

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: P647346

Luminaire Tested: **GALN-SA3D-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647346
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-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 11958.8 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

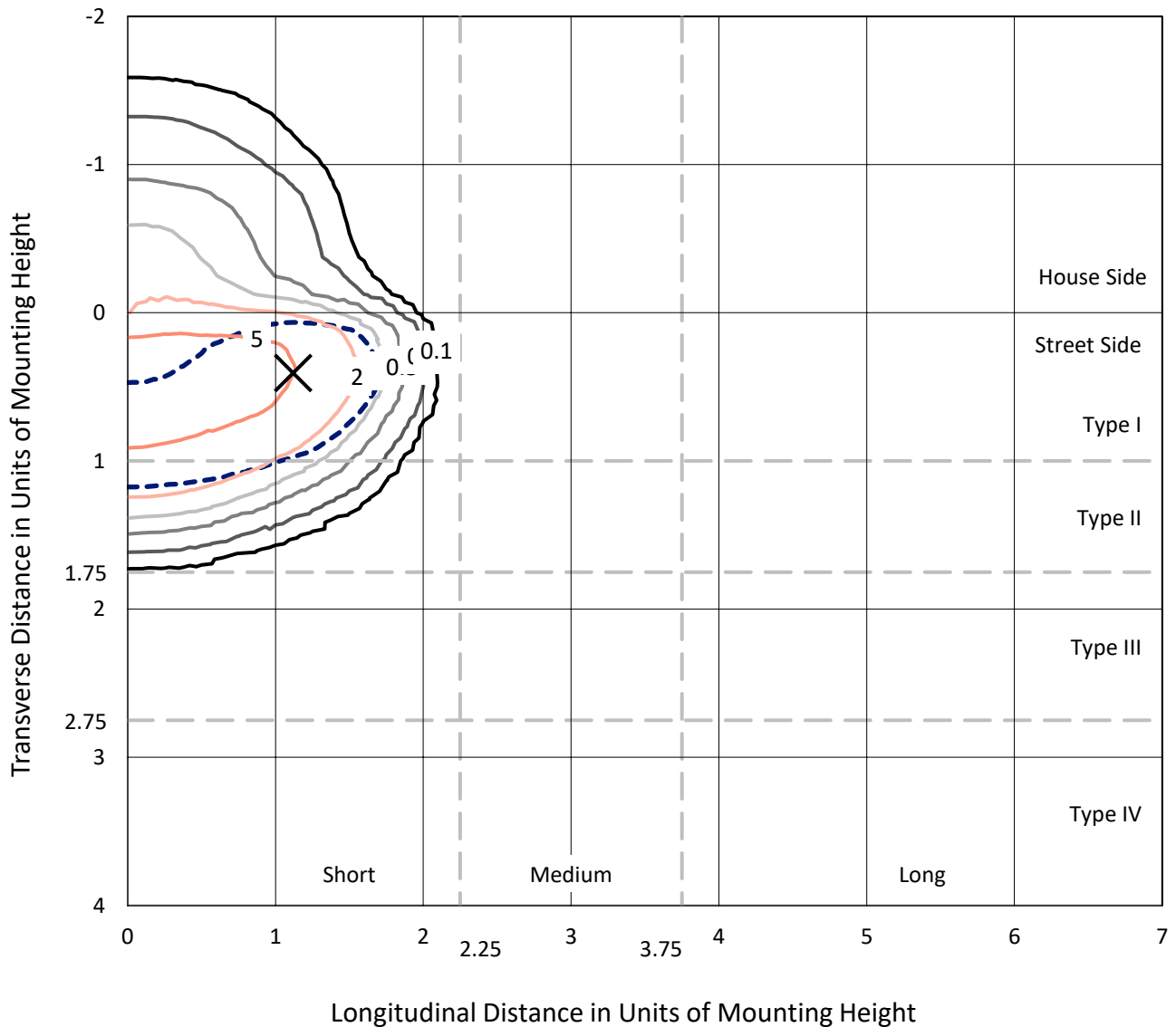
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

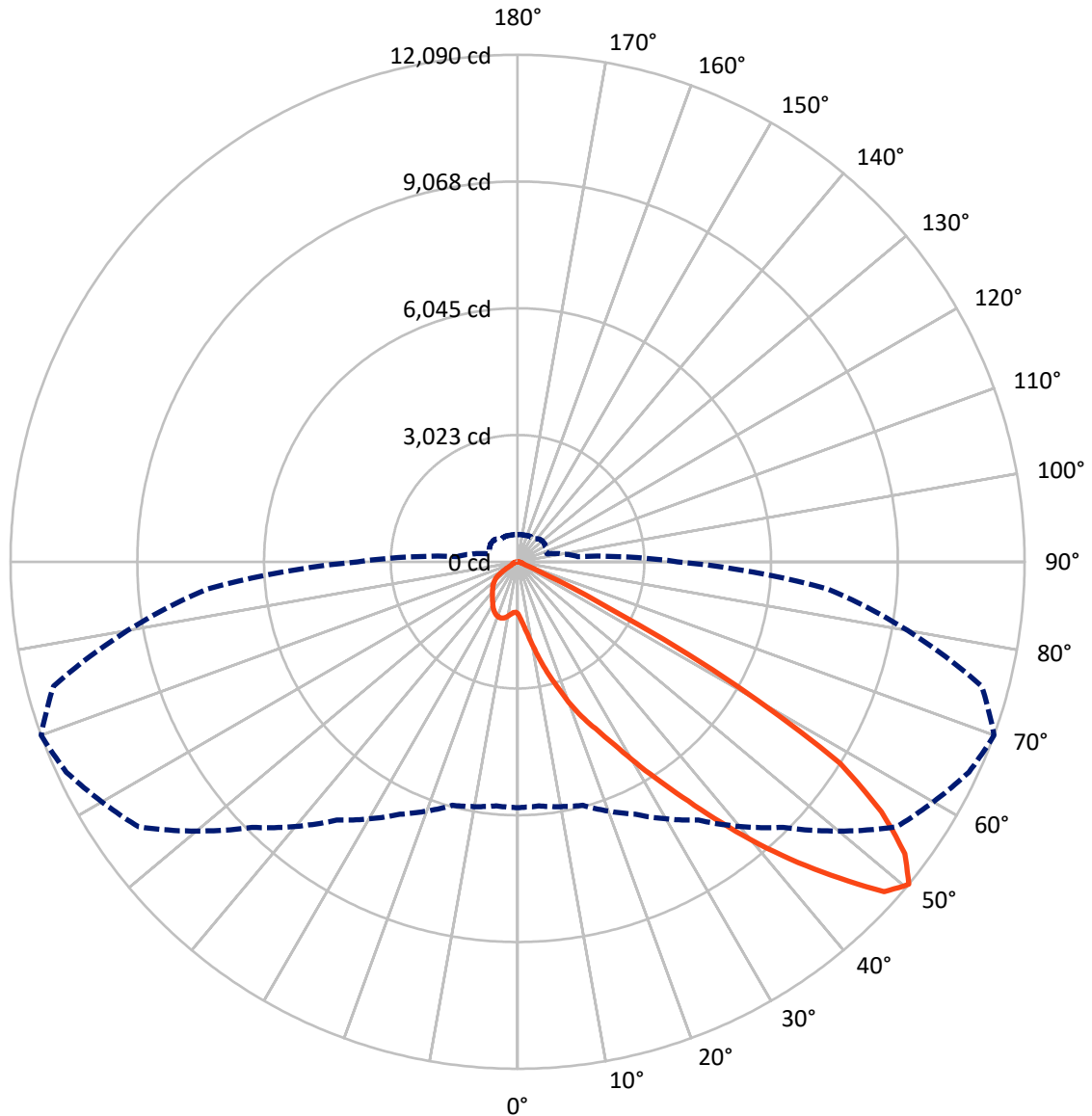
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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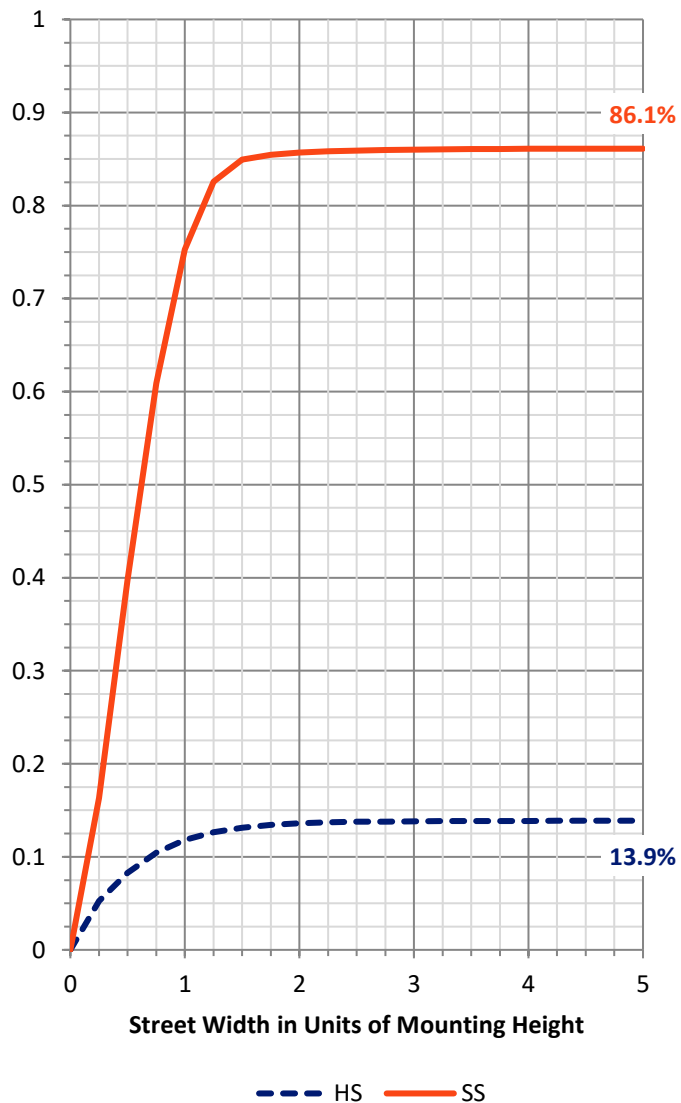
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1670.1	0.0	1670.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10288.6	0.0	10288.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	11958.8	0.0	11958.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	1.3
10°-20°	696.8	5.8
20°-30°	1461.7	12.2
30°-40°	2519.4	21.1
40°-50°	3682.1	30.8
50°-60°	2867.8	24.0
60°-70°	485.9	4.1
70°-80°	66.8	0.6
80°-90°	17.3	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°	11958.8	100.0
0°-180°	11958.8	100.0

Coefficient of Utilization



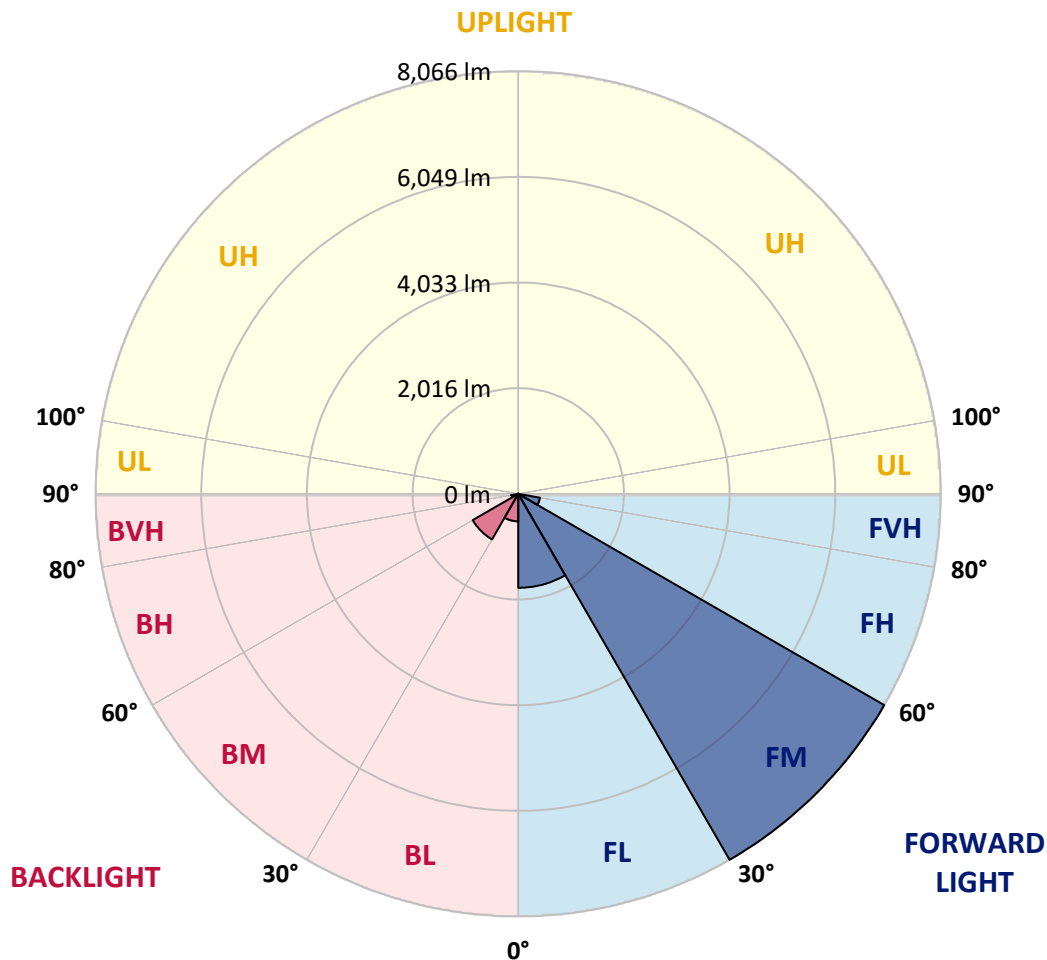
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1794.0	15.0			
FM (30°-60°)	8066.0	67.4			
FH (60°-80°)	420.7	3.5			G0/660
FVH (80°-90°)	8.0	0.1			G0/10
BL (0°-30°)	525.6	4.4	B2/1000		
BM (30°-60°)	1003.4	8.4	B2/2500		
BH (60°-80°)	131.9	1.1	B1/500		G1/500
BVH (80°-90°)	9.3	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°	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7
2.5°	1622.1	1610.3	1584.7	1537.6	1517.9	1470.7	1443.1	1390.1	1356.6	1319.3	1278.0
5°	2284.7	2223.7	2186.4	2133.3	1977.9	1881.6	1722.4	1586.7	1523.8	1455.0	1360.6
7.5°	2968.9	2929.6	2878.5	2764.5	2658.3	2457.8	2184.4	1885.5	1757.8	1639.8	1453.0
10°	3535.2	3425.1	3419.2	3334.6	3218.6	2978.8	2650.4	2278.8	2050.8	1877.7	1584.7
12.5°	3930.4	3830.1	3875.3	3865.5	3757.4	3537.1	3157.7	2666.1	2428.2	2158.9	1720.4
15°	4290.2	4248.9	4235.2	4223.3	4180.1	4016.9	3676.7	3138.0	2793.9	2469.5	1873.8
17.5°	4642.2	4536.0	4587.1	4596.9	4593.0	4445.6	4127.0	3586.3	3181.3	2797.9	2035.0
20°	4954.7	4964.6	4895.8	4882.0	4870.3	4864.3	4553.7	4030.6	3657.1	3141.9	2245.4
22.5°	5355.9	5287.1	5348.0	5308.7	5232.0	5184.8	4946.9	4423.9	4070.0	3556.8	2459.7
25°	5829.7	5884.8	5741.3	5725.5	5641.0	5477.8	5263.5	4864.3	4467.2	3942.2	2691.7
27.5°	6413.7	6317.3	6280.0	6193.5	6040.1	5971.3	5719.6	5318.5	4946.9	4347.2	2915.8
30°	6915.1	6889.5	6702.7	6600.5	6466.8	6464.8	6112.9	5933.9	5572.1	4982.3	3224.6
32.5°	7324.0	7212.0	7143.2	7072.4	6964.2	6993.7	6696.8	6602.4	6238.7	5572.1	3588.3
35°	7597.3	7516.7	7475.4	7367.2	7335.8	7467.5	7343.7	7304.4	7005.5	6401.9	4014.9
37.5°	7683.8	7709.4	7701.5	7565.8	7632.7	7988.6	8147.8	8045.6	7888.3	7276.8	4477.0
40°	7760.5	7778.2	7738.9	7898.1	8088.9	8493.9	9070.0	8900.9	8841.9	8163.6	5120.0
42.5°	7803.8	7790.0	7790.0	8065.3	8354.3	9168.3	9960.6	9848.6	9803.4	9107.3	5863.1
45°	7616.9	7483.3	7626.8	8000.4	8582.4	9500.6	10672.4	10827.7	10762.9	10230.1	6732.2
47.5°	6919.0	7001.6	7082.2	7581.6	8305.1	9398.3	11108.9	11637.8	11757.8	11173.8	7302.4
50°	5863.1	5845.4	6012.6	6641.7	7520.6	8957.9	11024.3	11871.8	12090.0	11456.9	7422.3
52.5°	4264.6	4394.4	4575.3	5200.5	6242.6	7817.6	9933.1	11268.2	11559.2	11108.9	7343.7
55°	2483.3	2339.8	2746.8	3275.7	4258.7	5896.5	8397.5	9988.2	10526.9	10475.8	6946.5
57.5°	994.9	963.4	1103.0	1486.4	2221.8	3655.1	6106.9	8206.9	9070.0	9595.0	6105.0
60°	436.5	426.7	501.4	605.6	908.4	1685.0	3340.5	5104.2	6004.7	6704.7	4201.7
62.5°	314.6	310.7	348.0	385.4	479.7	733.4	1403.8	2056.6	2563.9	3096.8	1881.6
65°	253.6	263.5	289.0	308.7	353.9	407.0	495.5	572.1	702.0	727.5	414.8
67.5°	206.5	214.3	237.9	259.6	267.4	220.2	228.1	200.5	200.5	178.9	143.5
70°	151.4	153.4	180.9	206.5	165.1	88.5	155.3	155.3	139.6	133.7	121.9
72.5°	112.0	114.0	135.7	127.8	64.9	55.0	114.0	125.8	114.0	108.1	98.3
75°	82.6	84.6	70.8	29.5	27.6	35.4	66.9	86.5	82.6	80.6	74.7
77.5°	15.7	11.8	9.9	13.8	19.7	29.5	43.2	53.1	55.0	59.0	55.0
80°	2.0	2.0	5.9	11.8	21.6	31.5	45.3	51.1	53.1	55.0	51.1
82.5°	0.0	2.0	5.9	11.8	21.6	29.5	39.3	45.3	49.2	51.1	49.2
85°	0.0	2.0	3.9	9.9	17.7	21.6	19.7	13.8	11.8	13.8	9.9
87.5°	0.0	0.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7
2.5°	1254.4	1246.5	1219.1	1189.5	1164.0	1175.8	1164.0	1154.1	1158.1	1154.1	1150.2
5°	1323.3	1287.9	1228.8	1203.3	1181.7	1179.7	1173.8	1171.8	1173.8	1173.8	1156.1
7.5°	1388.1	1331.1	1268.1	1240.7	1215.1	1217.1	1203.3	1203.3	1201.4	1191.5	1187.6
10°	1486.4	1409.7	1329.1	1280.0	1248.5	1242.6	1228.8	1215.1	1215.1	1215.1	1195.4
12.5°	1594.6	1498.2	1388.1	1331.1	1293.8	1264.2	1242.6	1238.7	1217.1	1213.1	1203.3
15°	1688.9	1567.0	1427.4	1348.8	1301.6	1262.3	1228.8	1207.2	1197.4	1191.5	1183.7
17.5°	1781.3	1626.1	1449.1	1348.8	1297.7	1252.5	1217.1	1197.4	1173.8	1177.7	1162.0
20°	1905.2	1688.9	1455.0	1323.3	1260.3	1217.1	1169.9	1160.0	1146.3	1134.5	1138.4
22.5°	2025.2	1734.2	1437.3	1291.8	1201.4	1150.2	1126.7	1114.8	1109.0	1099.1	1085.3
25°	2133.3	1783.4	1409.7	1234.8	1138.4	1101.1	1079.4	1077.5	1063.7	1063.7	1038.2
27.5°	2243.4	1801.1	1362.6	1167.9	1083.4	1061.7	1051.9	1048.0	1042.1	1028.3	1010.6
30°	2369.3	1806.9	1293.8	1099.1	1034.2	1010.6	1024.4	1034.2	1008.7	983.1	991.0
32.5°	2473.4	1793.1	1211.1	1034.2	998.8	987.0	1014.5	1024.4	994.9	967.4	953.6
35°	2599.3	1759.7	1130.6	983.1	963.4	987.0	1010.6	1010.6	951.7	918.2	910.3
37.5°	2790.0	1722.4	1055.9	939.8	926.1	975.2	1006.7	985.1	892.6	851.4	841.5
40°	2994.5	1698.8	983.1	896.6	906.4	955.6	973.3	906.4	812.0	786.4	778.6
42.5°	3291.4	1651.6	918.2	859.2	888.7	928.0	928.0	808.1	772.7	759.0	757.0
45°	3661.0	1618.1	861.2	827.8	863.2	873.0	841.5	757.0	731.4	727.5	729.4
47.5°	3841.9	1553.3	802.2	790.4	816.0	817.9	735.3	715.7	694.1	688.2	684.3
50°	3814.4	1437.3	725.5	741.3	776.7	757.0	670.5	674.4	654.7	652.8	642.9
52.5°	3621.7	1254.4	648.9	686.2	725.5	668.5	617.4	613.5	613.5	587.9	578.1
55°	3210.8	1010.6	556.4	603.6	650.8	562.4	548.6	544.7	534.8	511.2	505.3
57.5°	2542.2	741.3	418.8	469.9	552.5	477.8	475.8	458.1	432.5	414.8	414.8
60°	1512.0	426.7	263.5	287.0	365.7	387.4	430.6	422.7	379.4	352.0	344.1
62.5°	690.1	220.2	167.1	171.1	196.6	251.7	338.2	391.3	330.3	283.1	279.2
65°	232.0	163.2	137.7	131.7	135.7	151.4	202.5	277.3	263.5	218.2	210.4
67.5°	141.6	145.5	129.7	120.0	120.0	118.0	116.0	125.8	155.3	151.4	153.4
70°	121.9	133.7	120.0	108.1	104.2	98.3	82.6	68.8	59.0	68.8	72.7
72.5°	98.3	106.2	102.3	92.4	82.6	74.7	59.0	45.3	33.4	29.5	29.5
75°	72.7	78.6	82.6	70.8	63.0	53.1	43.2	29.5	17.7	11.8	11.8
77.5°	53.1	59.0	60.9	55.0	47.2	37.3	27.6	19.7	9.9	3.9	3.9
80°	45.3	53.1	59.0	55.0	49.2	35.4	25.5	13.8	7.8	2.0	2.0
82.5°	43.2	53.1	59.0	53.1	47.2	33.4	25.5	15.7	5.9	2.0	2.0
85°	9.9	13.8	17.7	21.6	25.5	25.5	19.7	11.8	5.9	2.0	2.0
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	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)