

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: P458766

Luminaire Tested: **GALN-SA3A-735-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458766  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9337 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

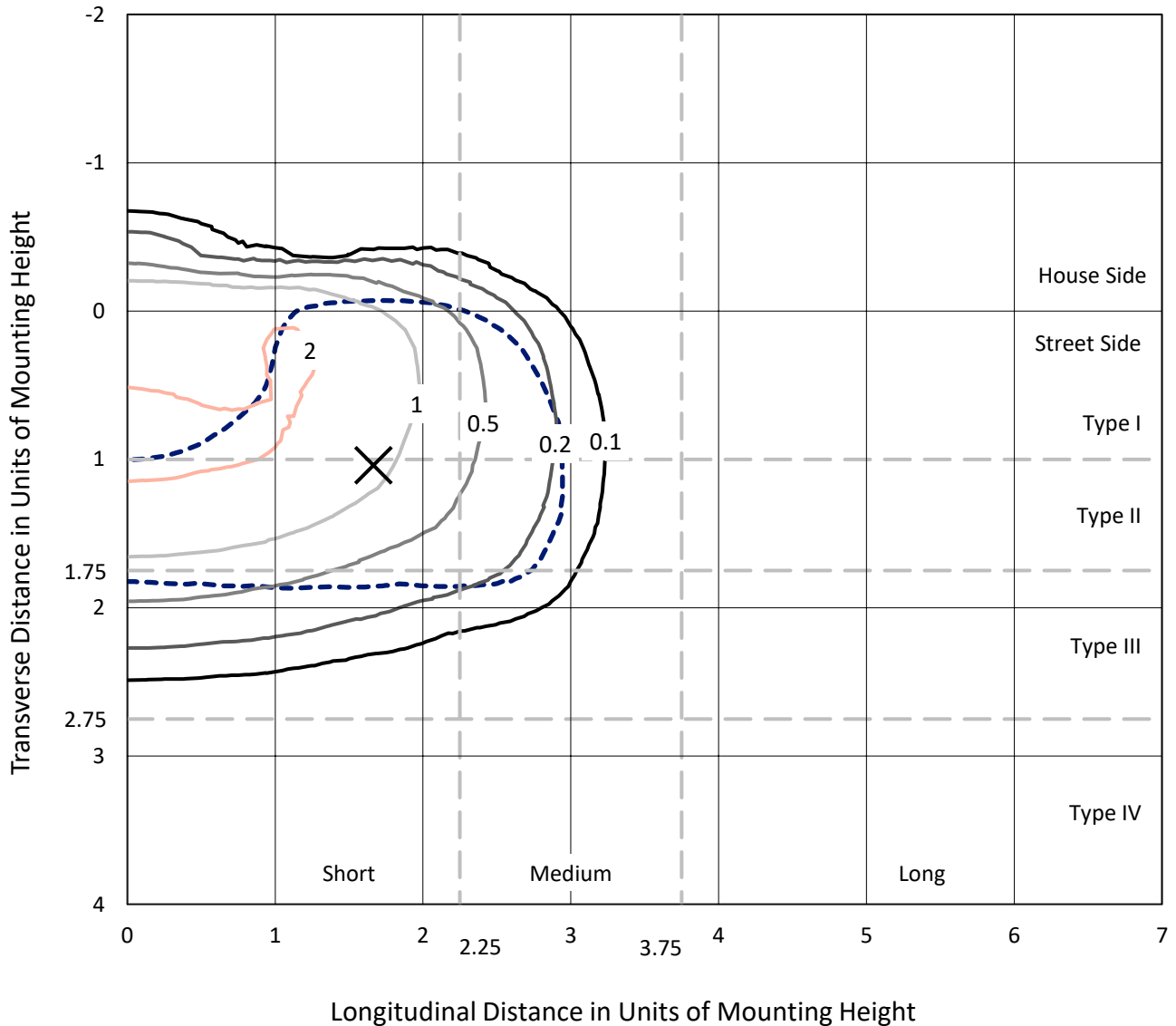
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

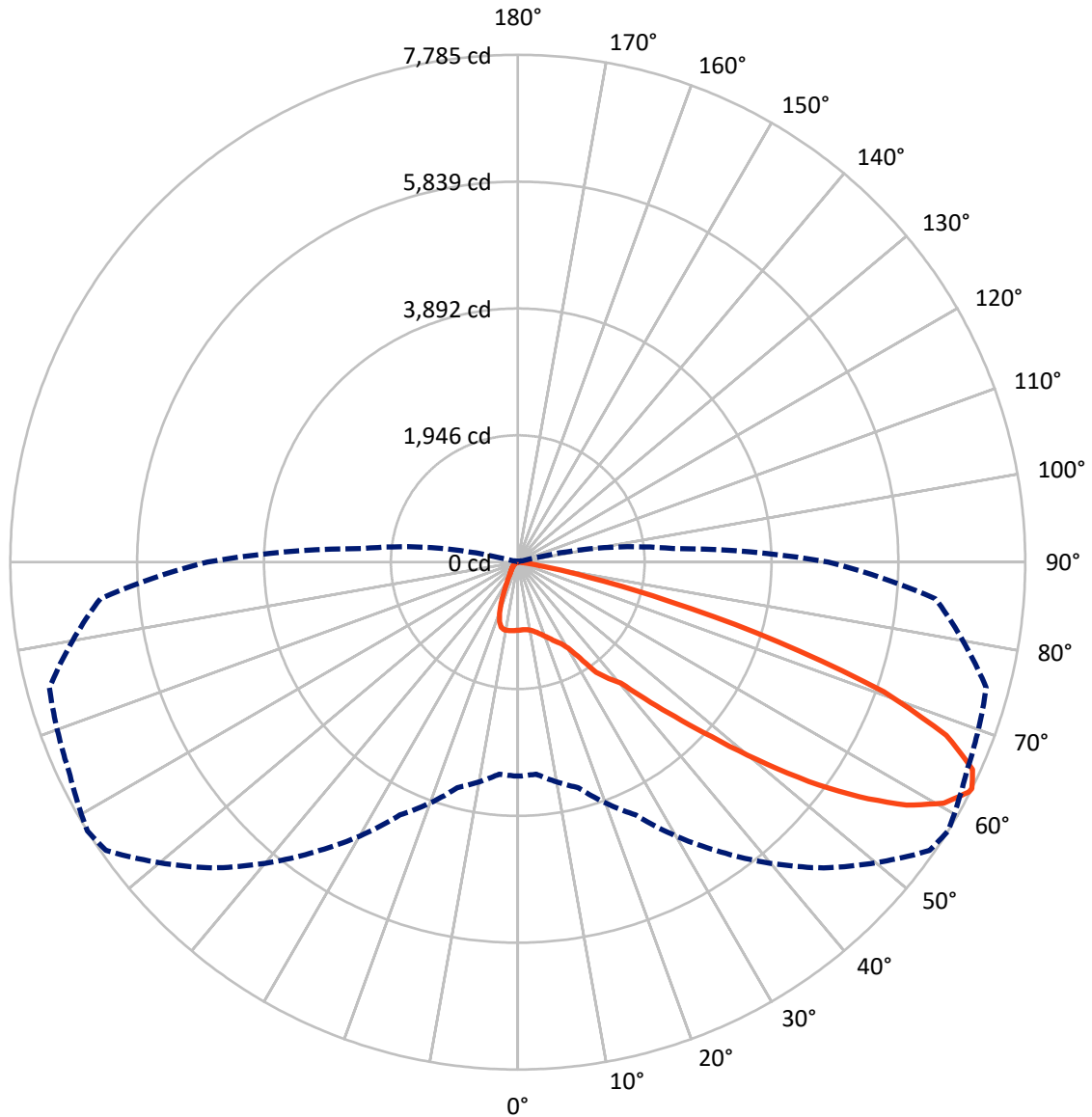
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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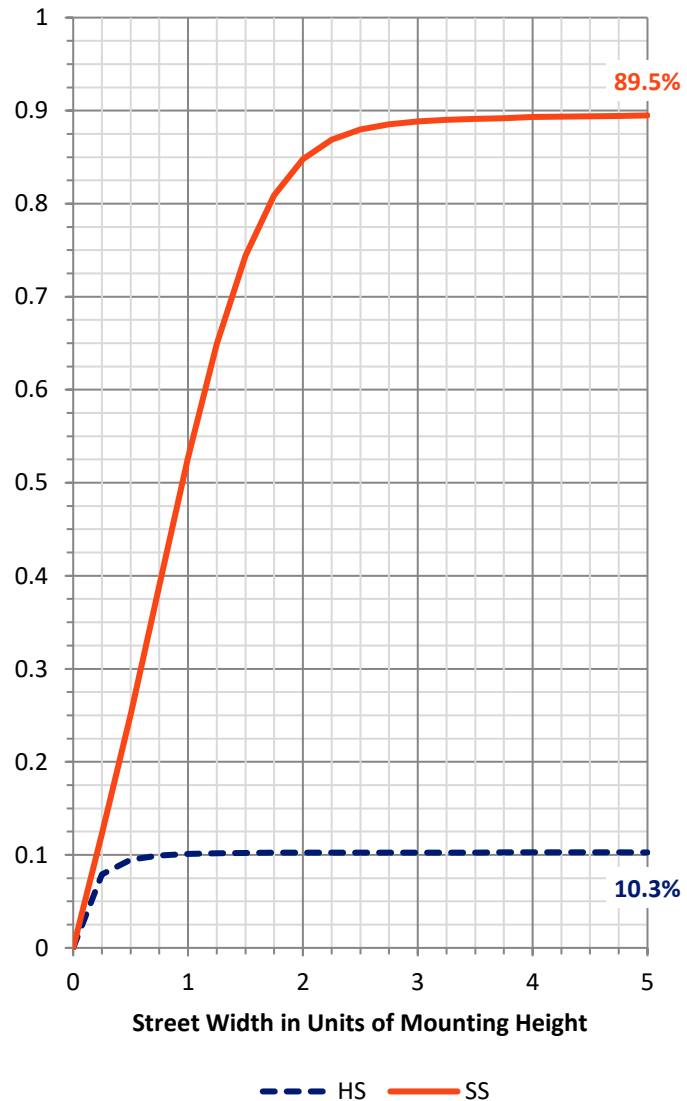
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	966.8	0.0	966.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	8370.2	0.0	8370.2
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	9337.0	0.0	9337.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.9	1.0
10°-20°	266.5	2.9
20°-30°	462.6	5.0
30°-40°	850.0	9.1
40°-50°	1600.1	17.1
50°-60°	2736.9	29.3
60°-70°	2620.6	28.1
70°-80°	668.3	7.2
80°-90°	34.2	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°	9337.0	100.0
0°-180°	9337.0	100.0



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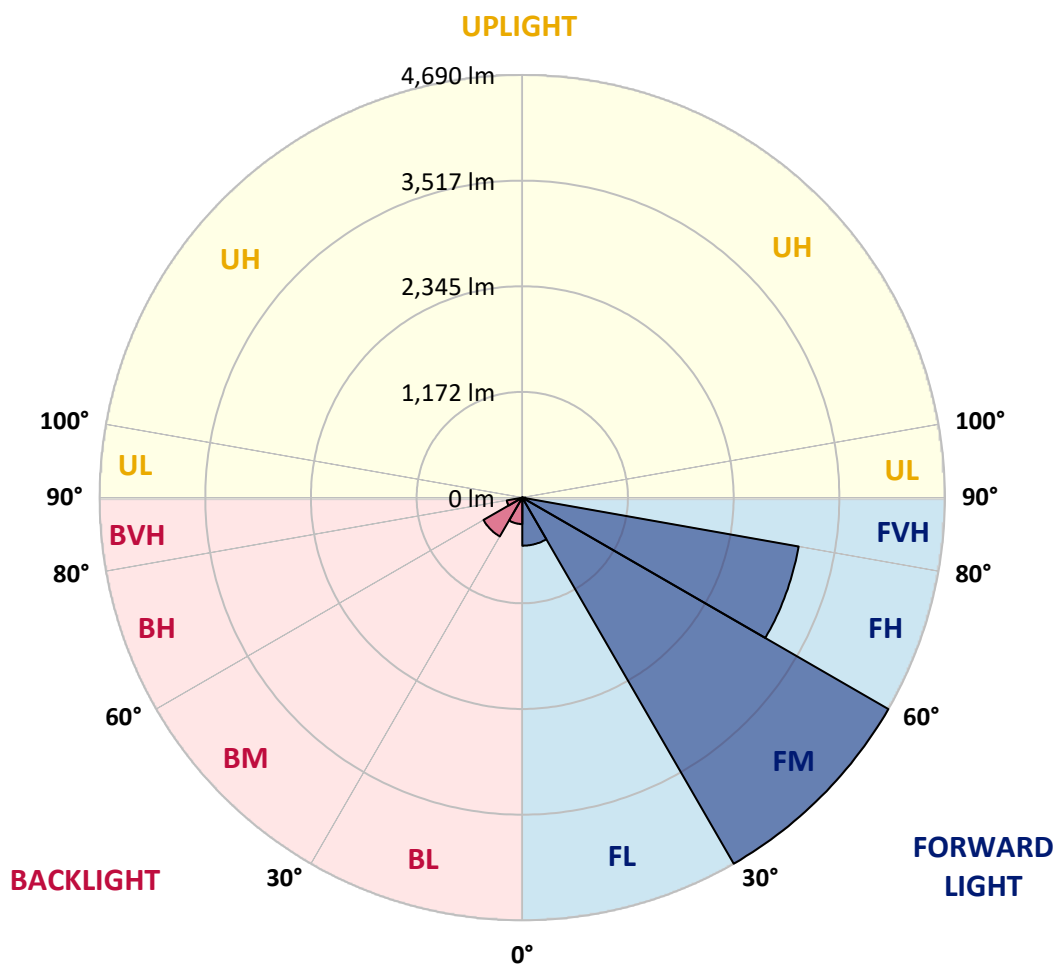
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.7	5.7			
FM (30°-60°)	4689.8	50.2			
FH (60°-80°)	3113.8	33.3			G2/5000
FVH (80°-90°)	32.8	0.4			G1/100
BL (0°-30°)	293.2	3.1	B1/500		
BM (30°-60°)	497.3	5.3	B1/1000		
BH (60°-80°)	175.0	1.9	B1/500		G1/500
BVH (80°-90°)	1.3	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°	58°	65°	75°	85°
0°	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3
2.5°	1019.3	1022.8	1026.3	1027.7	1032.7	1037.6	1041.1	1040.4	1046.0	1048.8	1048.8
5°	978.5	978.5	987.7	996.1	1010.2	1024.2	1037.6	1040.4	1050.9	1060.8	1064.3
7.5°	944.1	946.2	953.2	968.7	987.7	1012.3	1039.0	1045.3	1063.6	1085.4	1094.5
10°	927.9	929.3	938.5	954.6	978.5	1012.3	1049.5	1061.5	1089.6	1124.0	1136.7
12.5°	924.4	926.5	935.7	953.9	981.3	1022.1	1072.7	1085.4	1126.2	1170.4	1189.4
15°	930.7	932.1	941.3	961.0	991.2	1039.7	1103.7	1121.2	1169.7	1221.1	1245.7
17.5°	953.2	951.8	958.1	974.3	1008.1	1061.5	1140.9	1162.0	1218.9	1289.2	1305.4
20°	1048.8	1039.7	1034.1	1020.0	1033.4	1092.4	1185.9	1216.8	1287.1	1358.8	1370.1
22.5°	1254.8	1234.4	1194.3	1139.5	1097.3	1134.6	1240.0	1275.9	1366.6	1436.9	1436.9
25°	1517.0	1491.0	1450.9	1331.4	1228.1	1204.2	1301.2	1346.2	1453.0	1524.0	1500.8
27.5°	1845.3	1824.9	1746.9	1607.7	1449.5	1325.8	1372.2	1413.7	1529.7	1615.4	1566.9
30°	2112.4	2102.6	2038.6	1914.2	1739.8	1559.2	1504.4	1531.8	1631.6	1730.7	1680.8
32.5°	2338.1	2338.1	2272.7	2156.7	1993.6	1833.3	1728.6	1748.3	1843.9	1958.5	1865.7
35°	2586.2	2577.8	2525.1	2414.7	2231.9	2090.6	2047.7	2074.5	2160.9	2246.0	2017.5
37.5°	2847.0	2844.2	2789.4	2682.5	2533.5	2355.6	2255.1	2262.2	2306.4	2358.5	2195.4
40°	3130.3	3134.5	3062.8	2996.8	2856.2	2674.1	2481.5	2437.2	2478.7	2625.6	2523.7
42.5°	3464.9	3455.1	3424.2	3334.2	3221.0	3112.0	2880.8	2864.6	2901.1	3058.6	2948.2
45°	3853.7	3867.7	3814.3	3764.4	3688.5	3597.8	3404.5	3376.4	3416.4	3661.1	3504.3
47.5°	4243.1	4229.8	4264.2	4255.1	4295.8	4228.4	4057.5	3999.9	4096.2	4328.2	4097.6
50°	4539.8	4554.5	4626.2	4731.0	4906.0	4944.0	4780.2	4760.5	4803.4	4952.4	4628.3
52.5°	4732.4	4781.6	4894.1	5163.3	5478.9	5724.3	5599.8	5589.3	5571.7	5611.8	5135.9
55°	4858.2	4908.1	5055.0	5451.5	5994.9	6393.5	6399.8	6354.8	6238.8	6210.0	5610.4
57.5°	4780.9	4790.7	5000.2	5530.2	6281.0	6870.8	7077.5	7032.5	6818.1	6709.1	6029.4
60°	4297.2	4317.6	4609.4	5232.2	6156.6	7026.9	7526.7	7506.3	7271.5	7148.5	6355.5
62.5°	3440.3	3499.4	3799.5	4494.1	5578.1	6764.0	7708.7	7766.4	7583.6	7414.2	6458.2
63°	3282.9	3263.9	3580.9	4279.0	5424.8	6633.9	7711.6	7784.7	7597.7	7439.5	6430.0
65°	2430.2	2487.1	2693.1	3374.2	4514.5	6028.7	7537.9	7667.3	7545.7	7327.7	6118.6
67.5°	1364.5	1361.6	1589.4	2208.0	3159.8	4728.9	6816.0	7089.4	7064.1	6575.6	5071.9
70°	667.8	678.4	771.9	1144.4	1832.6	3262.5	5663.8	5959.1	5968.2	5164.7	3507.1
72.5°	302.3	307.2	374.0	557.5	942.0	1737.0	3902.9	4184.8	4132.7	3291.3	1936.7
75°	159.6	170.1	206.0	280.5	454.1	716.3	2123.0	2395.7	2286.8	1503.6	712.8
77.5°	118.1	121.6	139.9	178.6	243.2	279.1	916.0	1089.6	1020.7	544.1	236.2
80°	86.5	89.3	104.0	126.5	153.2	142.0	345.2	395.8	355.0	184.9	72.4
82.5°	52.7	53.4	75.9	94.2	96.3	79.4	113.9	122.3	127.9	104.0	39.4
85°	19.0	23.9	51.3	68.2	56.9	40.1	47.8	52.7	57.6	66.1	23.2
87.5°	2.1	2.8	24.6	33.0	16.2	14.8	17.6	19.7	21.1	24.6	11.2
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°	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3
2.5°	1051.6	1054.5	1052.3	1048.8	1048.1	1046.0	1041.8	1041.8	1041.8	1043.2	1041.8
5°	1067.1	1069.2	1064.3	1057.3	1049.5	1039.7	1029.1	1022.8	1022.1	1020.7	1017.2
7.5°	1096.6	1099.4	1088.2	1071.3	1050.2	1026.3	1003.8	982.7	972.9	965.2	965.2
10°	1139.5	1142.3	1119.8	1089.6	1047.4	998.9	945.5	897.0	859.0	841.5	837.2
12.5°	1190.8	1192.2	1155.0	1102.3	1032.7	939.2	825.3	719.1	645.3	611.6	608.1
15°	1247.1	1237.2	1188.0	1107.2	990.5	816.1	619.3	489.3	412.6	390.1	398.6
17.5°	1304.0	1285.7	1213.3	1099.4	895.6	619.3	416.2	333.9	310.0	303.7	303.7
20°	1357.4	1332.1	1231.6	1065.7	731.1	426.7	308.6	288.9	284.7	280.5	281.2
22.5°	1410.9	1372.2	1247.8	990.5	544.8	305.1	276.3	269.9	264.3	258.7	258.0
25°	1462.9	1409.5	1254.1	851.3	371.2	262.2	252.4	243.9	232.7	226.4	224.9
27.5°	1517.0	1454.4	1249.9	675.6	270.6	234.8	224.9	213.0	199.6	188.4	188.4
30°	1621.0	1540.2	1235.1	485.8	227.8	206.7	194.0	175.0	160.3	149.0	148.3
32.5°	1763.0	1652.0	1184.5	341.6	202.5	182.1	163.1	142.0	126.5	118.1	118.1
35°	1889.6	1764.4	1089.6	251.7	182.1	158.2	135.0	114.6	102.6	97.0	94.9
37.5°	2082.2	1928.9	958.8	204.6	162.4	137.1	113.2	94.2	84.4	80.1	80.1
40°	2371.1	2130.0	798.6	179.3	143.4	116.7	94.2	79.4	71.7	66.8	66.8
42.5°	2729.6	2376.0	636.2	161.0	125.8	100.5	78.7	67.5	60.5	56.9	56.2
45°	3180.9	2635.4	490.0	144.1	111.8	85.8	66.8	56.9	49.9	47.8	48.5
47.5°	3651.9	2863.9	379.6	129.3	97.0	72.4	56.9	49.2	44.3	41.5	41.5
50°	4054.0	3021.4	288.2	112.5	85.8	61.2	49.9	44.3	40.1	38.7	38.0
52.5°	4390.0	3067.0	220.7	97.7	75.2	52.7	44.3	40.1	36.6	34.4	34.4
55°	4676.1	3027.0	172.9	82.2	63.3	45.7	39.4	35.9	31.6	29.5	28.8
57.5°	4843.4	2898.3	132.2	68.2	51.3	38.0	34.4	30.2	25.3	21.8	21.8
60°	4927.8	2711.3	101.2	56.2	39.4	30.2	28.1	22.5	17.6	14.8	14.1
62.5°	4826.6	2463.2	76.6	44.3	29.5	22.5	19.0	16.2	11.2	8.4	8.4
63°	4764.0	2391.5	73.8	42.2	27.4	21.1	17.6	14.8	9.8	7.7	7.0
65°	4342.9	2078.7	60.5	33.7	21.8	14.8	12.0	10.5	7.0	3.5	2.8
67.5°	3448.8	1590.1	47.8	25.3	15.5	10.5	7.0	6.3	2.1	0.0	0.0
70°	2331.7	1027.0	37.3	18.3	10.5	6.3	3.5	2.8	0.7	0.0	0.0
72.5°	1216.1	526.5	28.8	13.4	6.3	4.2	2.1	0.7	0.0	0.0	0.0
75°	430.2	179.3	21.1	8.4	4.2	2.1	0.7	0.0	0.0	0.0	0.0
77.5°	130.0	66.8	13.4	6.3	2.8	1.4	0.0	0.0	0.0	0.0	0.0
80°	45.7	24.6	7.7	4.2	2.1	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	22.5	12.0	4.9	3.5	2.1	0.7	0.0	0.0	0.0	0.0	0.0
85°	12.7	7.7	4.2	3.5	2.1	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	5.6	4.2	3.5	2.8	1.4	0.7	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)