62.5°	319.3	315.3	353.2	391.1	486.9	744.3	1424.8	2087.3	2602.1	3142.9	1909.7
65°	257.4	267.4	293.3	313.3	359.2	413.1	502.9	580.7	712.4	738.3	421.0
67.5°	209.5	217.5	241.5	263.4	271.4	223.5	231.5	203.5	203.5	181.6	145.7
70°	153.7	155.6	183.6	209.5	167.6	89.8	157.6	157.6	141.7	135.7	123.7
72.5°	113.7	115.7	137.7	129.7	65.9	55.9	115.7	127.7	115.7	109.8	99.8
75°	83.8	85.8	71.8	29.9	27.9	35.9	67.8	87.8	83.8	81.8	75.8
77.5°	16.0	12.0	10.0	14.0	20.0	29.9	43.9	53.9	55.9	59.9	55.9
80°	2.0	2.0	6.0	12.0	22.0	31.9	45.9	51.9	53.9	55.9	51.9
82.5°	0.0	2.0	6.0	12.0	22.0	29.9	39.9	45.9	49.9	51.9	49.9
85°	0.0	2.0	4.0	10.0	18.0	22.0	20.0	14.0	12.0	14.0	10.0
87.5°	0.0	0.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2
2.5°	1273.1	1265.1	1237.2	1207.3	1181.3	1193.3	1181.3	1171.3	1175.3	1171.3	1167.4
5°	1343.0	1307.0	1247.2	1221.2	1199.3	1197.3	1191.3	1189.3	1191.3	1191.3	1173.3
7.5°	1408.8	1350.9	1287.1	1259.1	1233.2	1235.2	1221.2	1221.2	1219.2	1209.3	1205.3
10°	1508.6	1430.8	1348.9	1299.1	1267.1	1261.1	1247.2	1233.2	1233.2	1233.2	1213.3
12.5°	1618.3	1520.6	1408.8	1350.9	1313.0	1283.1	1261.1	1257.2	1235.2	1231.2	1221.2
15°	1714.1	1590.4	1448.7	1368.9	1321.0	1281.1	1247.2	1225.2	1215.2	1209.3	1201.3
17.5°	1807.9	1650.3	1470.7	1368.9	1317.0	1271.1	1235.2	1215.2	1191.3	1195.3	1179.3
20°	1933.6	1714.1	1476.7	1343.0	1279.1	1235.2	1187.3	1177.3	1163.4	1151.4	1155.4
22.5°	2055.3	1760.0	1458.7	1311.0	1219.2	1167.4	1143.4	1131.4	1125.5	1115.5	1101.5
25°	2165.1	1809.9	1430.8	1253.2	1155.4	1117.5	1095.5	1093.5	1079.6	1079.6	1053.6
27.5°	2276.8	1827.9	1382.9	1185.3	1099.5	1077.6	1067.6	1063.6	1057.6	1043.6	1025.7
30°	2404.6	1833.8	1313.0	1115.5	1049.6	1025.7	1039.6	1049.6	1023.7	997.7	1005.7
32.5°	2510.3	1819.9	1229.2	1049.6	1013.7	1001.7	1029.7	1039.6	1009.7	981.8	967.8
35°	2638.0	1786.0	1147.4	997.7	977.8	1001.7	1025.7	1025.7	965.8	931.9	923.9
37.5°	2831.6	1748.0	1071.6	953.8	939.9	989.8	1021.7	999.7	905.9	864.0	854.1
40°	3039.1	1724.1	997.7	909.9	919.9	969.8	987.8	919.9	824.1	798.2	790.2
42.5°	3340.4	1676.2	931.9	872.0	902.0	941.9	941.9	820.1	784.2	770.3	768.3
45°	3715.6	1642.3	874.0	840.1	876.0	886.0	854.1	768.3	742.3	738.3	740.3
47.5°	3899.2	1576.4	814.2	802.2	828.1	830.1	746.3	726.4	704.4	698.4	694.4
50°	3871.2	1458.7	736.3	752.3	788.2	768.3	680.5	684.5	664.5	662.5	652.5
52.5°	3675.7	1273.1	658.5	696.4	736.3	678.5	626.6	622.6	622.6	596.6	586.7
55°	3258.6	1025.7	564.7	612.6	660.5	570.7	556.7	552.7	542.8	518.8	512.8
57.5°	2580.2	752.3	425.0	476.9	560.7	484.9	482.9	464.9	439.0	421.0	421.0
60°	1534.5	433.0	267.4	291.3	371.2	393.1	437.0	429.0	385.1	357.2	349.2
62.5°	700.4	223.5	169.6	173.6	199.5	255.4	343.2	397.1	335.2	287.3	283.4
65°	235.5	165.6	139.7	133.7	137.7	153.7	205.5	281.4	267.4	221.5	213.5
67.5°	143.7	147.7	131.7	121.7	121.7	119.7	117.7	127.7	157.6	153.7	155.6
70°	123.7	135.7	121.7	109.8	105.8	99.8	83.8	69.8	59.9	69.8	73.8
72.5°	99.8	107.8	103.8	93.8	83.8	75.8	59.9	45.9	33.9	29.9	29.9
75°	73.8	79.8	83.8	71.8	63.9	53.9	43.9	29.9	18.0	12.0	12.0
77.5°	53.9	59.9	61.9	55.9	47.9	37.9	27.9	20.0	10.0	4.0	4.0
80°	45.9	53.9	59.9	55.9	49.9	35.9	25.9	14.0	8.0	2.0	2.0
82.5°	43.9	53.9	59.9	53.9	47.9	33.9	25.9	16.0	6.0	2.0	2.0
85°	10.0	14.0	18.0	22.0	25.9	25.9	20.0	12.0	6.0	2.0	2.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	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)