

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: P647840

Luminaire Tested: **GALN-SA3A-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7990.5 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

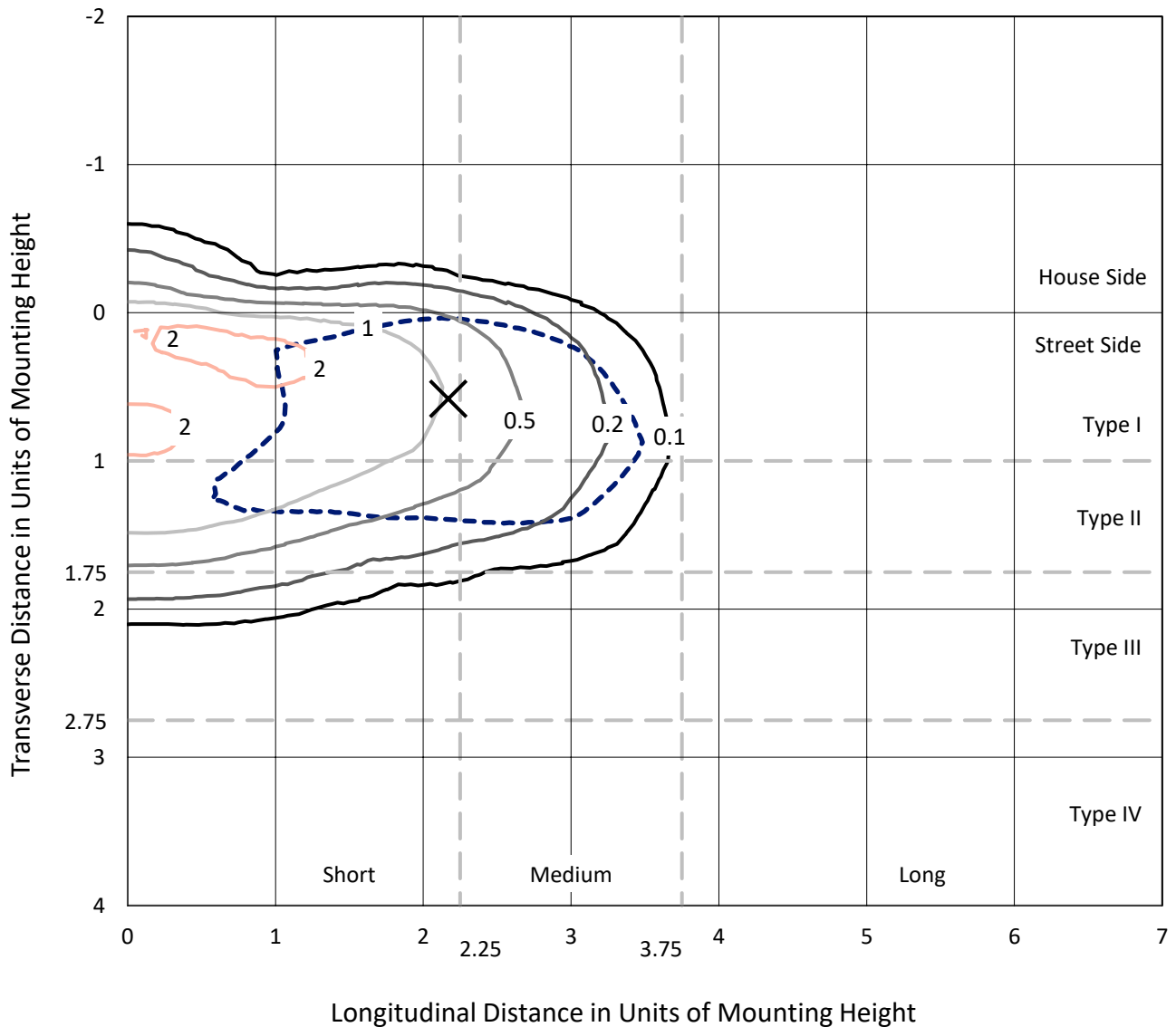
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

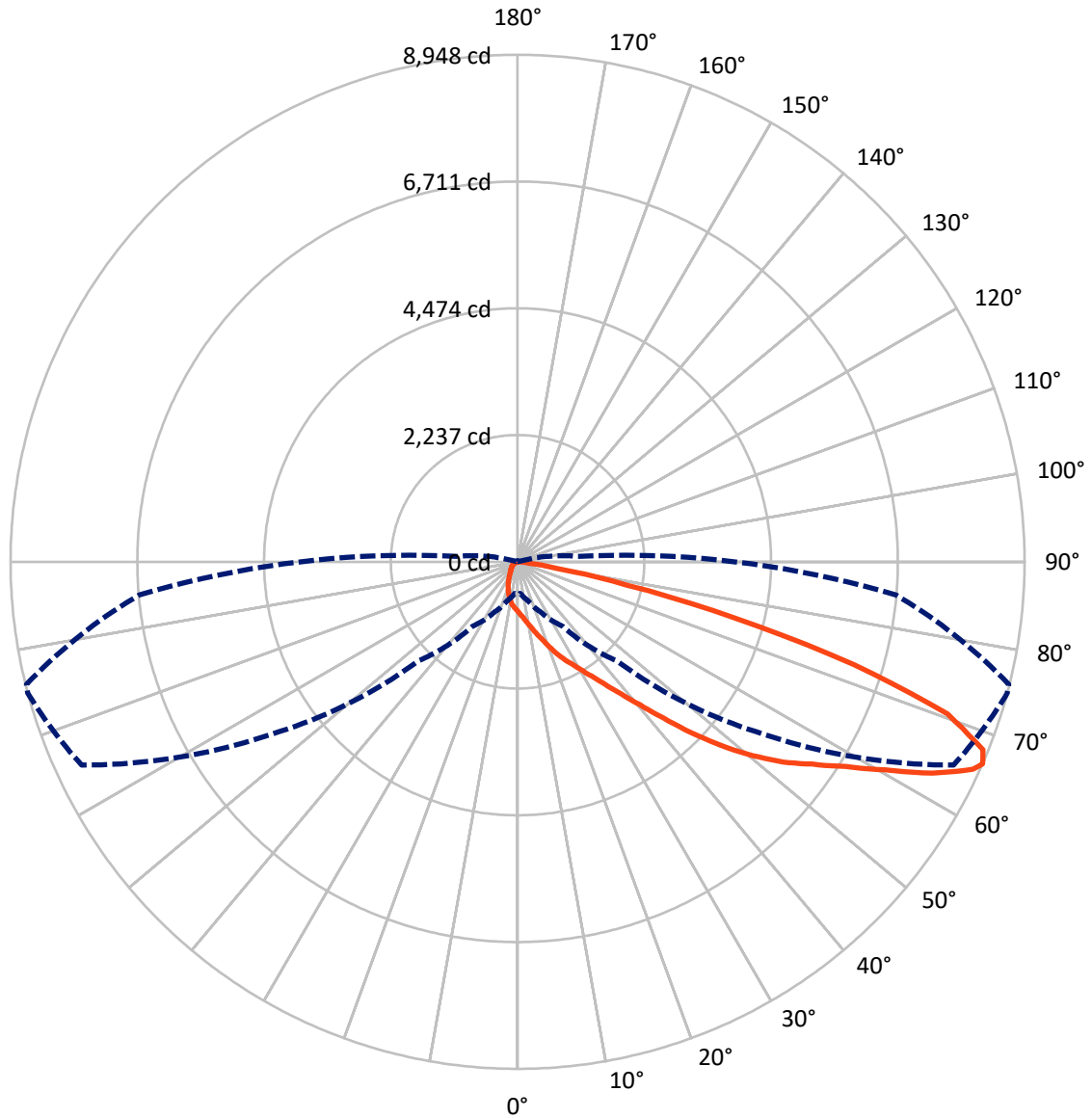
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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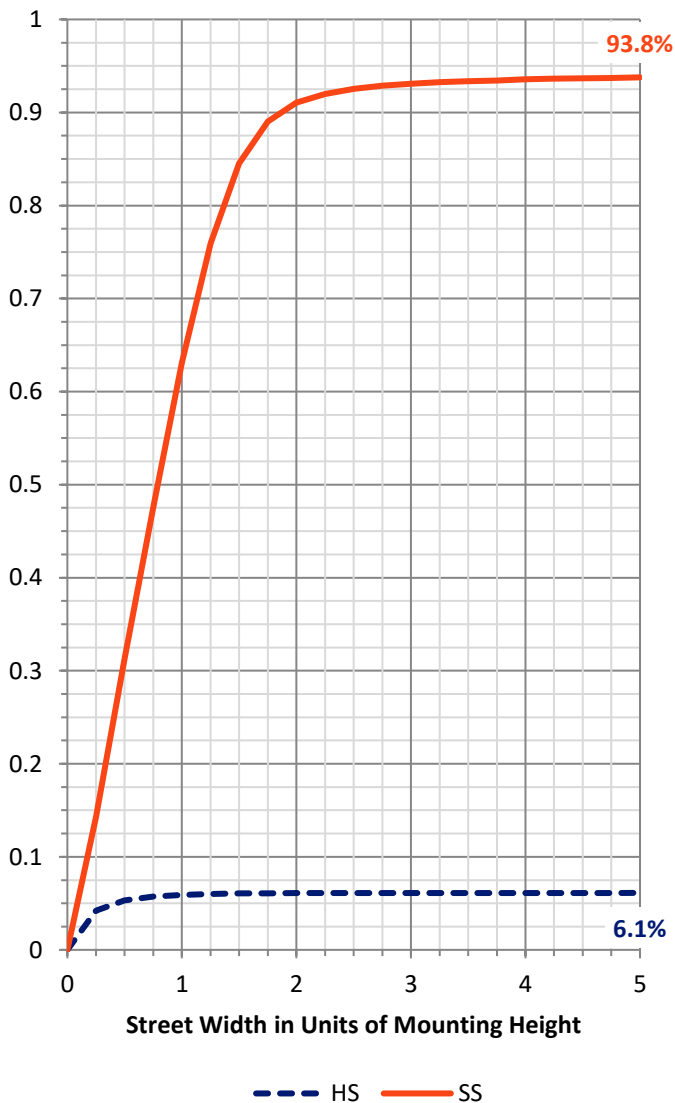
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	493.3	0.0	493.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	7497.2	0.0	7497.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	7990.5	0.0	7990.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	1.1
10°-20°	248.1	3.1
20°-30°	428.3	5.4
30°-40°	772.6	9.7
40°-50°	1395.7	17.5
50°-60°	2176.0	27.2
60°-70°	2067.1	25.9
70°-80°	774.7	9.7
80°-90°	43.7	0.5
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°	7990.5	100.0
0°-180°	7990.5	100.0

Coefficient of Utilization

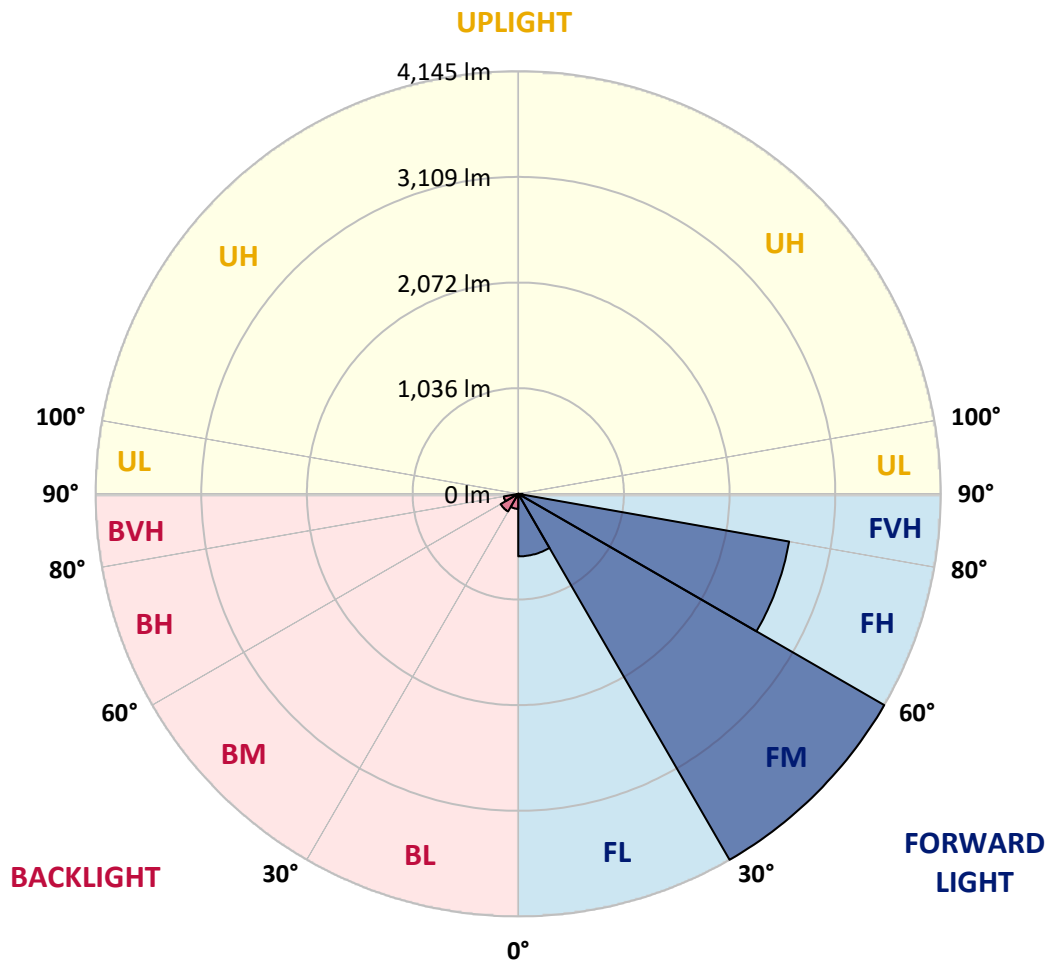


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.3	7.7			
FM (30°-60°)	4144.7	51.9			
FH (60°-80°)	2697.7	33.8			G2/5000
FVH (80°-90°)	41.4	0.5			G1/100
BL (0°-30°)	147.3	1.8	B1/500		
BM (30°-60°)	199.7	2.5	B0/220		
BH (60°-80°)	144.0	1.8	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8
2.5°	1044.0	1031.0	1035.1	1029.3	1015.6	995.6	977.8	952.4	927.0	922.8	894.5
5°	1181.7	1178.1	1173.4	1156.3	1146.8	1116.1	1079.4	1035.8	983.1	973.7	922.3
7.5°	1275.6	1273.9	1276.2	1267.4	1259.1	1231.3	1192.3	1132.6	1051.1	1045.8	960.1
10°	1306.4	1311.1	1319.9	1334.1	1347.1	1338.2	1308.7	1234.2	1139.1	1123.8	1003.3
12.5°	1288.6	1293.9	1315.2	1353.0	1395.0	1419.2	1407.4	1353.0	1232.4	1220.1	1051.6
15°	1243.1	1249.6	1279.7	1338.2	1413.2	1481.8	1511.3	1472.4	1341.2	1321.1	1110.1
17.5°	1175.8	1185.2	1228.4	1305.7	1408.5	1526.7	1610.0	1597.0	1457.0	1438.1	1174.0
20°	1124.9	1132.1	1168.7	1257.3	1388.5	1551.5	1704.0	1740.6	1600.0	1567.5	1249.0
22.5°	1158.6	1161.0	1173.4	1226.6	1352.4	1558.0	1786.6	1890.1	1751.8	1722.8	1327.0
25°	1323.4	1299.9	1287.4	1275.6	1344.7	1552.1	1861.7	2046.1	1903.1	1872.4	1404.4
27.5°	1583.5	1572.8	1510.2	1426.2	1410.3	1559.8	1911.4	2193.7	2045.4	2012.4	1480.0
30°	1866.4	1848.1	1809.7	1686.8	1563.3	1614.2	1947.4	2337.3	2213.9	2170.2	1549.2
32.5°	2126.4	2138.2	2080.9	1954.4	1811.5	1730.0	1994.1	2493.9	2407.0	2352.7	1629.5
35°	2429.5	2453.1	2365.1	2244.0	2076.8	1939.1	2085.1	2670.6	2652.3	2583.7	1753.6
37.5°	2737.3	2751.5	2697.7	2527.6	2377.0	2205.0	2256.4	2888.6	2954.2	2895.7	1901.9
40°	2996.1	3015.6	2976.0	2824.8	2664.1	2512.8	2505.1	3126.1	3313.4	3253.1	2122.9
42.5°	3194.0	3208.8	3210.0	3103.0	2958.3	2889.7	2822.4	3429.2	3763.6	3693.9	2379.3
45°	3443.9	3465.2	3452.8	3380.1	3272.0	3259.6	3224.8	3795.5	4302.4	4214.4	2711.9
47.5°	3830.4	3844.5	3813.8	3728.2	3618.2	3637.7	3617.1	4206.1	4851.9	4776.3	3056.4
50°	4098.6	4122.3	4166.0	4200.2	4120.5	4048.4	3987.0	4589.6	5373.7	5305.7	3408.5
52.5°	4095.6	4134.6	4272.9	4445.4	4619.7	4597.9	4421.2	5013.2	5871.7	5787.8	3739.4
55°	3819.7	3895.3	4098.6	4404.7	4887.4	5127.9	5047.5	5503.6	6301.8	6245.1	4122.8
57.5°	3250.2	3296.3	3578.7	4006.5	4737.9	5377.2	5773.1	6168.3	6817.7	6791.0	4718.4
60°	2186.1	2206.7	2570.1	3099.0	4033.6	5128.4	6304.8	6972.4	7452.8	7439.8	5413.8
62.5°	1252.6	1261.4	1525.0	1971.0	2870.2	4346.2	6349.7	7964.4	8214.4	8221.4	6218.5
65°	674.2	678.9	891.6	1156.9	1746.5	3097.7	5709.8	8508.0	8830.0	8843.6	6717.2
66°	582.0	559.5	709.6	986.1	1389.7	2465.5	5305.1	8488.5	8948.2	8933.4	6699.4
67.5°	442.6	462.6	566.6	758.0	1029.8	1753.0	4379.9	8110.9	8858.4	8812.3	6427.1
70°	316.7	324.9	403.6	540.6	701.3	961.8	2798.8	6736.7	8051.3	7989.3	5599.3
72.5°	204.4	213.3	286.0	391.1	506.9	525.2	1566.9	4867.3	6207.3	6198.5	4216.8
75°	146.0	154.2	189.1	280.1	381.1	324.9	754.5	3280.3	3946.2	3919.6	2608.6
77.5°	105.8	109.9	126.5	183.1	272.4	232.8	349.8	1751.8	1964.5	2057.3	1152.7
80°	60.8	64.4	88.0	111.7	184.3	158.9	167.2	703.1	725.0	690.1	360.4
82.5°	30.1	34.3	52.6	76.2	115.2	107.0	76.8	211.5	223.3	217.4	91.0
85°	7.1	8.8	29.5	50.2	56.1	47.8	37.2	62.0	76.8	75.0	34.8
87.5°	0.6	1.2	10.6	8.8	9.5	16.0	13.0	16.0	24.8	23.0	12.4
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°	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8
2.5°	881.5	870.3	837.8	805.9	779.3	751.5	726.2	711.4	705.5	699.0	701.9
5°	894.0	866.8	801.2	744.5	688.9	641.7	603.8	579.6	567.8	566.0	563.1
7.5°	910.5	863.8	762.2	673.5	600.9	548.3	505.2	470.3	459.7	450.2	442.6
10°	930.6	858.5	713.7	599.1	521.7	455.5	398.8	357.4	336.2	330.3	334.4
12.5°	951.8	848.5	662.9	530.6	441.4	356.9	304.3	283.6	277.7	275.3	275.9
15°	973.1	836.0	609.7	464.4	351.6	284.8	260.6	255.3	252.9	251.7	250.5
17.5°	992.6	816.0	550.1	400.0	284.8	243.4	234.6	229.8	225.1	223.3	220.4
20°	1015.6	792.9	496.3	327.9	241.1	220.4	209.8	200.9	193.8	189.1	188.5
22.5°	1037.5	763.3	440.2	271.8	219.8	197.9	180.8	171.3	163.1	157.1	158.9
25°	1049.3	727.3	389.9	236.9	200.3	175.5	156.6	144.8	135.9	133.0	132.3
27.5°	1049.3	683.0	340.9	216.8	182.6	155.4	135.9	124.7	118.8	114.6	115.2
30°	1041.1	634.0	295.4	201.5	167.2	137.7	119.3	109.3	104.6	101.6	101.0
32.5°	1034.6	587.2	256.4	186.7	151.3	122.3	106.3	98.7	94.0	91.0	91.0
35°	1044.6	547.1	226.3	171.9	136.5	110.5	96.3	89.2	84.5	82.1	81.5
37.5°	1071.1	510.5	203.3	156.0	122.9	100.5	89.2	81.0	76.2	73.3	72.1
40°	1136.8	489.8	186.1	141.2	109.9	92.2	81.0	73.3	67.3	64.4	63.8
42.5°	1241.9	490.4	169.6	127.6	99.8	85.1	73.8	65.0	58.5	55.5	55.0
45°	1400.2	512.9	156.6	114.6	91.0	77.4	66.2	56.7	50.8	47.8	47.8
47.5°	1590.0	556.6	145.3	103.4	82.7	70.3	58.5	49.0	43.1	40.8	40.8
50°	1795.6	613.2	134.1	91.6	75.6	62.6	50.2	42.5	37.8	36.0	36.0
52.5°	2005.3	681.8	122.9	82.1	68.0	54.3	43.1	37.8	33.7	32.5	31.9
55°	2280.6	769.3	111.1	72.1	59.7	46.7	38.4	33.1	28.3	26.6	26.0
57.5°	2704.2	901.0	98.1	63.2	49.0	39.0	33.1	27.8	22.5	19.5	18.9
60°	3215.3	1061.7	84.5	55.5	39.6	31.9	26.6	21.3	16.5	13.0	12.4
62.5°	3693.9	1163.9	71.5	46.7	31.3	24.2	18.9	16.0	11.8	8.3	7.7
65°	3905.4	1129.6	59.1	37.8	24.8	17.1	12.4	11.2	7.1	3.5	3.0
66°	3835.1	1078.9	54.3	34.3	22.5	14.8	10.6	9.5	5.3	1.8	1.8
67.5°	3627.7	958.9	47.3	29.5	19.5	11.8	8.3	7.1	3.0	0.6	0.0
70°	3108.4	775.8	37.2	21.8	14.2	8.3	4.7	3.5	1.8	0.0	0.0
72.5°	2387.5	577.9	29.5	16.5	10.0	4.7	2.3	1.2	1.8	0.0	0.0
75°	1462.9	330.3	23.0	12.4	6.5	3.0	1.8	0.0	1.8	0.6	0.0
77.5°	649.3	148.3	15.3	8.3	4.7	2.3	1.2	0.0	1.2	0.6	0.0
80°	164.3	48.5	8.8	5.9	3.5	1.8	0.6	0.0	1.2	1.2	0.6
82.5°	44.9	17.7	6.5	4.7	3.0	1.8	0.6	0.0	1.2	1.2	1.2
85°	17.7	8.3	5.9	4.7	3.5	1.8	0.6	0.0	1.2	1.2	1.2
87.5°	8.3	5.9	5.9	5.3	4.1	1.8	0.6	0.0	1.2	0.6	1.2
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)