

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: P451599

Luminaire Tested: **GALN-SA2C-727-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451599  
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-SA2C-727-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA 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: 8839 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

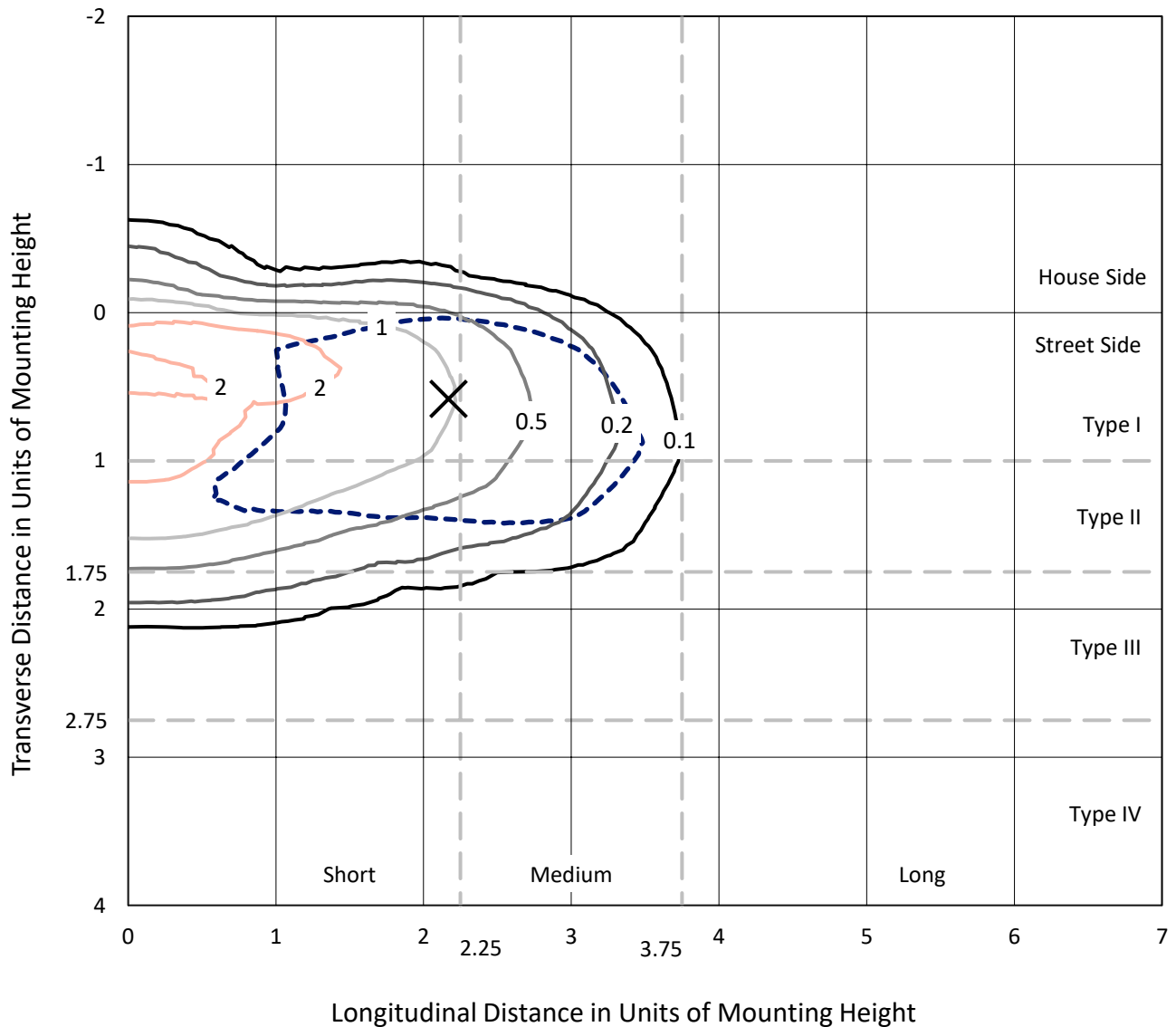
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

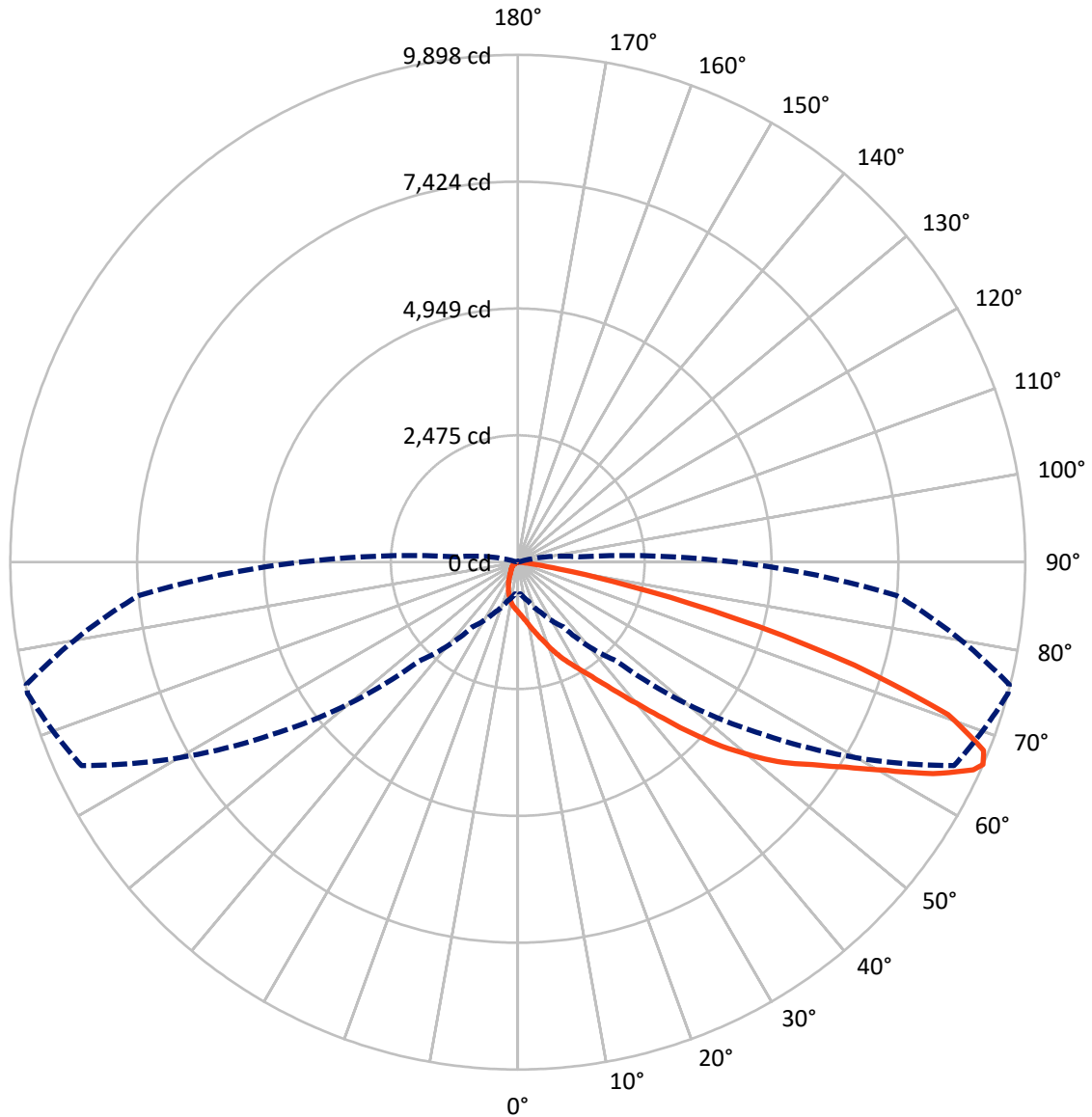
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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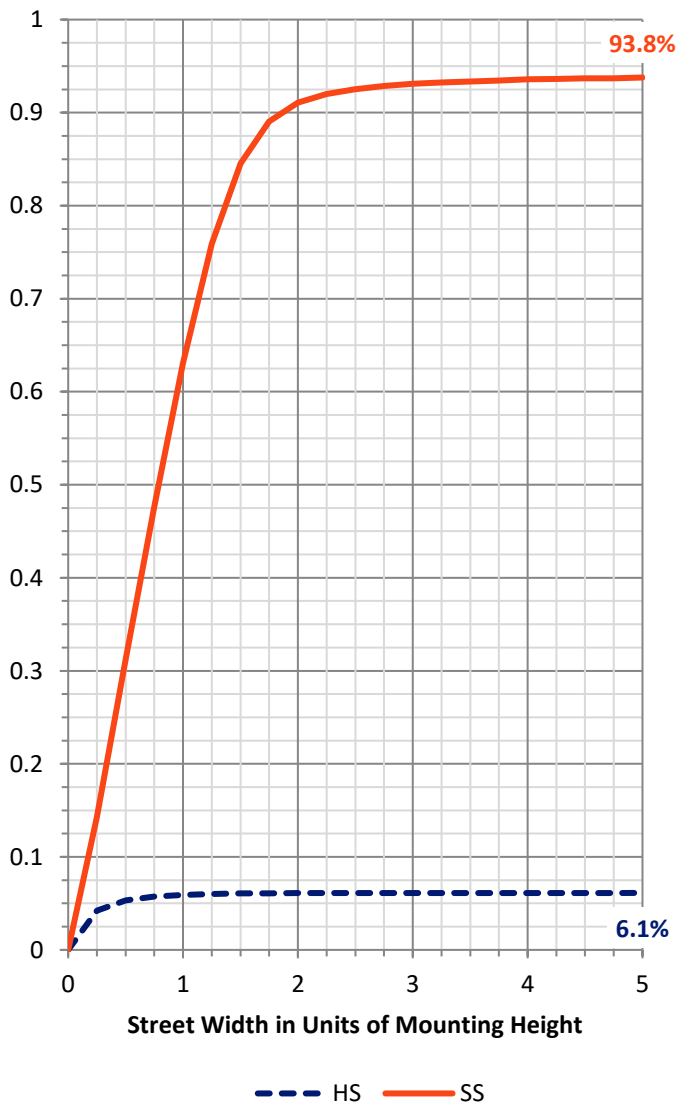
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	545.7	0.0	545.7
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	8293.3	0.0	8293.3
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	8839.0	0.0	8839.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.2	1.1
10°-20°	274.4	3.1
20°-30°	473.8	5.4
30°-40°	854.7	9.7
40°-50°	1544.0	17.5
50°-60°	2407.0	27.2
60°-70°	2286.6	25.9
70°-80°	857.0	9.7
80°-90°	48.4	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°	8839.0	100.0
0°-180°	8839.0	100.0

**Coefficient of Utilization**



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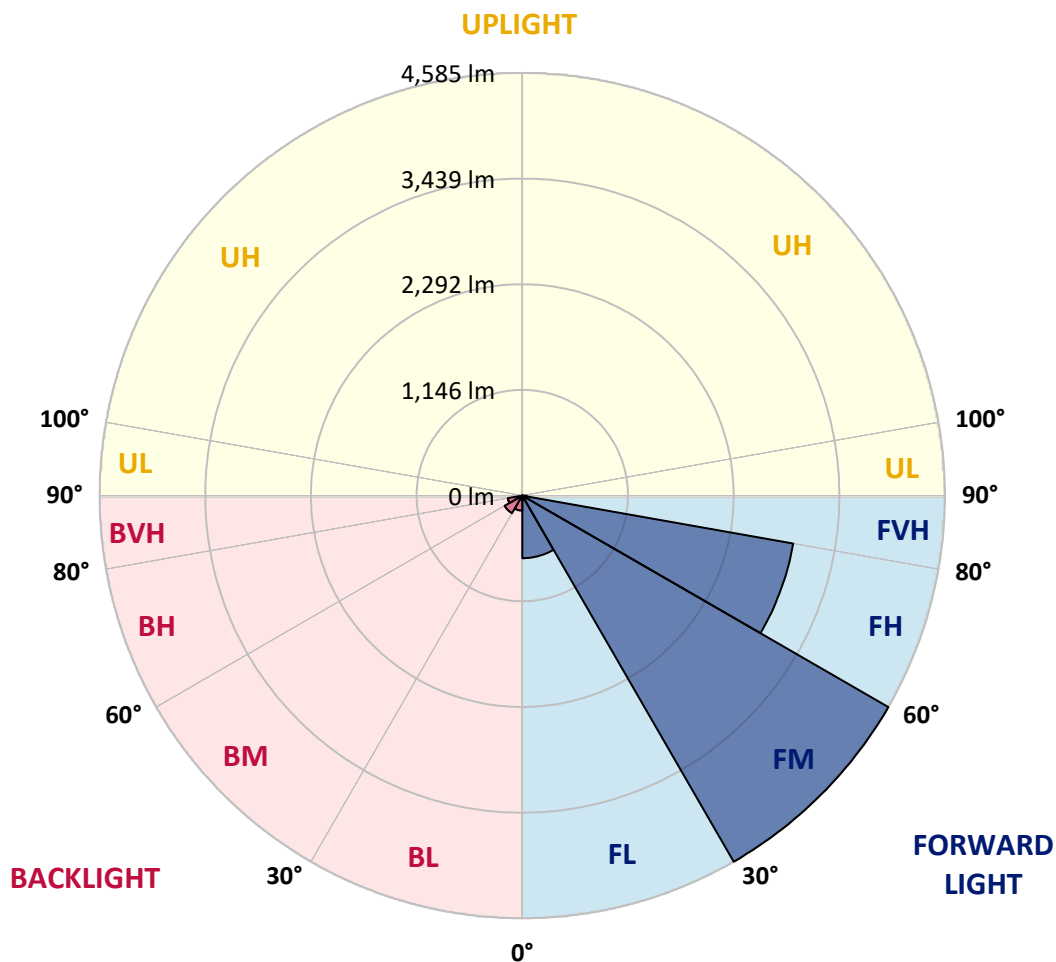
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	678.5	7.7			
FM (30°-60°)	4584.8	51.9			
FH (60°-80°)	2984.2	33.8			G2/5000
FVH (80°-90°)	45.9	0.5			G1/100
BL (0°-30°)	163.0	1.8	B1/500		
BM (30°-60°)	220.9	2.5	B1/1000		
BH (60°-80°)	159.3	1.8	B1/500		G1/500
BVH (80°-90°)	2.5	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°	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6
2.5°	1154.9	1140.5	1145.1	1138.5	1123.5	1101.3	1081.7	1053.6	1025.5	1020.9	989.5
5°	1307.1	1303.2	1298.0	1279.0	1268.6	1234.6	1194.1	1145.7	1087.5	1077.1	1020.2
7.5°	1411.1	1409.1	1411.7	1401.9	1392.8	1362.0	1318.9	1252.9	1162.7	1156.8	1062.1
10°	1445.0	1450.3	1460.1	1475.8	1490.1	1480.3	1447.7	1365.3	1260.1	1243.1	1109.8
12.5°	1425.4	1431.3	1454.8	1496.7	1543.1	1569.9	1556.8	1496.7	1363.3	1349.6	1163.4
15°	1375.1	1382.3	1415.6	1480.3	1563.3	1639.2	1671.8	1628.7	1483.6	1461.4	1228.1
17.5°	1300.6	1311.1	1358.8	1444.4	1558.1	1688.8	1781.0	1766.6	1611.7	1590.8	1298.6
20°	1244.4	1252.2	1292.8	1390.8	1535.9	1716.3	1884.9	1925.4	1769.9	1733.9	1381.6
22.5°	1281.7	1284.3	1298.0	1356.8	1496.0	1723.5	1976.4	2090.8	1937.8	1905.8	1467.9
25°	1464.0	1437.9	1424.1	1411.1	1487.5	1716.9	2059.4	2263.3	2105.2	2071.2	1553.5
27.5°	1751.6	1739.8	1670.5	1577.7	1560.1	1725.4	2114.3	2426.7	2262.7	2226.1	1637.2
30°	2064.6	2044.4	2001.9	1865.9	1729.3	1785.6	2154.2	2585.5	2448.9	2400.6	1713.7
32.5°	2352.2	2365.3	2301.9	2162.0	2003.8	1913.7	2205.8	2758.7	2662.6	2602.5	1802.5
35°	2687.5	2713.6	2616.2	2482.3	2297.3	2145.0	2306.5	2954.1	2933.9	2858.1	1939.8
37.5°	3028.0	3043.7	2984.2	2796.0	2629.3	2439.1	2496.0	3195.3	3267.9	3203.2	2103.8
40°	3314.3	3335.8	3292.0	3124.7	2947.0	2779.6	2771.1	3458.0	3665.2	3598.6	2348.3
42.5°	3533.2	3549.5	3550.9	3432.6	3272.4	3196.6	3122.1	3793.3	4163.2	4086.1	2631.9
45°	3809.7	3833.2	3819.5	3739.1	3619.5	3605.8	3567.2	4198.5	4759.3	4661.9	2999.9
47.5°	4237.1	4252.8	4218.8	4124.0	4002.5	4024.0	4001.2	4652.8	5367.1	5283.5	3380.9
50°	4533.8	4560.0	4608.3	4646.2	4558.0	4478.3	4410.3	5076.9	5944.2	5869.1	3770.5
52.5°	4530.6	4573.7	4726.6	4917.5	5110.3	5086.1	4890.7	5545.6	6495.2	6402.4	4136.5
55°	4225.3	4309.0	4533.8	4872.4	5406.3	5672.3	5583.5	6088.0	6971.0	6908.2	4560.6
57.5°	3595.3	3646.3	3958.7	4431.9	5241.0	5948.2	6386.0	6823.3	7541.6	7512.1	5219.4
60°	2418.2	2441.1	2843.0	3428.0	4461.9	5673.0	6974.3	7712.8	8244.1	8229.8	5988.7
62.5°	1385.6	1395.4	1686.9	2180.3	3175.0	4807.7	7023.9	8810.1	9086.6	9094.4	6878.8
65°	745.7	751.0	986.2	1279.7	1932.0	3426.7	6316.1	9411.4	9767.6	9782.7	7430.5
66°	643.8	618.9	784.9	1090.8	1537.2	2727.4	5868.4	9389.9	9898.3	9882.0	7410.8
67.5°	489.5	511.7	626.8	838.5	1139.2	1939.1	4844.9	8972.2	9799.0	9748.0	7109.5
70°	350.3	359.5	446.4	598.0	775.8	1064.0	3096.0	7452.0	8906.2	8837.6	6193.9
72.5°	226.1	235.9	316.3	432.7	560.8	581.0	1733.3	5384.1	6866.4	6856.6	4664.5
75°	161.4	170.6	209.1	309.8	421.6	359.5	834.6	3628.6	4365.2	4335.8	2885.5
77.5°	117.0	121.6	139.9	202.6	301.3	257.5	386.9	1937.8	2173.1	2275.7	1275.1
80°	67.3	71.2	97.4	123.5	203.9	175.8	185.0	777.7	801.9	763.4	398.7
82.5°	33.3	37.9	58.2	84.3	127.4	118.3	85.0	234.0	247.0	240.5	100.6
85°	7.8	9.8	32.7	55.6	62.1	52.9	41.2	68.6	85.0	83.0	38.6
87.5°	0.7	1.3	11.8	9.8	10.5	17.6	14.4	17.6	27.4	25.5	13.7
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°	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6
2.5°	975.1	962.7	926.8	891.5	862.1	831.3	803.2	786.9	780.4	773.2	776.4
5°	988.9	958.8	886.2	823.5	762.1	709.8	667.9	641.2	628.1	626.1	622.9
7.5°	1007.2	955.5	843.1	745.1	664.7	606.5	558.8	520.2	508.5	498.0	489.5
10°	1029.4	949.6	789.5	662.7	577.1	503.9	441.2	395.4	371.9	365.3	369.9
12.5°	1052.9	938.5	733.3	586.9	488.2	394.8	336.6	313.7	307.2	304.6	305.2
15°	1076.4	924.8	674.5	513.7	388.9	315.0	288.2	282.3	279.7	278.4	277.1
17.5°	1098.0	902.6	608.5	442.5	315.0	269.3	259.5	254.2	249.0	247.0	243.8
20°	1123.5	877.1	549.0	362.7	266.7	243.8	232.0	222.2	214.4	209.1	208.5
22.5°	1147.7	844.4	486.9	300.6	243.1	218.9	200.0	189.5	180.4	173.8	175.8
25°	1160.7	804.5	431.4	262.1	221.6	194.1	173.2	160.1	150.3	147.1	146.4
27.5°	1160.7	755.5	377.1	239.9	202.0	171.9	150.3	137.9	131.4	126.8	127.4
30°	1151.6	701.3	326.8	222.9	185.0	152.3	132.0	120.9	115.7	112.4	111.8
32.5°	1144.4	649.6	283.6	206.5	167.3	135.3	117.6	109.1	103.9	100.6	100.6
35°	1155.5	605.2	250.3	190.2	151.0	122.2	106.5	98.7	93.5	90.8	90.2
37.5°	1184.9	564.7	224.8	172.5	135.9	111.1	98.7	89.5	84.3	81.0	79.7
40°	1257.5	541.8	205.9	156.2	121.6	102.0	89.5	81.0	74.5	71.2	70.6
42.5°	1373.8	542.5	187.6	141.2	110.5	94.1	81.7	71.9	64.7	61.4	60.8
45°	1549.0	567.3	173.2	126.8	100.6	85.6	73.2	62.7	56.2	52.9	52.9
47.5°	1758.8	615.7	160.8	114.4	91.5	77.8	64.7	54.2	47.7	45.1	45.1
50°	1986.2	678.4	148.4	101.3	83.7	69.3	55.6	47.1	41.8	39.9	39.9
52.5°	2218.2	754.2	135.9	90.8	75.2	60.1	47.7	41.8	37.3	35.9	35.3
55°	2522.8	850.9	122.9	79.7	66.0	51.6	42.5	36.6	31.4	29.4	28.8
57.5°	2991.4	996.7	108.5	69.9	54.2	43.1	36.6	30.7	24.8	21.6	20.9
60°	3556.7	1174.5	93.5	61.4	43.8	35.3	29.4	23.5	18.3	14.4	13.7
62.5°	4086.1	1287.5	79.1	51.6	34.6	26.8	20.9	17.6	13.1	9.1	8.5
65°	4320.1	1249.6	65.4	41.8	27.4	19.0	13.7	12.4	7.8	3.9	3.3
66°	4242.3	1193.4	60.1	37.9	24.8	16.3	11.8	10.5	5.9	2.0	2.0
67.5°	4012.9	1060.7	52.3	32.7	21.6	13.1	9.1	7.8	3.3	0.7	0.0
70°	3438.4	858.1	41.2	24.2	15.7	9.1	5.2	3.9	2.0	0.0	0.0
72.5°	2641.1	639.2	32.7	18.3	11.1	5.2	2.6	1.3	2.0	0.0	0.0
75°	1618.2	365.3	25.5	13.7	7.2	3.3	2.0	0.0	2.0	0.7	0.0
77.5°	718.3	164.0	17.0	9.1	5.2	2.6	1.3	0.0	1.3	0.7	0.0
80°	181.7	53.6	9.8	6.5	3.9	2.0	0.7	0.0	1.3	1.3	0.7
82.5°	49.7	19.6	7.2	5.2	3.3	2.0	0.7	0.0	1.3	1.3	1.3
85°	19.6	9.1	6.5	5.2	3.9	2.0	0.7	0.0	1.3	1.3	1.3
87.5°	9.1	6.5	6.5	5.9	4.6	2.0	0.7	0.0	1.3	0.7	1.3
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)