

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: P651756

Luminaire Tested: **GALN-SA2A-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6055.2 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

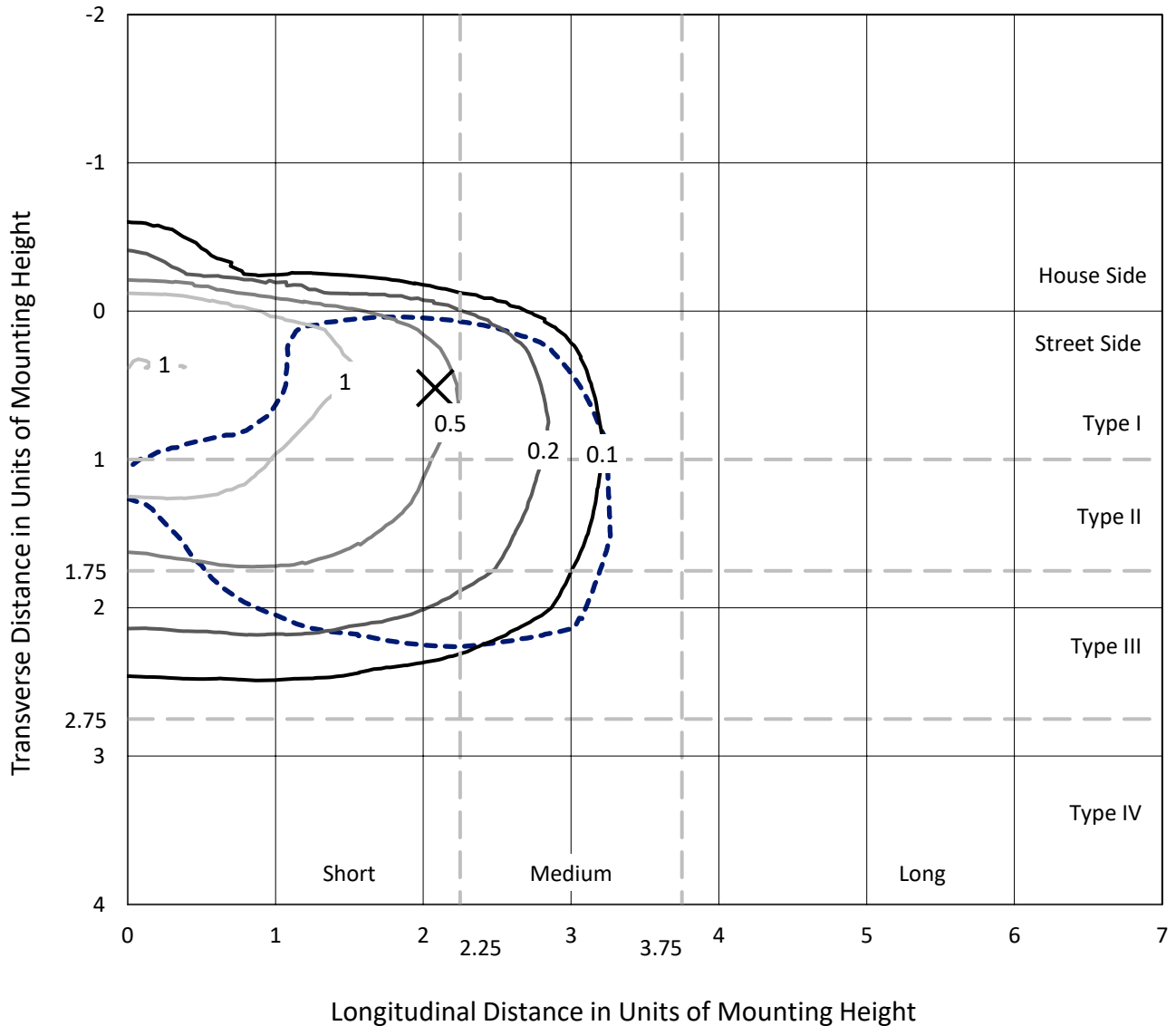
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

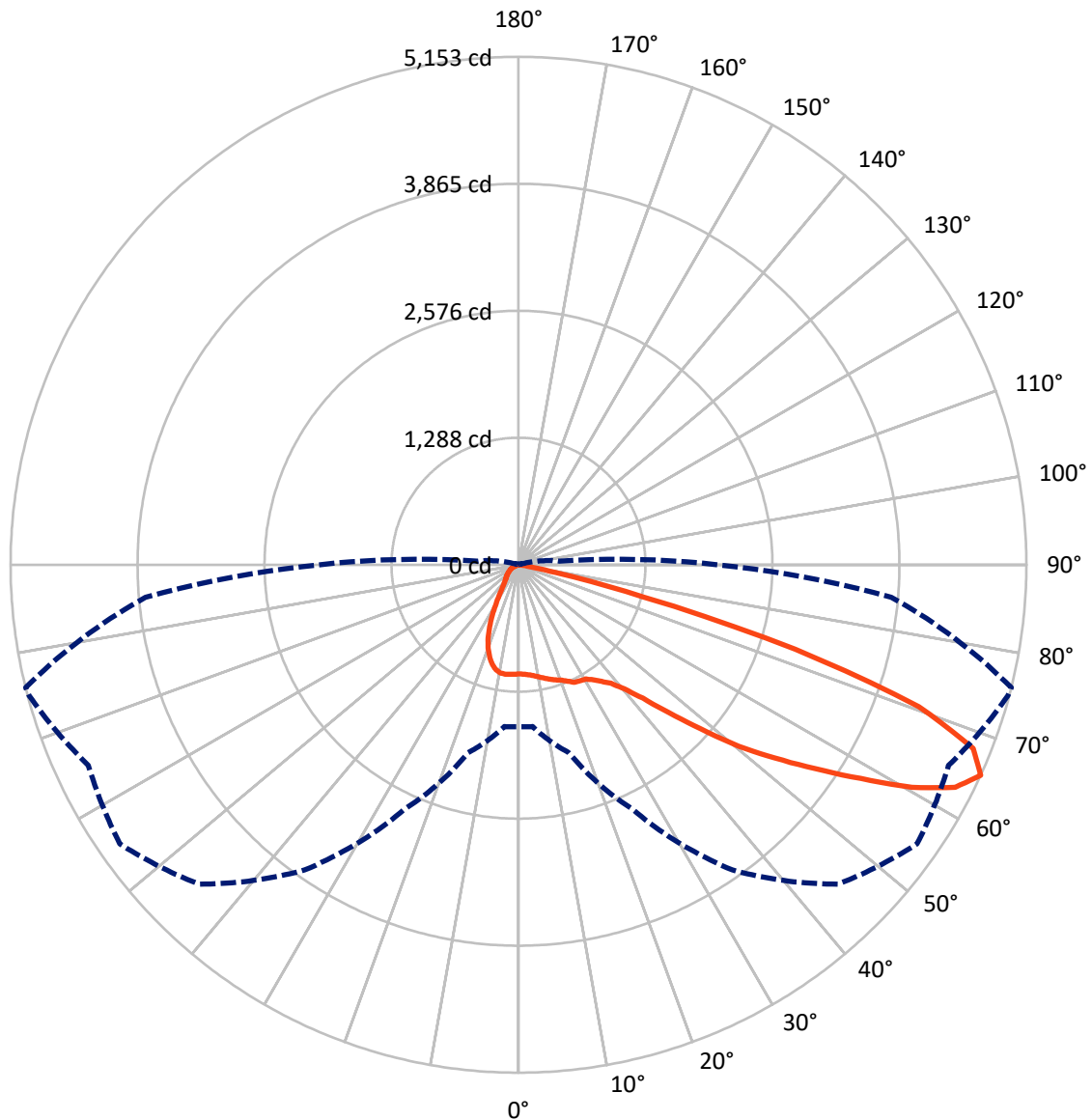
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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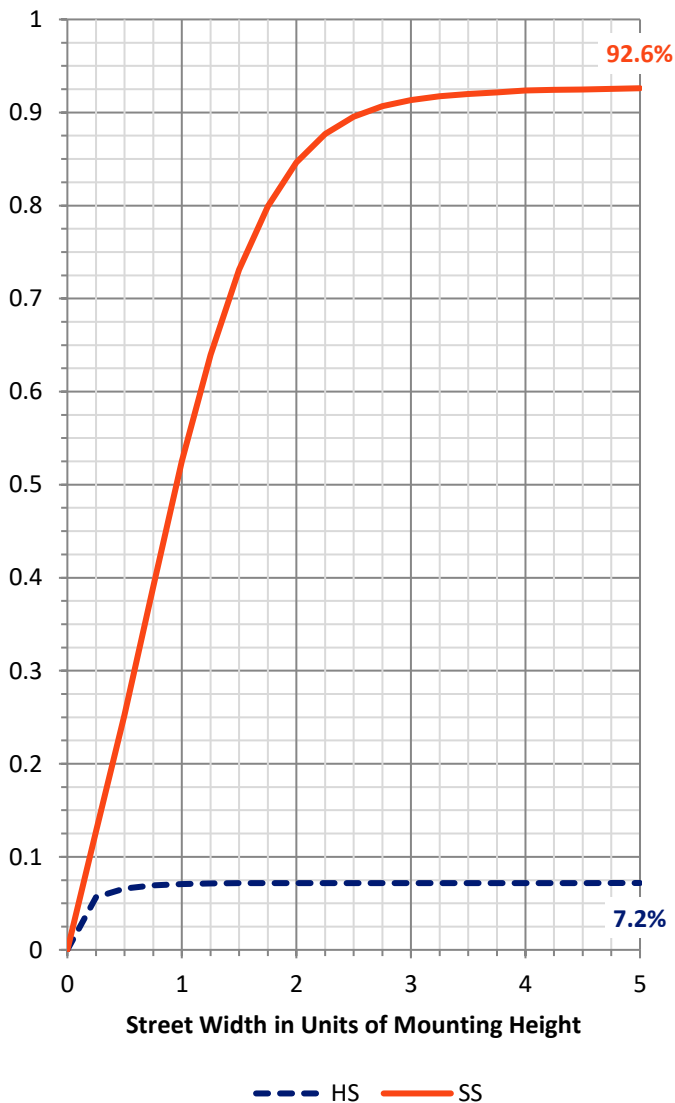
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	437.3	0.0	437.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	5617.9	0.0	5617.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	6055.2	0.0	6055.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.5
10°-20°	203.2	3.4
20°-30°	327.4	5.4
30°-40°	569.3	9.4
40°-50°	940.7	15.5
50°-60°	1453.1	24.0
60°-70°	1774.5	29.3
70°-80°	673.5	11.1
80°-90°	22.5	0.4
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°	6055.2	100.0
0°-180°	6055.2	100.0

Coefficient of Utilization



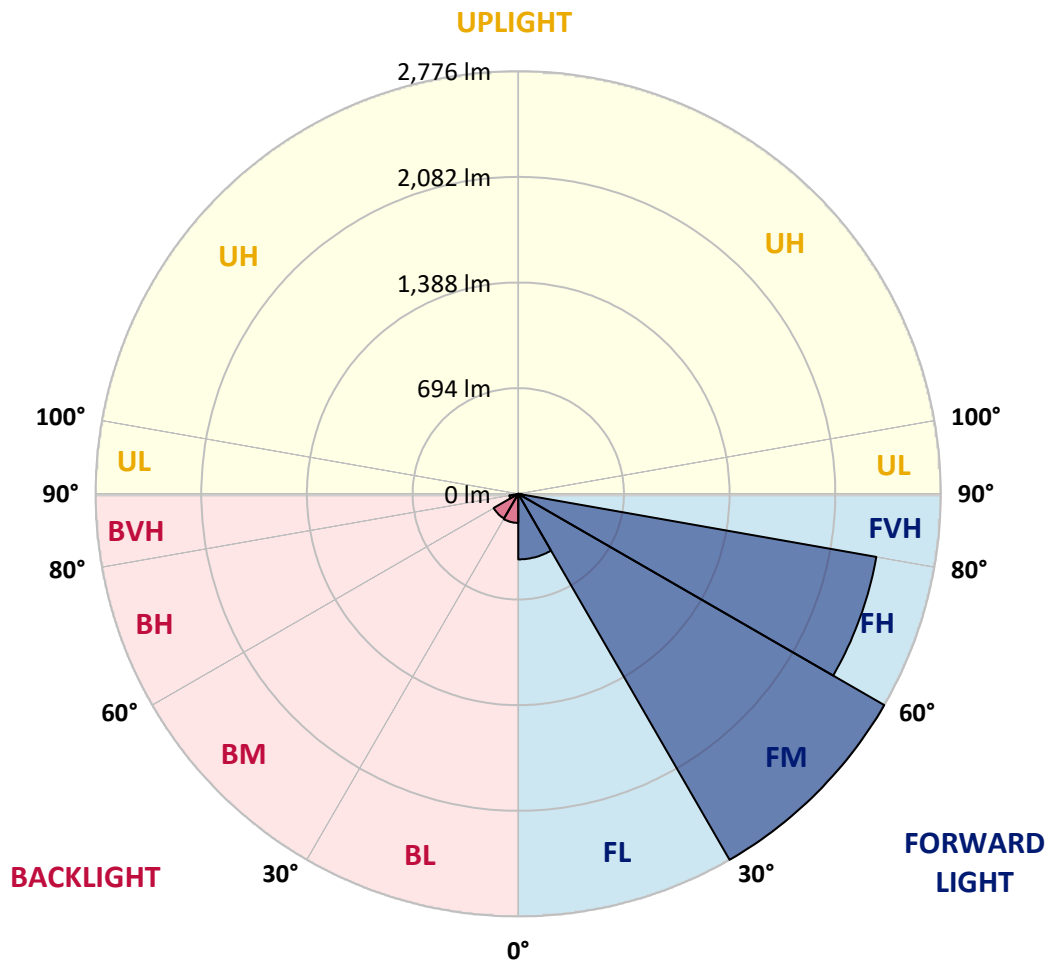
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	430.8	7.1			
FM (30°-60°)	2776.4	45.9			
FH (60°-80°)	2388.6	39.4			G2/5000
FVH (80°-90°)	22.2	0.4			G1/100
BL (0°-30°)	191.1	3.2	B1/500		
BM (30°-60°)	186.6	3.1	B0/220		
BH (60°-80°)	59.3	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7
2.5°	1058.6	1059.0	1061.5	1067.9	1077.7	1085.9	1092.7	1103.8	1111.5	1112.4	1115.0
5°	985.4	980.3	985.4	1002.1	1017.0	1039.7	1067.5	1095.3	1120.1	1121.8	1133.8
7.5°	903.3	907.6	915.8	932.8	961.0	995.7	1035.9	1085.5	1132.5	1136.8	1160.2
10°	820.0	829.4	842.6	868.7	908.0	952.9	1007.7	1078.6	1152.2	1158.1	1198.8
12.5°	743.0	747.3	763.5	798.6	847.3	910.6	986.2	1074.8	1174.0	1181.2	1239.8
15°	684.0	689.6	703.7	735.3	789.6	870.9	968.7	1073.5	1195.3	1205.6	1280.8
17.5°	672.9	676.3	682.3	703.7	751.2	839.2	952.9	1073.0	1215.8	1228.3	1318.9
20°	718.6	715.7	709.6	707.5	733.6	814.8	941.4	1076.5	1235.5	1249.6	1359.1
22.5°	833.3	837.0	802.0	760.5	752.0	811.0	939.6	1092.7	1266.7	1283.4	1404.0
25°	1076.5	1047.0	992.3	893.1	818.3	834.5	958.9	1131.2	1303.0	1321.5	1444.6
27.5°	1345.3	1336.4	1251.3	1088.0	948.6	884.1	993.1	1160.7	1315.1	1333.8	1467.6
30°	1609.6	1620.3	1522.8	1342.4	1138.0	976.0	1025.2	1171.8	1325.8	1345.3	1497.1
32.5°	1854.6	1867.4	1781.9	1603.2	1361.2	1135.0	1080.3	1215.0	1370.6	1390.7	1546.3
35°	2047.3	2049.1	1984.5	1842.1	1604.9	1328.3	1199.6	1290.7	1431.3	1454.8	1598.5
37.5°	2224.4	2221.8	2146.1	2023.4	1808.0	1520.3	1349.6	1377.9	1500.6	1524.9	1673.8
40°	2355.6	2357.3	2332.9	2217.5	1997.4	1697.6	1468.5	1459.6	1616.8	1654.9	1783.2
42.5°	2443.3	2459.1	2471.0	2412.5	2235.5	1916.1	1651.1	1634.4	1818.7	1850.3	1937.9
45°	2514.2	2542.4	2602.3	2599.3	2464.2	2184.2	1901.6	1867.4	2104.7	2138.4	2135.0
47.5°	2566.0	2594.6	2693.8	2753.6	2679.3	2444.1	2216.6	2187.2	2446.2	2483.0	2352.6
50°	2592.5	2626.6	2753.2	2869.1	2847.2	2694.6	2575.8	2577.5	2858.8	2894.3	2604.8
52.5°	2530.5	2574.9	2784.8	2993.5	3035.8	2934.4	2912.2	2968.6	3226.0	3256.4	2832.7
55°	2332.5	2388.5	2741.7	3099.5	3254.2	3217.5	3294.4	3380.3	3627.5	3647.2	3066.5
57.5°	2207.3	2266.7	2614.2	3189.7	3516.7	3573.2	3695.0	3757.8	4041.7	4091.7	3335.1
60°	2101.7	2148.3	2509.5	3208.9	3783.5	4008.4	4126.8	4191.8	4553.0	4585.6	3630.4
62.5°	1926.0	1979.4	2332.5	3074.7	3917.7	4356.8	4602.2	4573.1	4948.4	4971.2	3811.7
65°	1643.4	1648.1	1973.4	2737.4	3779.2	4582.9	4936.1	4814.2	5137.4	5152.8	3797.6
67.5°	1226.5	1271.8	1518.1	2151.7	3192.3	4389.7	5044.2	4820.6	5018.2	4975.4	3496.2
70°	790.0	824.7	1029.0	1492.0	2301.7	3663.4	4685.5	4490.2	4404.2	4309.4	2861.8
72.5°	364.7	409.1	611.3	852.4	1365.0	2609.5	3803.6	3648.0	3170.0	2935.8	1819.1
75°	159.0	170.1	301.8	449.8	640.0	1380.0	2507.8	2264.6	1431.7	1307.8	728.1
77.5°	97.1	104.3	158.2	241.1	251.4	525.9	1351.0	988.0	442.5	390.3	197.6
80°	65.9	73.9	115.0	126.2	86.0	146.7	507.0	263.7	89.3	85.5	42.3
82.5°	32.0	40.6	85.1	70.6	37.2	47.0	147.5	56.4	26.1	24.4	15.0
85°	4.7	8.2	47.9	46.2	16.7	11.1	26.1	14.1	9.0	8.6	6.8
87.5°	0.0	0.0	16.2	7.2	1.7	1.7	3.0	3.0	3.4	3.0	3.4
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°	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7	1107.7
2.5°	1116.3	1118.4	1110.3	1098.7	1086.3	1074.0	1056.4	1040.6	1031.2	1036.7	1023.1
5°	1136.4	1134.6	1113.2	1078.2	1031.6	975.6	920.0	872.5	857.1	834.1	831.5
7.5°	1164.1	1159.4	1114.1	1033.8	928.5	823.4	720.8	652.8	613.9	581.0	581.9
10°	1203.1	1189.3	1104.2	955.5	782.4	623.8	492.9	403.2	364.2	351.9	342.0
12.5°	1243.3	1216.7	1076.9	849.9	609.2	426.2	299.6	245.0	221.0	213.4	212.4
15°	1279.2	1237.2	1029.0	722.9	442.9	272.3	204.4	186.4	183.4	183.8	183.4
17.5°	1314.6	1253.5	962.8	588.3	301.0	195.4	175.7	171.4	172.7	174.4	174.0
20°	1344.1	1256.9	878.1	448.9	212.9	171.4	165.0	164.2	165.4	166.8	166.8
22.5°	1376.1	1259.5	777.7	310.8	174.0	159.5	156.0	156.0	157.8	159.5	159.9
25°	1400.1	1245.4	657.5	223.2	153.5	147.9	146.2	146.7	148.4	149.2	148.8
27.5°	1404.0	1205.6	530.1	171.0	139.4	133.8	132.1	133.8	131.7	133.0	132.1
30°	1407.4	1155.1	401.0	144.1	126.6	118.0	115.5	112.9	111.2	109.0	108.6
32.5°	1418.1	1095.7	292.8	129.5	114.5	105.2	99.2	91.9	86.4	84.7	84.2
35°	1422.8	1024.3	215.0	118.0	103.9	93.6	82.9	72.7	64.6	61.6	63.7
37.5°	1440.7	955.0	166.8	109.4	94.4	81.7	68.0	55.2	47.4	45.8	46.6
40°	1477.5	879.9	139.8	102.2	86.4	70.6	53.9	41.5	36.3	34.6	34.2
42.5°	1536.5	805.0	124.4	95.4	78.2	59.5	42.3	32.5	28.3	26.9	26.9
45°	1608.3	733.2	113.7	88.1	69.7	47.9	33.4	26.1	23.5	22.6	22.6
47.5°	1702.8	670.4	104.7	80.8	60.3	38.0	26.9	22.6	20.9	21.4	21.8
50°	1798.6	623.8	94.9	72.7	49.6	31.2	23.1	20.1	19.7	20.1	20.1
52.5°	1870.8	596.4	81.7	61.6	38.9	26.1	20.5	18.8	18.4	17.5	17.5
55°	1968.3	590.4	65.0	50.0	30.8	21.8	18.4	17.1	15.8	15.0	14.5
57.5°	2093.5	597.3	50.0	38.9	24.0	18.0	16.2	14.1	12.4	10.7	10.7
60°	2171.4	581.9	38.9	29.9	17.5	14.5	12.4	10.3	8.2	6.8	6.4
62.5°	2146.6	516.9	30.8	22.2	12.4	10.7	8.2	6.8	4.7	3.4	3.0
65°	2018.7	417.2	24.8	15.4	9.0	6.4	4.3	4.3	2.1	0.4	0.0
67.5°	1766.9	309.1	19.7	10.3	5.1	3.0	2.1	1.3	0.0	0.0	0.0
70°	1438.2	223.2	15.4	6.4	3.0	2.1	0.8	0.4	0.0	0.0	0.0
72.5°	913.2	127.8	11.9	3.9	2.1	0.8	0.0	0.0	0.0	0.0	0.0
75°	353.1	50.0	8.2	2.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	100.1	23.5	4.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.1	10.3	2.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.4	4.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.2	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)