

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: P455320

Luminaire Tested: **GALN-SA6C-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34789 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

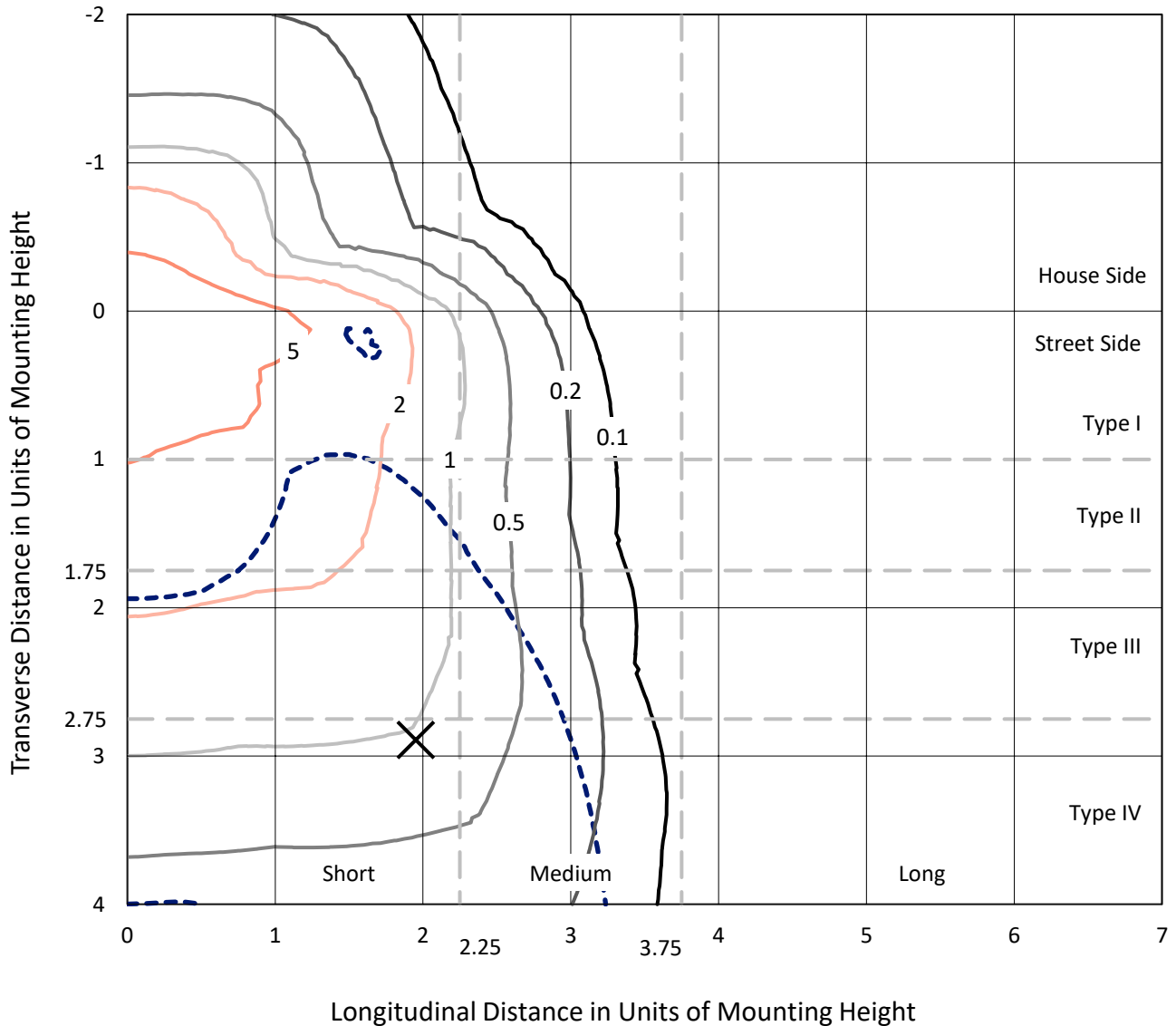
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

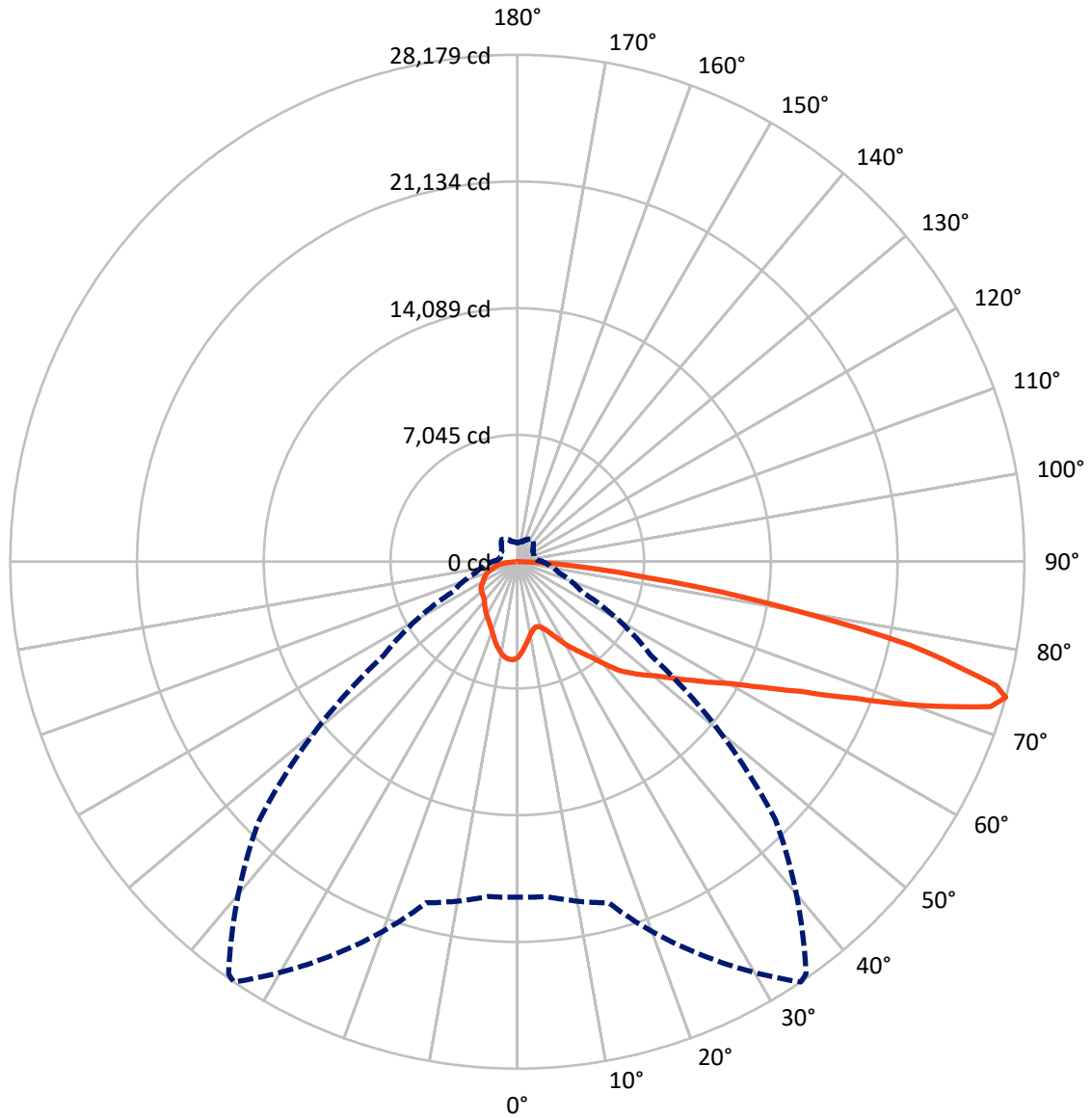
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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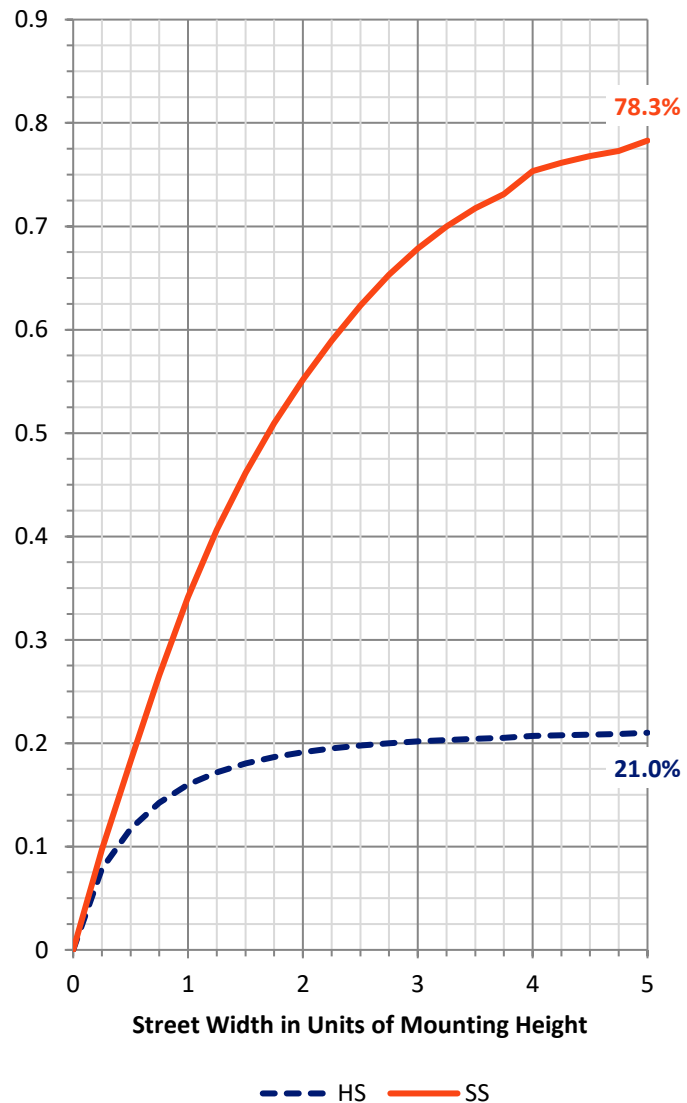
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7403.3	0.0	7403.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	27385.6	0.0	27385.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	34789.0	0.0	34789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.1	1.4
10°-20°	1322.4	3.8
20°-30°	2180.3	6.3
30°-40°	3265.8	9.4
40°-50°	4747.5	13.6
50°-60°	6631.2	19.1
60°-70°	8301.9	23.9
70°-80°	6865.0	19.7
80°-90°	991.9	2.9
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°	34789.0	100.0
0°-180°	34789.0	100.0

Coefficient of Utilization



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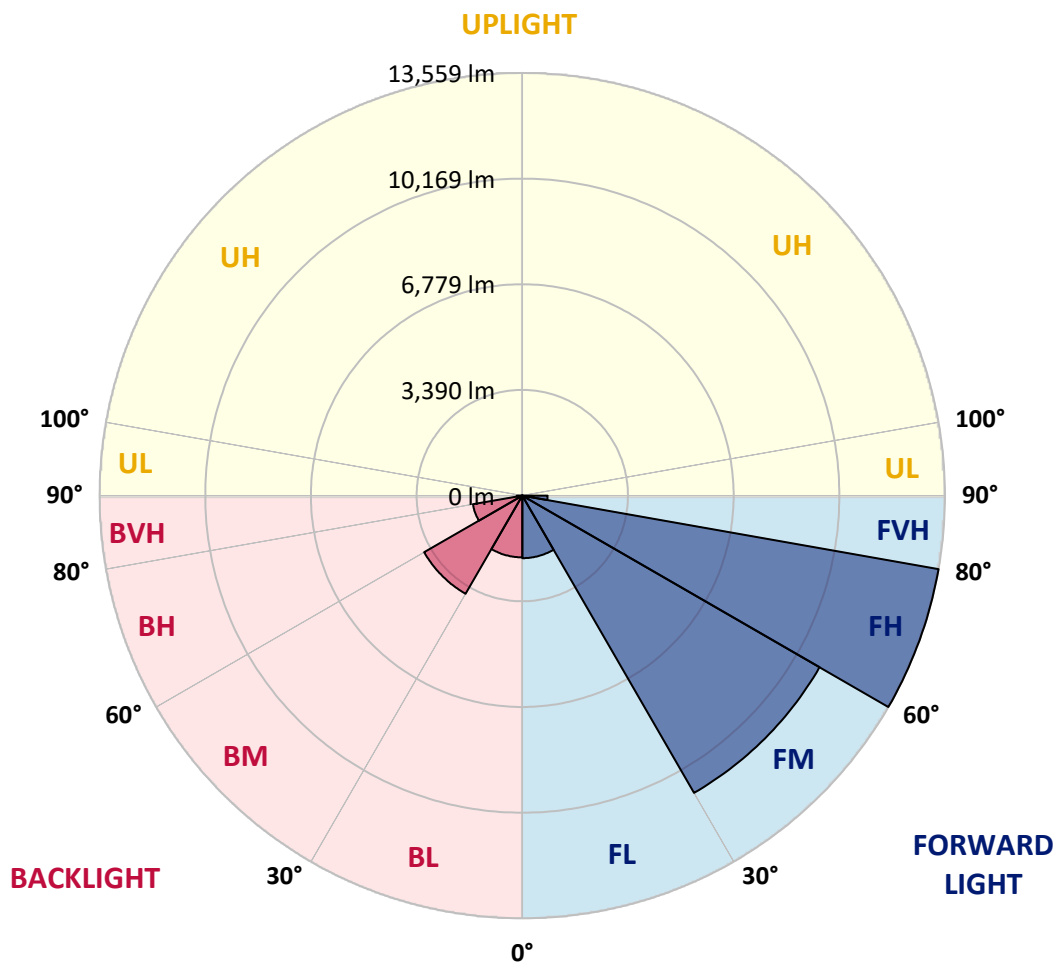
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2005.4	5.8			
FM	(30°-60°)	11008.7	31.6			
FH	(60°-80°)	13558.9	39.0			G5
FVH	(80°-90°)	812.6	2.3			G5
BL	(0°-30°)	1980.3	5.7	B3/2500		
BM	(30°-60°)	3635.8	10.5	B3/5000		
BH	(60°-80°)	1608.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	179.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6
2.5°	4908.8	4933.8	4947.3	4995.5	5007.1	5022.5	5063.0	5116.9	5186.3	5248.0	5302.0
5°	4500.2	4538.8	4561.9	4604.3	4687.2	4694.9	4802.8	4926.1	5066.8	5197.9	5305.8
7.5°	4112.8	4155.2	4174.5	4251.6	4361.4	4378.8	4536.8	4731.5	4966.6	5165.1	5330.9
10°	3821.8	3843.0	3885.4	3943.2	4074.3	4085.8	4292.1	4552.2	4856.8	5149.7	5373.3
12.5°	3663.8	3675.3	3685.0	3746.6	3875.8	3893.1	4109.0	4403.8	4770.0	5161.3	5442.6
15°	3686.9	3690.7	3648.3	3659.9	3764.0	3789.0	4003.0	4305.6	4716.1	5190.2	5546.7
17.5°	3881.5	3868.1	3764.0	3710.0	3783.3	3794.8	3981.8	4267.0	4691.0	5244.1	5654.6
20°	4188.0	4168.7	3989.5	3870.0	3912.4	3922.0	4051.1	4295.9	4716.1	5332.8	5822.3
22.5°	4569.6	4561.9	4290.1	4145.6	4143.7	4143.7	4211.1	4400.0	4791.2	5454.2	5997.7
25°	5103.4	5063.0	4708.4	4521.4	4469.4	4465.5	4457.8	4571.5	4887.6	5583.3	6205.9
27.5°	5650.8	5581.4	5265.3	4978.2	4866.4	4852.9	4802.8	4814.4	5010.9	5729.8	6442.9
30°	6142.3	6097.9	5801.1	5483.1	5350.1	5319.3	5180.5	5116.9	5217.2	5993.9	6820.7
32.5°	6518.1	6491.1	6259.8	5970.7	5774.1	5768.4	5566.0	5514.0	5539.0	6313.8	7252.4
35°	6822.6	6832.2	6714.7	6464.1	6238.6	6205.9	6070.9	6005.4	5932.2	6776.3	7795.9
37.5°	7238.9	7260.1	7252.4	7036.5	6760.9	6768.6	6737.8	6629.9	6435.2	7292.8	8399.1
40°	7697.6	7713.0	7711.1	7628.2	7483.6	7491.3	7479.8	7356.4	7065.4	7950.0	9069.8
42.5°	8331.6	8258.4	8067.6	8150.5	8235.3	8271.9	8350.9	8233.4	7834.4	8651.6	9700.0
45°	9040.9	8902.1	8470.4	8509.0	8823.1	8892.5	9328.1	9166.2	8668.9	9457.2	10442.0
47.5°	9488.0	9351.2	8986.9	8979.2	9395.5	9463.0	10233.9	10174.1	9428.3	10326.4	11347.8
50°	9887.0	9867.7	9457.2	9555.5	9962.1	10062.3	11220.6	11164.8	10185.7	11351.7	12334.6
52.5°	10478.6	10322.5	9994.9	10197.3	10735.0	10866.0	12199.7	12035.9	10881.4	12257.5	13292.5
55°	10744.6	10708.0	10688.7	10864.1	11602.2	11696.7	13151.8	12776.0	11475.0	13024.6	14021.0
57.5°	11455.8	11388.3	11579.1	11698.6	12623.7	12768.3	14146.3	13548.8	11995.4	13633.6	14375.6
60°	12377.0	12340.4	12515.8	12731.6	13764.7	13984.4	15279.5	14207.9	12413.6	13940.0	14180.9
62.5°	13753.1	13749.2	13716.5	14179.0	15381.6	15584.0	16580.4	14849.7	12479.2	13710.7	13174.9
65°	15726.6	15657.2	15372.0	15877.0	17393.7	17630.8	17935.3	15208.2	12084.1	12533.1	11093.4
67.5°	17790.8	17786.9	17555.6	18210.9	20282.7	20527.5	19629.4	15129.2	10987.4	10152.9	7878.7
70°	19502.2	19419.3	19714.2	21460.3	23973.5	24256.8	21111.5	14198.3	8751.8	6705.0	4681.4
72.5°	19912.7	19916.5	20529.4	23965.8	27517.7	27562.1	21645.3	11507.8	5857.0	3698.5	2341.6
74°	18648.4	18681.2	19631.3	24091.0	28178.8	27978.4	20280.8	9044.7	3960.6	2414.9	1688.3
75°	17021.8	16815.5	18189.7	23256.5	27492.7	27276.8	18683.1	7258.1	3022.0	1929.2	1478.2
77.5°	9100.6	9310.7	11430.7	17355.2	22335.3	22086.7	12668.0	3480.7	1632.4	1343.3	1063.9
80°	3239.8	3573.2	5022.5	9081.4	14319.7	14396.8	6045.9	1595.8	1148.7	990.6	751.6
82.5°	1322.1	1358.7	2156.6	4029.9	7271.6	7341.0	2468.8	948.2	821.0	682.3	449.1
85°	516.5	531.9	954.0	1811.6	3102.9	3305.3	853.8	501.1	504.9	391.2	229.3
87.5°	173.5	196.6	391.2	603.2	1054.2	1033.0	248.6	148.4	181.2	169.6	71.3
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°	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6	5311.6
2.5°	5328.9	5365.6	5390.6	5417.6	5442.6	5450.4	5444.6	5461.9	5463.8	5465.8	5467.7
5°	5359.8	5409.9	5458.1	5485.0	5496.6	5487.0	5454.2	5436.9	5421.4	5409.9	5413.7
7.5°	5402.2	5473.5	5517.8	5529.4	5498.5	5454.2	5373.3	5309.7	5269.2	5242.2	5240.3
10°	5467.7	5537.1	5573.7	5540.9	5456.1	5348.2	5221.0	5101.5	5010.9	4984.0	4982.0
12.5°	5550.6	5629.6	5627.7	5531.3	5382.9	5190.2	4984.0	4845.2	4721.8	4660.2	4685.2
15°	5658.5	5718.2	5662.4	5488.9	5253.8	4989.7	4735.3	4546.5	4407.7	4342.2	4346.0
17.5°	5783.8	5835.8	5687.4	5413.7	5072.6	4733.4	4438.5	4259.3	4149.4	4101.3	4097.4
20°	5939.9	5955.3	5687.4	5282.7	4839.4	4434.7	4153.3	4028.0	3966.3	3941.3	3949.0
22.5°	6107.6	6076.7	5656.6	5097.7	4533.0	4122.5	3933.6	3877.7	3846.9	3843.0	3846.9
25°	6296.4	6209.7	5593.0	4847.1	4213.0	3852.6	3742.8	3752.4	3758.2	3758.2	3771.7
27.5°	6527.7	6354.3	5487.0	4531.0	3839.1	3602.1	3571.3	3638.7	3669.5	3675.3	3685.0
30°	6832.2	6512.3	5311.6	4135.9	3521.1	3376.6	3430.6	3521.1	3555.8	3577.0	3573.2
32.5°	7194.5	6685.7	5074.5	3740.9	3264.8	3218.6	3284.1	3376.6	3415.1	3426.7	3411.3
35°	7620.5	6882.3	4762.3	3370.8	3041.3	3068.2	3145.3	3174.2	3208.9	3208.9	3216.6
37.5°	8079.2	7040.4	4380.7	3031.6	2867.8	2966.1	3022.0	2995.0	2979.6	2960.3	2969.9
40°	8545.6	7157.9	3885.4	2696.3	2694.3	2860.1	2875.5	2798.4	2736.7	2717.5	2707.8
42.5°	8952.2	7231.2	3438.3	2436.1	2530.5	2756.0	2767.6	2644.2	2545.9	2488.1	2468.8
45°	9432.1	7316.0	3000.8	2220.2	2378.3	2673.1	2702.1	2536.3	2391.8	2270.3	2239.5
47.5°	10089.3	7508.7	2655.8	2052.6	2268.4	2621.1	2661.6	2447.6	2256.8	2098.8	2073.8
50°	10831.3	7772.7	2387.9	1938.8	2183.6	2574.9	2625.0	2357.1	2131.6	1956.2	1936.9
52.5°	11511.7	7915.4	2156.6	1836.7	2100.7	2490.0	2576.8	2291.5	2008.2	1813.6	1796.2
55°	11883.6	7684.1	1929.2	1736.5	1987.0	2380.2	2509.3	2201.0	1888.7	1738.4	1713.4
57.5°	11933.7	7206.1	1723.0	1628.6	1867.5	2245.3	2384.0	2091.1	1811.6	1686.4	1665.2
60°	11546.4	6493.0	1563.0	1539.9	1746.1	2093.0	2243.4	1994.7	1732.6	1628.6	1607.4
62.5°	10582.7	5718.2	1451.2	1459.0	1622.8	1933.1	2139.3	1902.2	1657.5	1565.0	1545.7
65°	8925.2	4719.9	1343.3	1376.1	1512.9	1807.8	2044.8	1825.1	1582.3	1516.8	1499.4
67.5°	6200.1	3407.4	1254.7	1289.4	1408.8	1680.6	1935.0	1742.3	1497.5	1462.8	1435.8
70°	3432.5	2096.9	1150.6	1191.1	1300.9	1538.0	1811.6	1617.0	1374.2	1358.7	1320.2
72.5°	1803.9	1335.6	1033.0	1077.4	1154.4	1354.9	1622.8	1480.2	1252.7	1187.2	1137.1
74°	1408.8	1094.7	954.0	1000.3	1052.3	1247.0	1511.0	1381.9	1166.0	1088.9	1050.4
75°	1227.7	975.2	886.6	946.3	992.6	1173.7	1424.3	1312.5	1117.8	1044.6	1009.9
77.5°	867.3	730.4	724.7	796.0	821.0	1029.2	1283.6	1194.9	996.4	919.3	886.6
80°	609.0	547.3	574.3	618.7	653.3	909.7	1191.1	1033.0	817.2	726.6	715.0
82.5°	397.0	358.5	410.5	451.0	462.5	670.7	961.7	784.4	595.5	483.7	449.1
85°	183.1	179.2	235.1	229.3	227.4	327.6	570.5	458.7	343.1	256.3	240.9
87.5°	46.3	44.3	57.8	48.2	57.8	50.1	52.0	13.5	1.9	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)