

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: P650811

Luminaire Tested: **GALN-SA3C-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650811
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-SA3C-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA 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: 11673.1 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

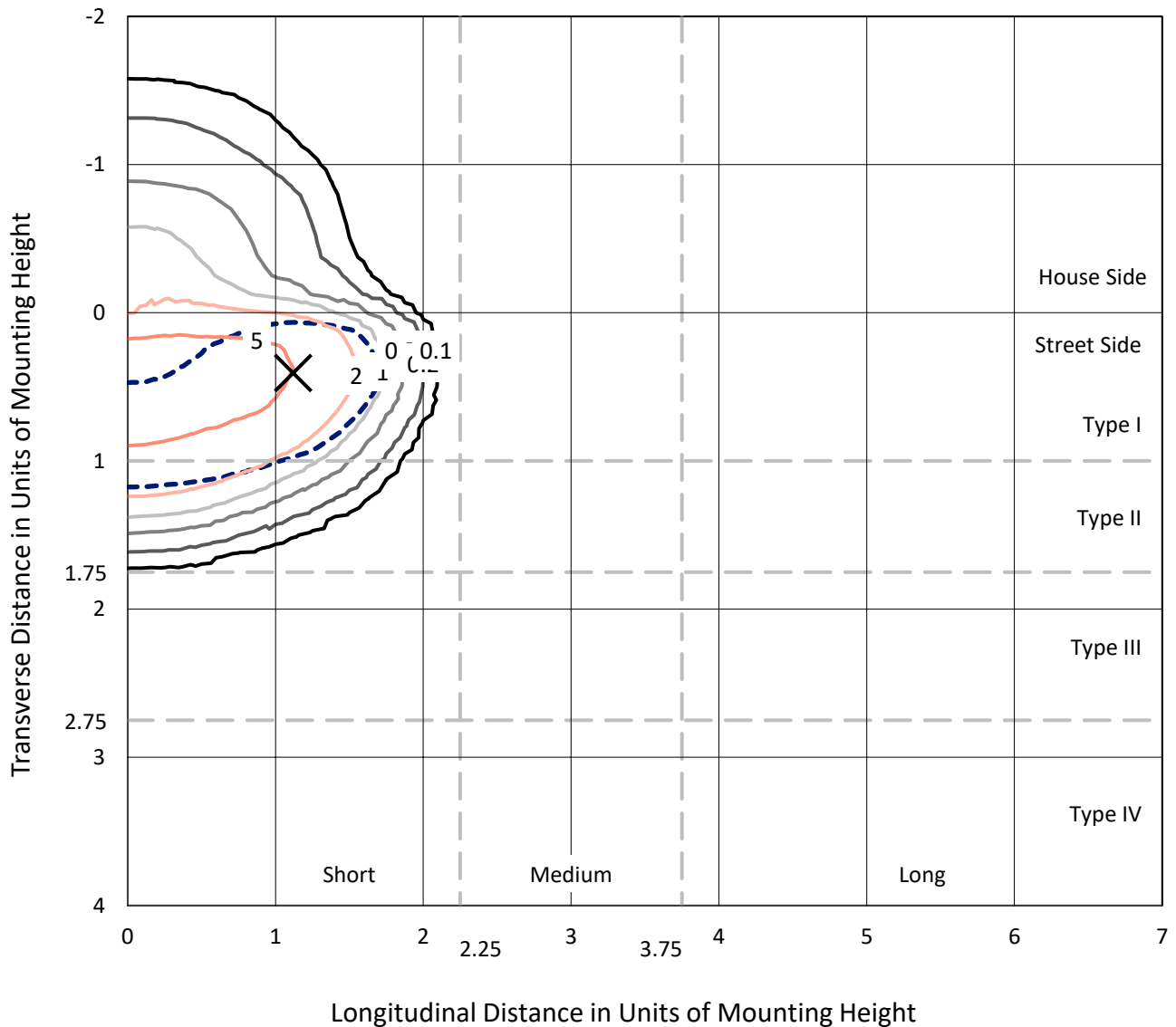
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

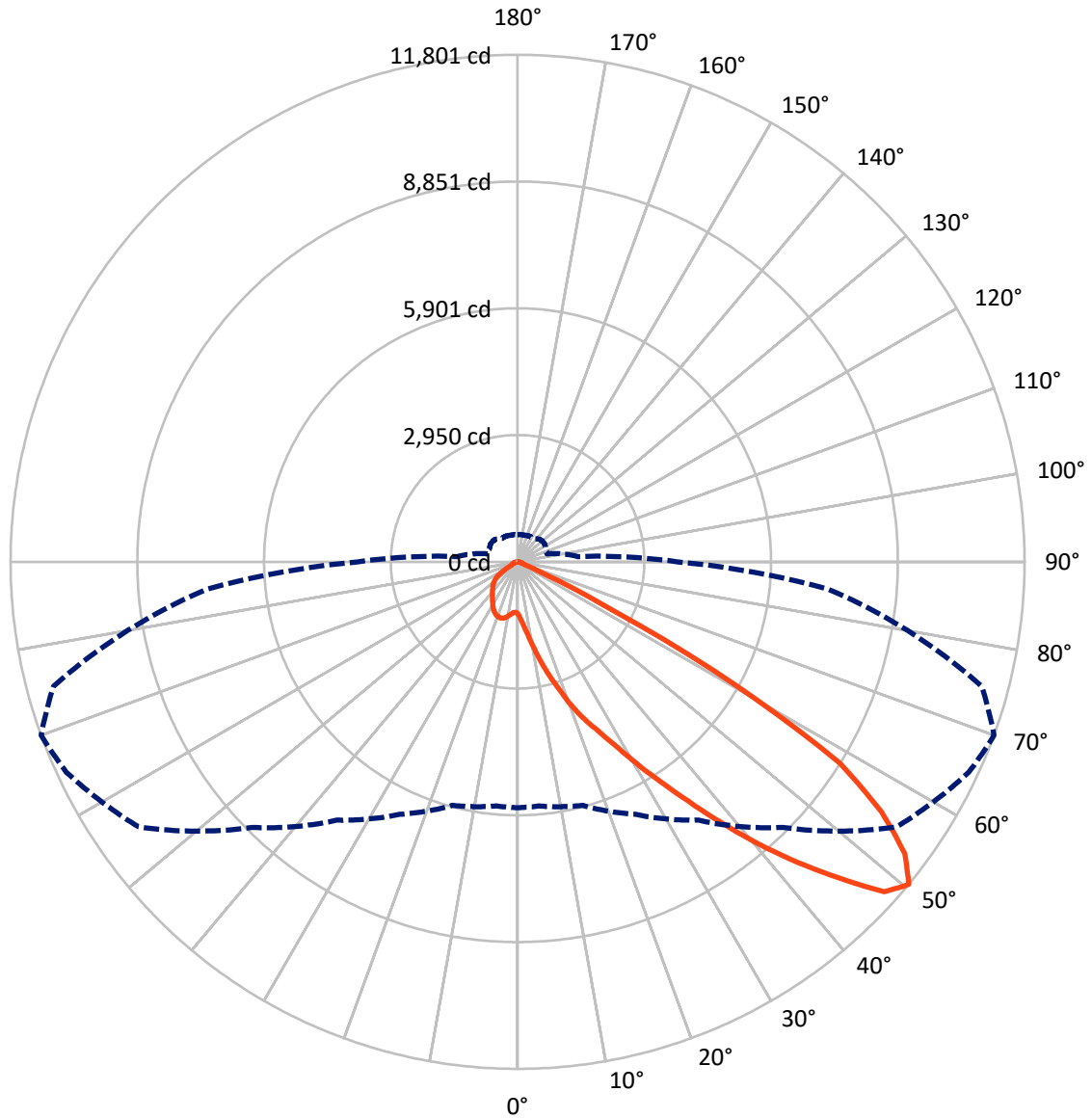
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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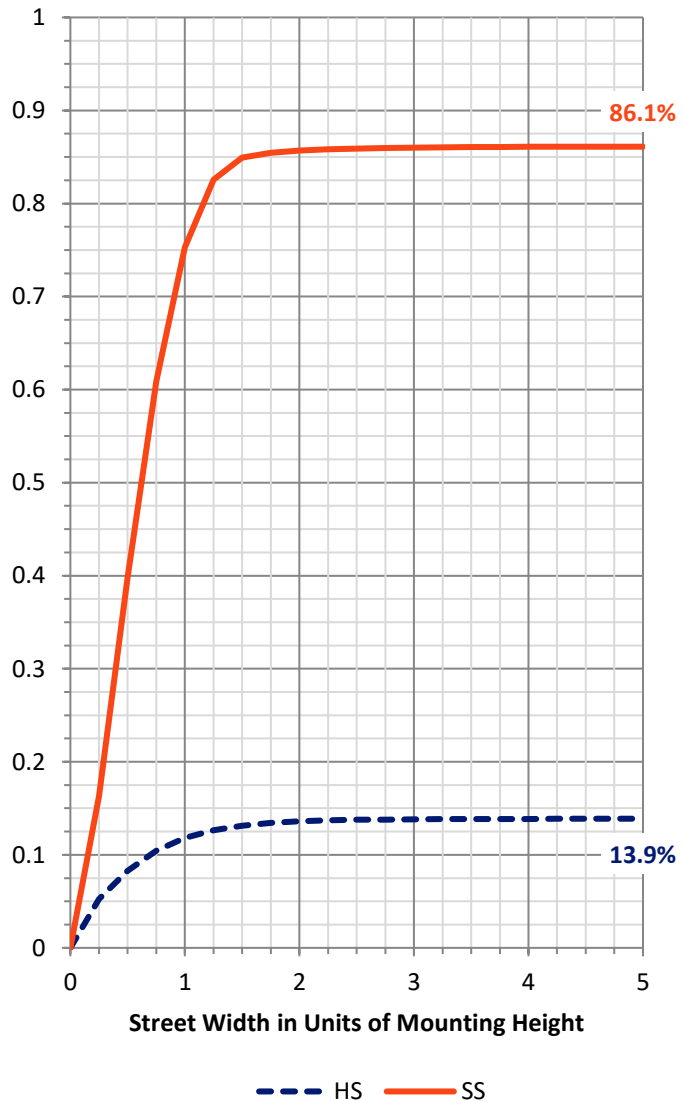
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1630.2	0.0	1630.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10042.9	0.0	10042.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	11673.1	0.0	11673.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.2	1.3
10°-20°	680.1	5.8
20°-30°	1426.8	12.2
30°-40°	2459.2	21.1
40°-50°	3594.2	30.8
50°-60°	2799.3	24.0
60°-70°	474.3	4.1
70°-80°	65.2	0.6
80°-90°	16.9	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°	11673.1	100.0
0°-180°	11673.1	100.0

Coefficient of Utilization

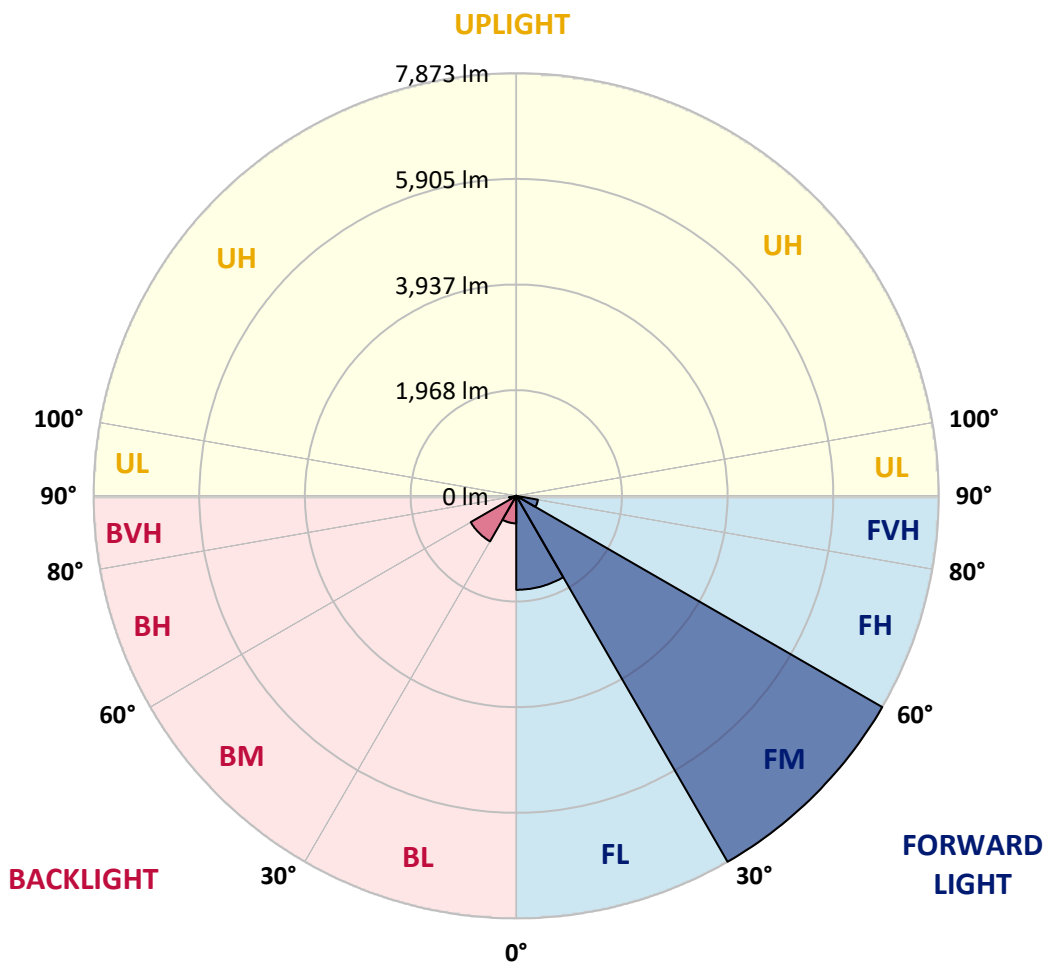


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1751.1	15.0			
FM	(30°-60°)	7873.3	67.4			
FH	(60°-80°)	410.7	3.5			G0/660
FVH	(80°-90°)	7.8	0.1			G0/10
BL	(0°-30°)	513.0	4.4	B2/1000		
BM	(30°-60°)	979.4	8.4	B1/1000		
BH	(60°-80°)	128.8	1.1	B1/500		G1/500
BVH	(80°-90°)	9.1	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°	1209.1	1209.1	1209.1	1209.1	1209.1	1209.1	1209.1	1209.1	1209.1	1209.1	1209.1
2.5°	1583.4	1571.8	1546.9	1500.8	1481.6	1435.6	1408.7	1356.9	1324.2	1287.8	1247.5
5°	2230.1	2170.6	2134.1	2082.3	1930.7	1836.7	1681.2	1548.8	1487.4	1420.2	1328.1
7.5°	2898.0	2859.7	2809.7	2698.4	2594.7	2399.0	2132.3	1840.5	1715.8	1600.6	1418.3
10°	3450.7	3343.2	3337.5	3255.0	3141.7	2907.6	2587.1	2224.4	2001.7	1832.9	1546.9
12.5°	3836.5	3738.6	3782.7	3773.1	3667.6	3452.6	3082.3	2602.5	2370.2	2107.3	1679.3
15°	4187.7	4147.4	4133.9	4122.5	4080.2	3920.9	3588.9	3063.1	2727.2	2410.6	1829.0
17.5°	4531.2	4427.6	4477.5	4487.1	4483.3	4339.3	4028.4	3500.7	3105.3	2731.1	1986.4
20°	4836.4	4846.0	4778.8	4765.4	4753.9	4748.1	4444.9	3934.4	3569.7	3066.9	2191.7
22.5°	5227.9	5160.7	5220.3	5181.8	5107.0	5061.0	4828.8	4318.2	3972.8	3471.8	2401.0
25°	5690.5	5744.2	5604.1	5588.7	5506.2	5346.9	5137.8	4748.1	4360.4	3848.0	2627.4
27.5°	6260.5	6166.4	6130.0	6045.5	5895.8	5828.6	5583.0	5191.5	4828.8	4243.3	2846.2
30°	6749.9	6724.9	6542.6	6442.8	6312.3	6310.4	5966.8	5792.1	5439.0	4863.3	3147.5
32.5°	7149.1	7039.7	6972.5	6903.4	6797.8	6826.6	6536.8	6444.7	6089.7	5439.0	3502.6
35°	7415.9	7337.1	7296.9	7191.3	7160.5	7289.1	7168.3	7129.8	6838.2	6249.0	3919.1
37.5°	7500.3	7525.2	7517.5	7385.1	7450.3	7797.8	7953.2	7853.4	7699.9	7103.0	4370.0
40°	7575.1	7592.4	7554.0	7709.4	7895.6	8291.0	8853.3	8688.3	8630.7	7968.6	4997.6
42.5°	7617.4	7603.9	7603.9	7872.6	8154.8	8949.2	9722.7	9613.3	9569.2	8889.8	5723.1
45°	7435.0	7304.5	7444.6	7809.3	8377.4	9273.6	10417.5	10569.1	10505.8	9985.6	6571.4
47.5°	6753.7	6834.3	6913.0	7400.5	8106.7	9173.8	10843.5	11359.8	11476.9	10906.8	7128.0
50°	5723.1	5705.8	5868.9	6483.1	7341.0	8743.9	10761.0	11588.1	11801.2	11183.2	7245.0
52.5°	4162.8	4289.4	4466.0	5076.3	6093.5	7630.8	9695.8	10999.0	11283.0	10843.5	7168.3
55°	2423.9	2283.8	2681.1	3197.4	4157.0	5755.7	8197.0	9749.5	10275.4	10225.6	6780.6
57.5°	971.1	940.4	1076.6	1450.9	2168.7	3567.8	5961.1	8010.8	8853.3	9365.7	5959.2
60°	426.1	416.5	489.4	591.1	886.7	1644.7	3260.7	4982.3	5861.3	6544.5	4101.4
62.5°	307.0	303.3	339.7	376.2	468.3	715.9	1370.3	2007.5	2502.6	3022.7	1836.7
65°	247.6	257.2	282.2	301.3	345.5	397.3	483.7	558.5	685.2	710.1	404.9
67.5°	201.5	209.2	232.2	253.3	261.0	215.0	222.6	195.8	195.8	174.7	140.1
70°	147.8	149.7	176.5	201.5	161.2	86.4	151.6	151.6	136.2	130.5	119.0
72.5°	109.4	111.3	132.5	124.7	63.3	53.7	111.3	122.9	111.3	105.5	96.0
75°	80.6	82.5	69.1	28.8	26.8	34.6	65.3	84.4	80.6	78.7	72.9
77.5°	15.4	11.5	9.6	13.5	19.2	28.8	42.2	51.8	53.7	57.6	53.7
80°	1.9	1.9	5.7	11.5	21.1	30.7	44.2	49.9	51.8	53.7	49.9
82.5°	0.0	1.9	5.7	11.5	21.1	28.8	38.3	44.2	48.0	49.9	48.0
85°	0.0	1.9	3.9	9.6	17.2	21.1	19.2	13.5	11.5	13.5	9.6
87.5°	0.0	0.0	1.9	1.9	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°	1209.1	1209.1	1209.1	1209.1	1209.1	1209.1	1209.1	1209.1	1209.1	1209.1	1209.1
2.5°	1224.5	1216.8	1189.9	1161.1	1136.2	1147.7	1136.2	1126.6	1130.4	1126.6	1122.7
5°	1291.6	1257.0	1199.5	1174.5	1153.4	1151.5	1145.8	1143.8	1145.8	1145.8	1128.5
7.5°	1354.9	1299.3	1237.9	1211.0	1186.1	1188.0	1174.5	1174.5	1172.6	1163.0	1159.2
10°	1450.9	1376.0	1297.4	1249.4	1218.7	1213.0	1199.5	1186.1	1186.1	1186.1	1166.9
12.5°	1556.4	1462.4	1354.9	1299.3	1262.8	1234.1	1213.0	1209.1	1188.0	1184.1	1174.5
15°	1648.6	1529.6	1393.4	1316.6	1270.5	1232.1	1199.5	1178.4	1168.8	1163.0	1155.4
17.5°	1738.8	1587.2	1414.5	1316.6	1266.7	1222.6	1188.0	1168.8	1145.8	1149.6	1134.3
20°	1859.7	1648.6	1420.2	1291.6	1230.2	1188.0	1141.9	1132.3	1118.9	1107.3	1111.2
22.5°	1976.8	1692.8	1403.0	1260.9	1172.6	1122.7	1099.7	1088.2	1082.5	1072.9	1059.4
25°	2082.3	1740.7	1376.0	1205.2	1111.2	1074.8	1053.6	1051.8	1038.3	1038.3	1013.3
27.5°	2189.8	1758.0	1330.0	1140.0	1057.5	1036.4	1026.8	1022.9	1017.2	1003.7	986.5
30°	2312.7	1763.7	1262.8	1072.9	1009.5	986.5	999.9	1009.5	984.6	959.6	967.3
32.5°	2414.3	1750.3	1182.2	1009.5	975.0	963.4	990.3	999.9	971.1	944.3	930.8
35°	2537.2	1717.7	1103.6	959.6	940.4	963.4	986.5	986.5	928.9	896.3	888.6
37.5°	2723.3	1681.2	1030.6	917.4	903.9	951.9	982.6	961.5	871.4	831.0	821.4
40°	2923.0	1658.2	959.6	875.1	884.7	932.8	950.0	884.7	792.6	767.7	760.0
42.5°	3212.8	1612.1	896.3	838.7	867.5	905.8	905.8	788.8	754.2	740.8	738.9
45°	3573.6	1579.5	840.6	807.9	842.5	852.1	821.4	738.9	713.9	710.1	712.0
47.5°	3750.1	1516.2	783.1	771.5	796.5	798.4	717.8	698.6	677.5	671.7	667.9
50°	3723.3	1403.0	708.2	723.5	758.1	738.9	654.5	658.3	639.1	637.1	627.6
52.5°	3535.1	1224.5	633.4	669.8	708.2	652.5	602.7	598.8	598.8	573.8	564.2
55°	3134.1	986.5	543.1	589.2	635.3	548.9	535.5	531.6	522.0	499.0	493.2
57.5°	2481.5	723.5	408.8	458.7	539.3	466.3	464.5	447.2	422.3	404.9	404.9
60°	1475.9	416.5	257.2	280.2	357.0	378.1	420.3	412.6	370.4	343.5	335.9
62.5°	673.6	215.0	163.2	166.9	191.9	245.7	330.1	381.9	322.4	276.4	272.6
65°	226.5	159.3	134.3	128.6	132.5	147.8	197.7	270.6	257.2	213.0	205.4
67.5°	138.2	142.0	126.7	117.1	117.1	115.1	113.2	122.9	151.6	147.8	149.7
70°	119.0	130.5	117.1	105.5	101.7	96.0	80.6	67.2	57.6	67.2	71.0
72.5°	96.0	103.6	99.8	90.2	80.6	72.9	57.6	44.2	32.6	28.8	28.8
75°	71.0	76.8	80.6	69.1	61.4	51.8	42.2	28.8	17.2	11.5	11.5
77.5°	51.8	57.6	59.5	53.7	46.1	36.5	26.8	19.2	9.6	3.9	3.9
80°	44.2	51.8	57.6	53.7	48.0	34.6	25.0	13.5	7.7	1.9	1.9
82.5°	42.2	51.8	57.6	51.8	46.1	32.6	25.0	15.4	5.7	1.9	1.9
85°	9.6	13.5	17.2	21.1	25.0	25.0	19.2	11.5	5.7	1.9	1.9
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	1.9	1.9	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)