

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: P528293

Luminaire Tested: **GALN-SA3B-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528293
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-SA3B-760-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 800mA 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: 11234 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G1

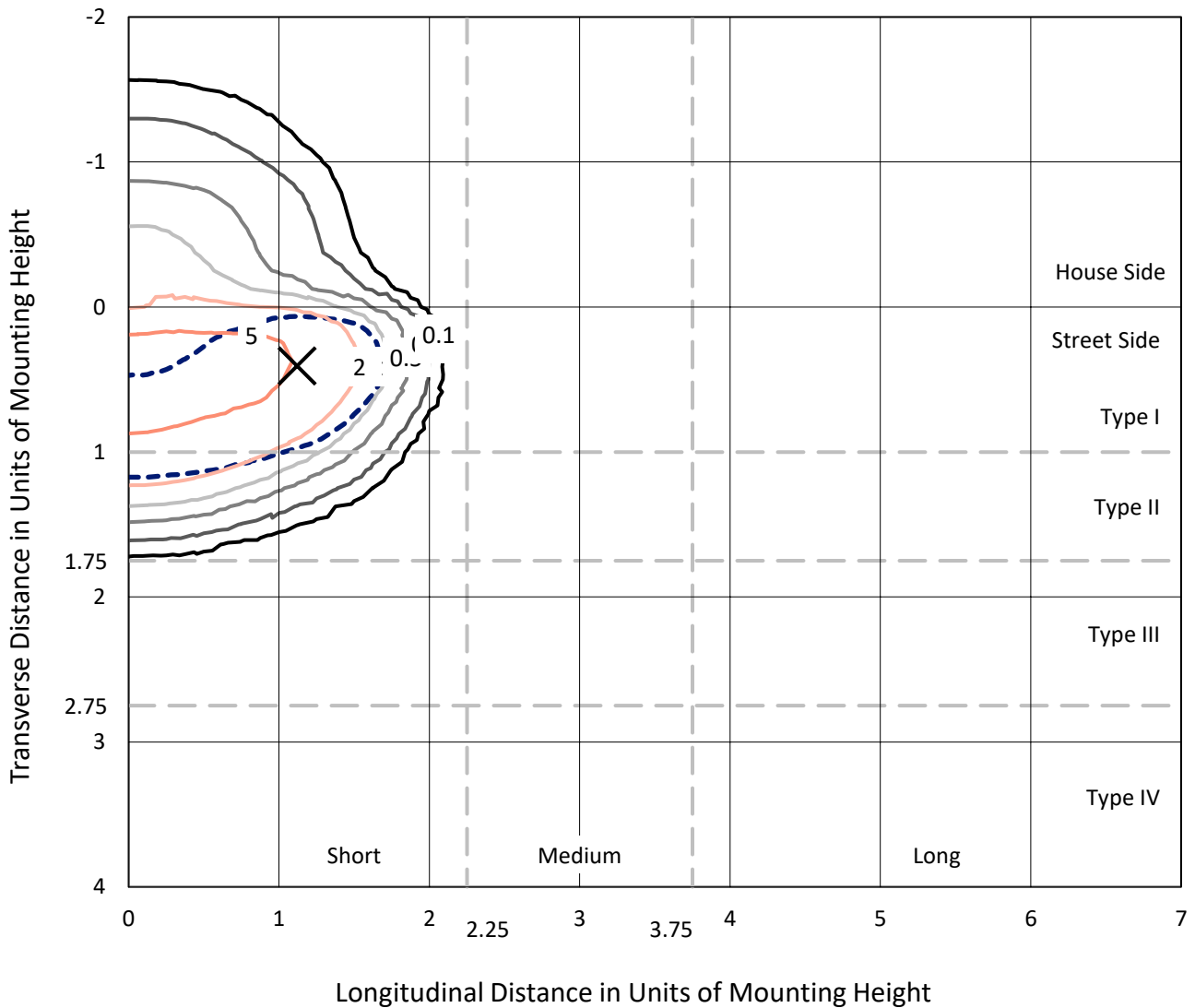
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

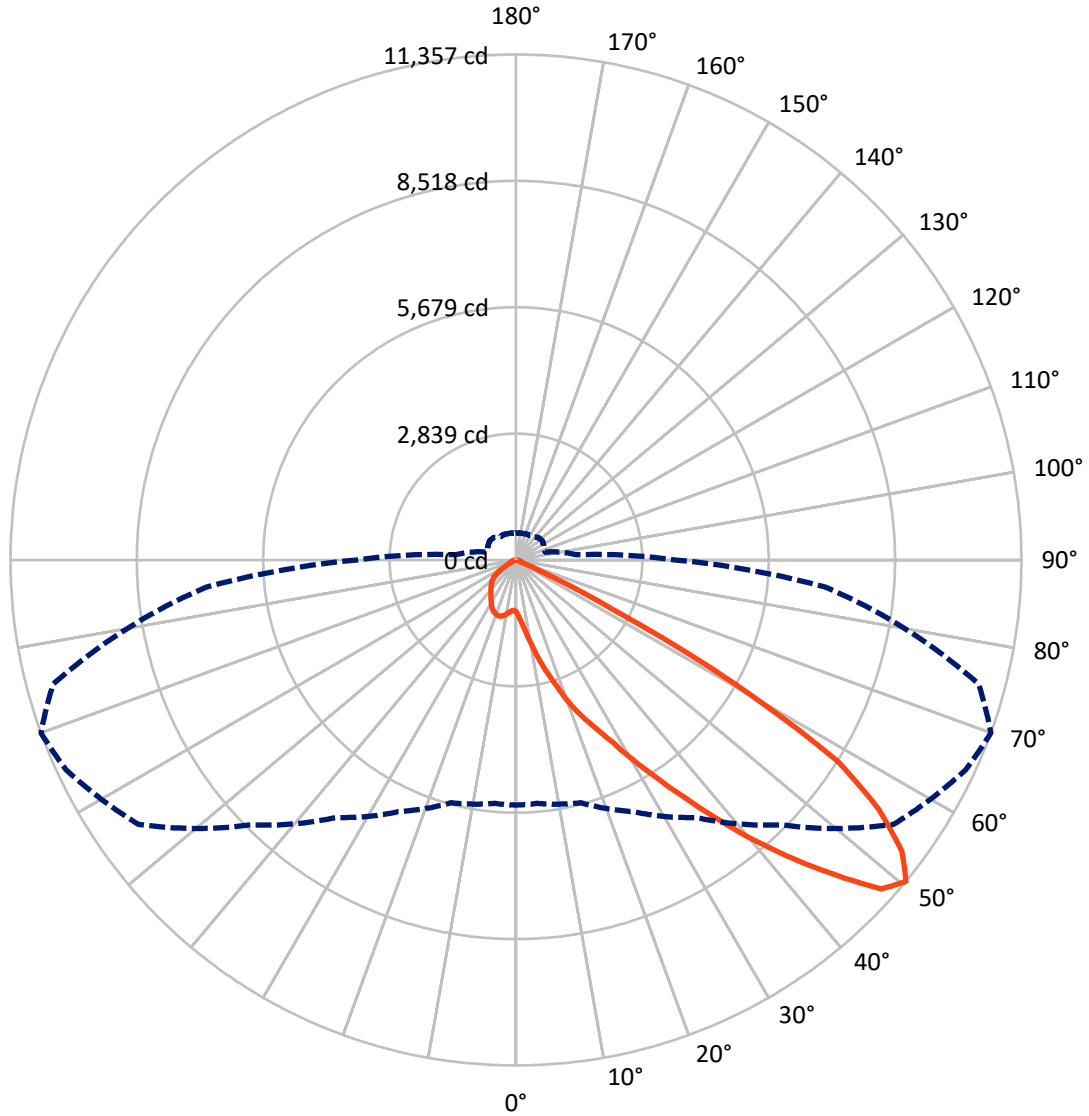
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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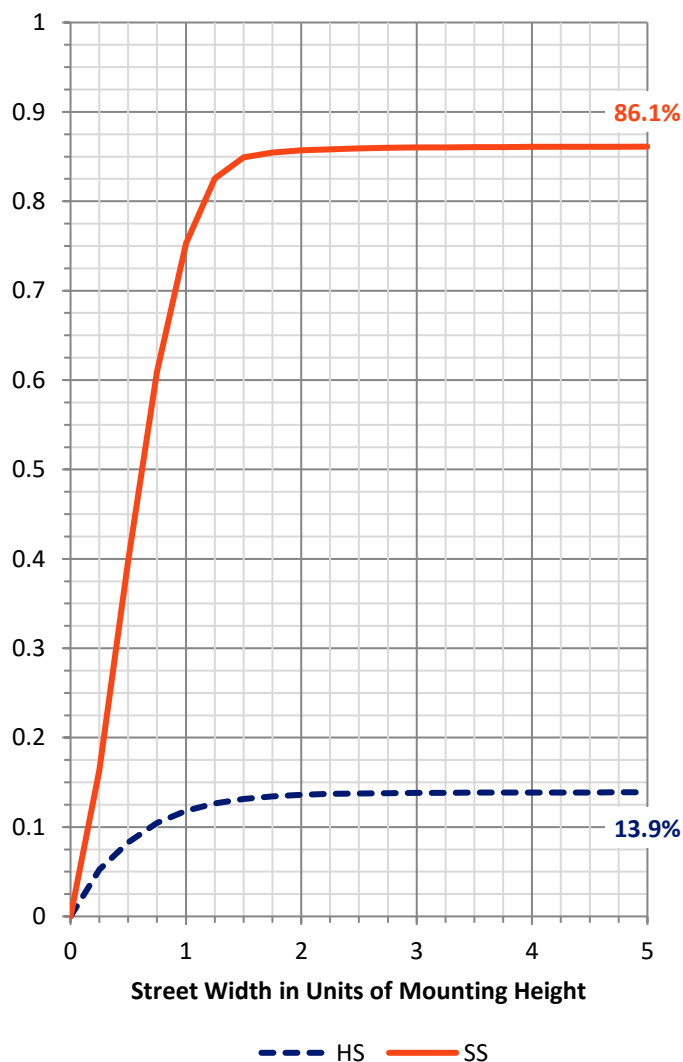
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1568.9	0.0	1568.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9665.1	0.0	9665.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	11234.0	0.0	11234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	1.3
10°-20°	654.5	5.8
20°-30°	1373.1	12.2
30°-40°	2366.7	21.1
40°-50°	3459.0	30.8
50°-60°	2694.0	24.0
60°-70°	456.4	4.1
70°-80°	62.7	0.6
80°-90°	16.2	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°	11234.0	100.0
0°-180°	11234.0	100.0

Coefficient of Utilization



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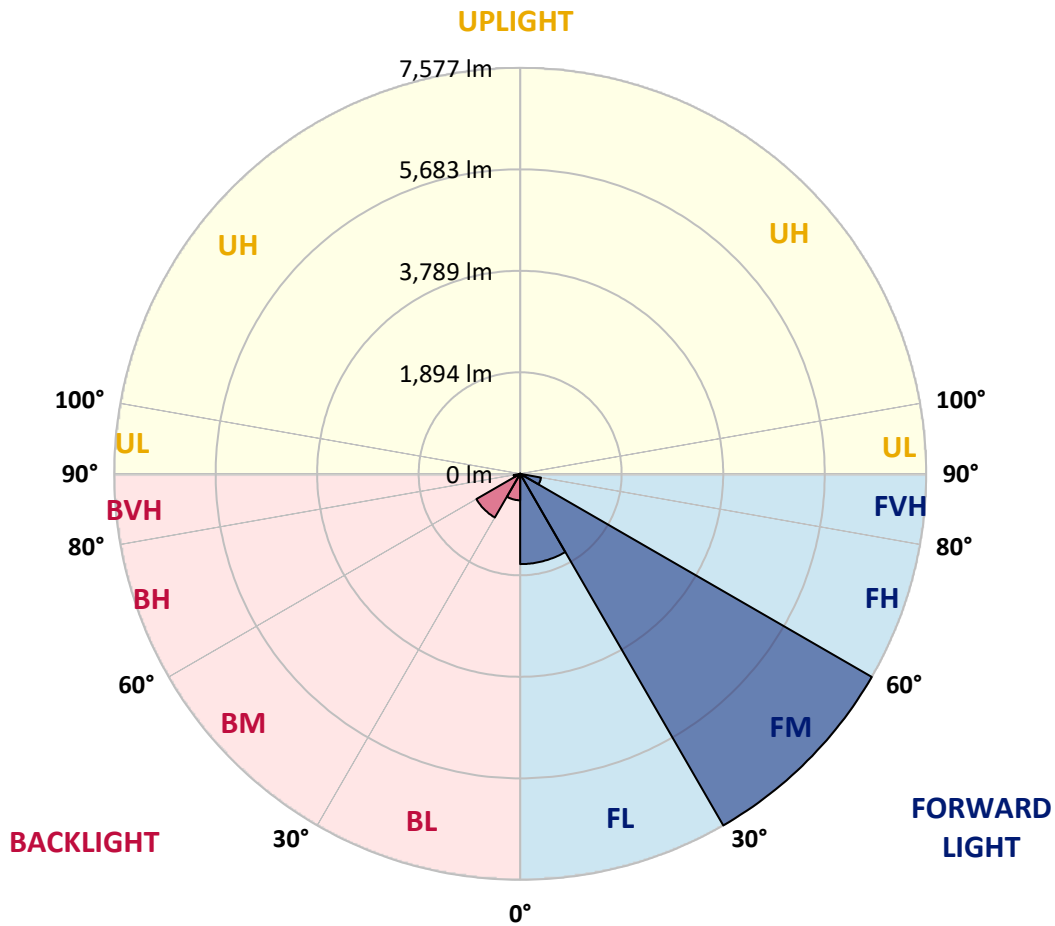
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1685.2	15.0			
FM (30°-60°)	7577.1	67.4			
FH (60°-80°)	395.2	3.5			G0/660
FVH (80°-90°)	7.5	0.1			G0/10
BL (0°-30°)	493.7	4.4	B1/500		
BM (30°-60°)	942.5	8.4	B1/1000		
BH (60°-80°)	123.9	1.1	B1/500		G1/500
BVH (80°-90°)	8.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6
2.5°	1523.8	1512.7	1488.7	1444.4	1425.9	1381.6	1355.7	1305.8	1274.4	1239.3	1200.6
5°	2146.2	2089.0	2053.9	2004.0	1858.1	1767.6	1618.0	1490.5	1431.4	1366.8	1278.1
7.5°	2789.0	2752.1	2704.0	2596.9	2497.2	2308.8	2052.0	1771.3	1651.2	1540.4	1364.9
10°	3320.9	3217.5	3212.0	3132.5	3023.6	2798.2	2489.8	2140.7	1926.4	1763.9	1488.7
12.5°	3692.2	3598.0	3640.5	3631.2	3529.7	3322.8	2966.3	2504.6	2281.1	2028.0	1616.1
15°	4030.2	3991.4	3978.5	3967.4	3926.8	3773.5	3453.9	2947.8	2624.6	2319.9	1760.2
17.5°	4360.8	4261.1	4309.1	4318.3	4314.6	4176.1	3876.9	3369.0	2988.5	2628.3	1911.7
20°	4654.5	4663.7	4599.1	4586.1	4575.1	4569.5	4277.7	3786.4	3435.5	2951.5	2109.3
22.5°	5031.3	4966.6	5023.9	4986.9	4914.9	4870.6	4647.1	4155.8	3823.3	3341.3	2310.6
25°	5476.4	5528.1	5393.3	5378.5	5299.1	5145.8	4944.5	4569.5	4196.4	3703.3	2528.6
27.5°	6025.0	5934.5	5899.4	5818.1	5674.0	5609.4	5373.0	4996.2	4647.1	4083.8	2739.1
30°	6496.0	6472.0	6296.5	6200.4	6074.8	6073.0	5742.4	5574.3	5234.4	4680.3	3029.1
32.5°	6880.1	6774.9	6710.2	6643.7	6542.1	6569.8	6290.9	6202.3	5860.6	5234.4	3370.8
35°	7136.9	7061.1	7022.4	6920.8	6891.2	7015.0	6898.6	6861.7	6580.9	6013.9	3771.6
37.5°	7218.1	7242.2	7234.8	7107.3	7170.1	7504.4	7654.0	7558.0	7410.2	6835.8	4205.7
40°	7290.2	7306.8	7269.9	7419.5	7598.6	7979.1	8520.3	8361.4	8306.0	7668.8	4809.6
42.5°	7330.8	7317.9	7317.9	7576.5	7848.0	8612.6	9357.0	9251.7	9209.2	8555.4	5507.8
45°	7155.3	7029.7	7164.6	7515.5	8062.2	8924.8	10025.6	10171.5	10110.6	9610.0	6324.2
47.5°	6499.7	6577.2	6653.0	7122.1	7801.8	8828.7	10435.7	10932.5	11045.2	10496.6	6859.8
50°	5507.8	5491.2	5648.2	6239.2	7064.8	8415.0	10356.2	11152.3	11357.3	10762.6	6972.5
52.5°	4006.2	4128.1	4298.0	4885.4	5864.3	7343.7	9331.1	10585.3	10858.6	10435.7	6898.6
55°	2332.8	2198.0	2580.3	3077.1	4000.6	5539.2	7888.6	9382.9	9888.9	9840.9	6525.5
57.5°	934.6	905.0	1036.2	1396.3	2087.1	3433.6	5736.8	7709.5	8520.3	9013.4	5735.0
60°	410.0	400.8	471.0	568.9	853.3	1582.9	3138.1	4794.9	5640.8	6298.3	3947.1
62.5°	295.5	291.8	326.9	362.0	450.7	688.9	1318.8	1932.0	2408.5	2909.1	1767.6
65°	238.3	247.5	271.5	290.0	332.5	382.3	465.4	537.5	659.4	683.4	389.7
67.5°	193.9	201.3	223.5	243.8	251.2	206.9	214.3	188.4	188.4	168.1	134.8
70°	142.2	144.1	169.9	193.9	155.1	83.1	145.9	145.9	131.1	125.6	114.5
72.5°	105.3	107.1	127.4	120.1	61.0	51.7	107.1	118.2	107.1	101.6	92.4
75°	77.6	79.4	66.5	27.7	25.9	33.2	62.8	81.3	77.6	75.7	70.2
77.5°	14.8	11.1	9.2	12.9	18.5	27.7	40.6	49.9	51.7	55.4	51.7
80°	1.8	1.8	5.5	11.1	20.3	29.6	42.5	48.0	49.9	51.7	48.0
82.5°	0.0	1.8	5.5	11.1	20.3	27.7	36.9	42.5	46.2	48.0	46.2
85°	0.0	1.8	3.7	9.2	16.6	20.3	18.5	12.9	11.1	12.9	9.2
87.5°	0.0	0.0	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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°	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6
2.5°	1178.4	1171.0	1145.2	1117.4	1093.4	1104.5	1093.4	1084.2	1087.9	1084.2	1080.5
5°	1243.0	1209.8	1154.4	1130.4	1110.1	1108.2	1102.7	1100.8	1102.7	1102.7	1086.0
7.5°	1304.0	1250.4	1191.3	1165.5	1141.5	1143.3	1130.4	1130.4	1128.5	1119.3	1115.6
10°	1396.3	1324.3	1248.6	1202.4	1172.9	1167.3	1154.4	1141.5	1141.5	1141.5	1123.0
12.5°	1497.9	1407.4	1304.0	1250.4	1215.3	1187.6	1167.3	1163.6	1143.3	1139.6	1130.4
15°	1586.6	1472.1	1340.9	1267.1	1222.7	1185.8	1154.4	1134.1	1124.8	1119.3	1111.9
17.5°	1673.4	1527.5	1361.3	1267.1	1219.0	1176.6	1143.3	1124.8	1102.7	1106.4	1091.6
20°	1789.8	1586.6	1366.8	1243.0	1183.9	1143.3	1099.0	1089.7	1076.8	1065.7	1069.4
22.5°	1902.4	1629.1	1350.2	1213.5	1128.5	1080.5	1058.3	1047.3	1041.7	1032.5	1019.6
25°	2004.0	1675.2	1324.3	1159.9	1069.4	1034.3	1014.0	1012.2	999.2	999.2	975.2
27.5°	2107.4	1691.9	1280.0	1097.1	1017.7	997.4	988.2	984.5	978.9	966.0	949.4
30°	2225.7	1697.4	1215.3	1032.5	971.5	949.4	962.3	971.5	947.5	923.5	930.9
32.5°	2323.5	1684.5	1137.8	971.5	938.3	927.2	953.1	962.3	934.6	908.7	895.8
35°	2441.8	1653.1	1062.0	923.5	905.0	927.2	949.4	949.4	894.0	862.6	855.2
37.5°	2620.9	1618.0	991.8	882.9	869.9	916.1	945.7	925.4	838.5	799.8	790.5
40°	2813.0	1595.8	923.5	842.2	851.5	897.7	914.3	851.5	762.8	738.8	731.4
42.5°	3091.9	1551.5	862.6	807.1	834.9	871.8	871.8	759.1	725.9	712.9	711.1
45°	3439.1	1520.1	809.0	777.6	810.8	820.1	790.5	711.1	687.1	683.4	685.2
47.5°	3609.1	1459.1	753.6	742.5	766.5	768.4	690.8	672.3	652.0	646.5	642.8
50°	3583.2	1350.2	681.5	696.3	729.6	711.1	629.8	633.5	615.1	613.2	604.0
52.5°	3402.2	1178.4	609.5	644.6	681.5	628.0	580.0	576.3	576.3	552.3	543.0
55°	3016.2	949.4	522.7	567.0	611.4	528.2	515.3	511.6	502.4	480.2	474.7
57.5°	2388.2	696.3	393.4	441.4	519.0	448.8	447.0	430.4	406.3	389.7	389.7
60°	1420.4	400.8	247.5	269.7	343.5	363.9	404.5	397.1	356.5	330.6	323.2
62.5°	648.3	206.9	157.0	160.7	184.7	236.4	317.7	367.6	310.3	266.0	262.3
65°	217.9	153.3	129.3	123.8	127.4	142.2	190.2	260.4	247.5	205.0	197.6
67.5°	133.0	136.7	121.9	112.7	112.7	110.8	109.0	118.2	145.9	142.2	144.1
70°	114.5	125.6	112.7	101.6	97.9	92.4	77.6	64.6	55.4	64.6	68.3
72.5°	92.4	99.7	96.0	86.8	77.6	70.2	55.4	42.5	31.4	27.7	27.7
75°	68.3	73.9	77.6	66.5	59.1	49.9	40.6	27.7	16.6	11.1	11.1
77.5°	49.9	55.4	57.3	51.7	44.3	35.1	25.9	18.5	9.2	3.7	3.7
80°	42.5	49.9	55.4	51.7	46.2	33.2	24.0	12.9	7.4	1.8	1.8
82.5°	40.6	49.9	55.4	49.9	44.3	31.4	24.0	14.8	5.5	1.8	1.8
85°	9.2	12.9	16.6	20.3	24.0	24.0	18.5	11.1	5.5	1.8	1.8
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	1.8	1.8	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)