

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: P455608

Luminaire Tested: **GALN-SA6D-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46944 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

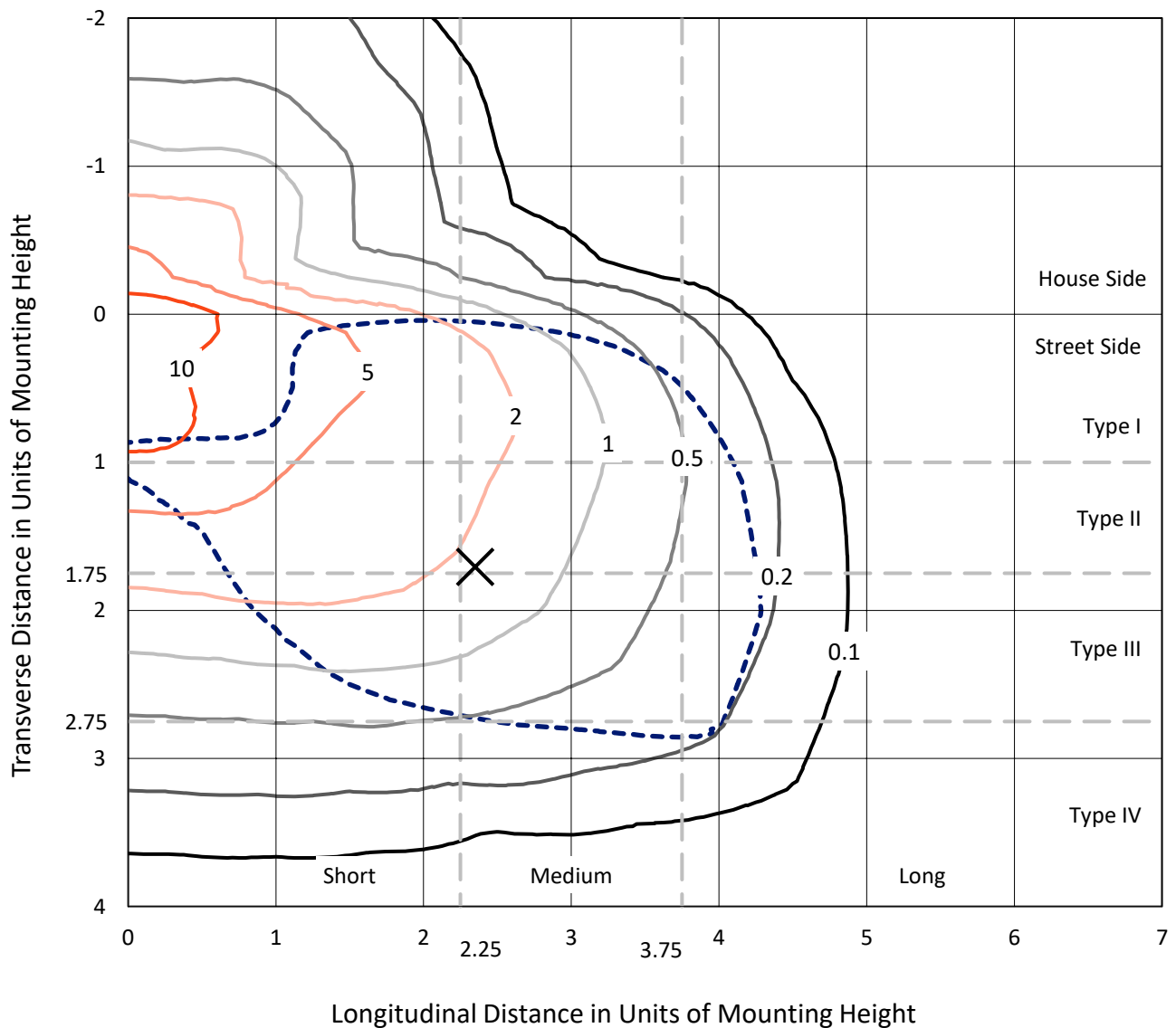
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

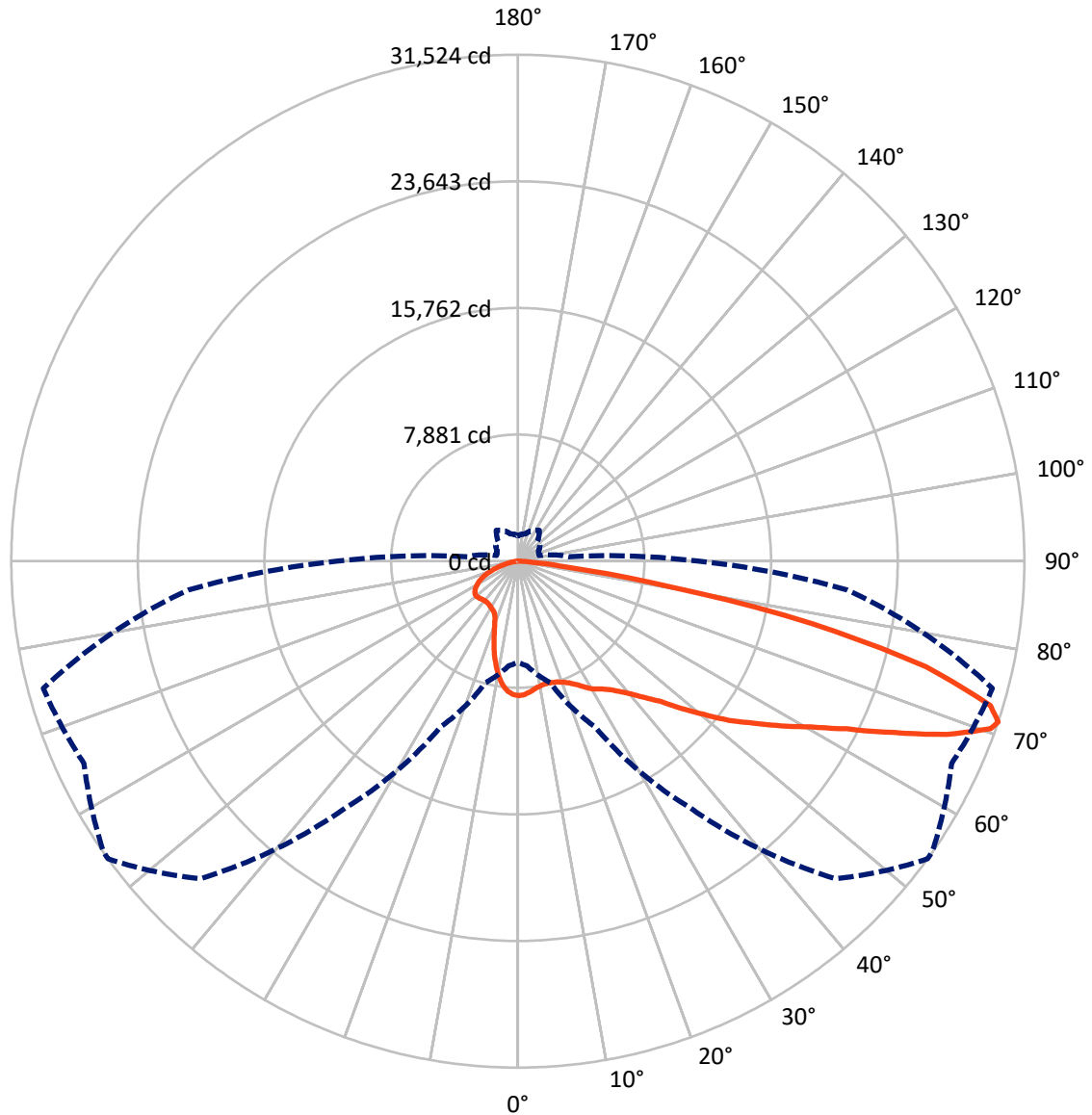
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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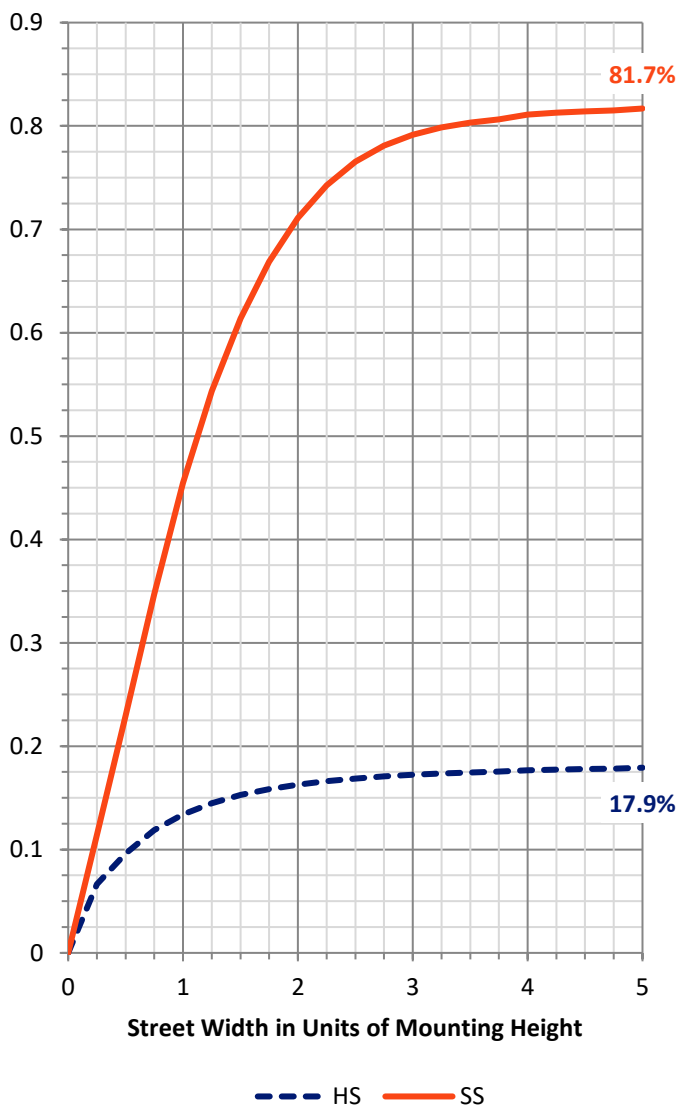
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8475.4	0.0	8475.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	38468.6	0.0	38468.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	46944.0	0.0	46944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.4	1.6
10°-20°	1970.8	4.2
20°-30°	3281.5	7.0
30°-40°	4852.3	10.3
40°-50°	6834.6	14.6
50°-60°	9151.8	19.5
60°-70°	11535.2	24.6
70°-80°	7878.5	16.8
80°-90°	692.9	1.5
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°	46944.0	100.0
0°-180°	46944.0	100.0

Coefficient of Utilization



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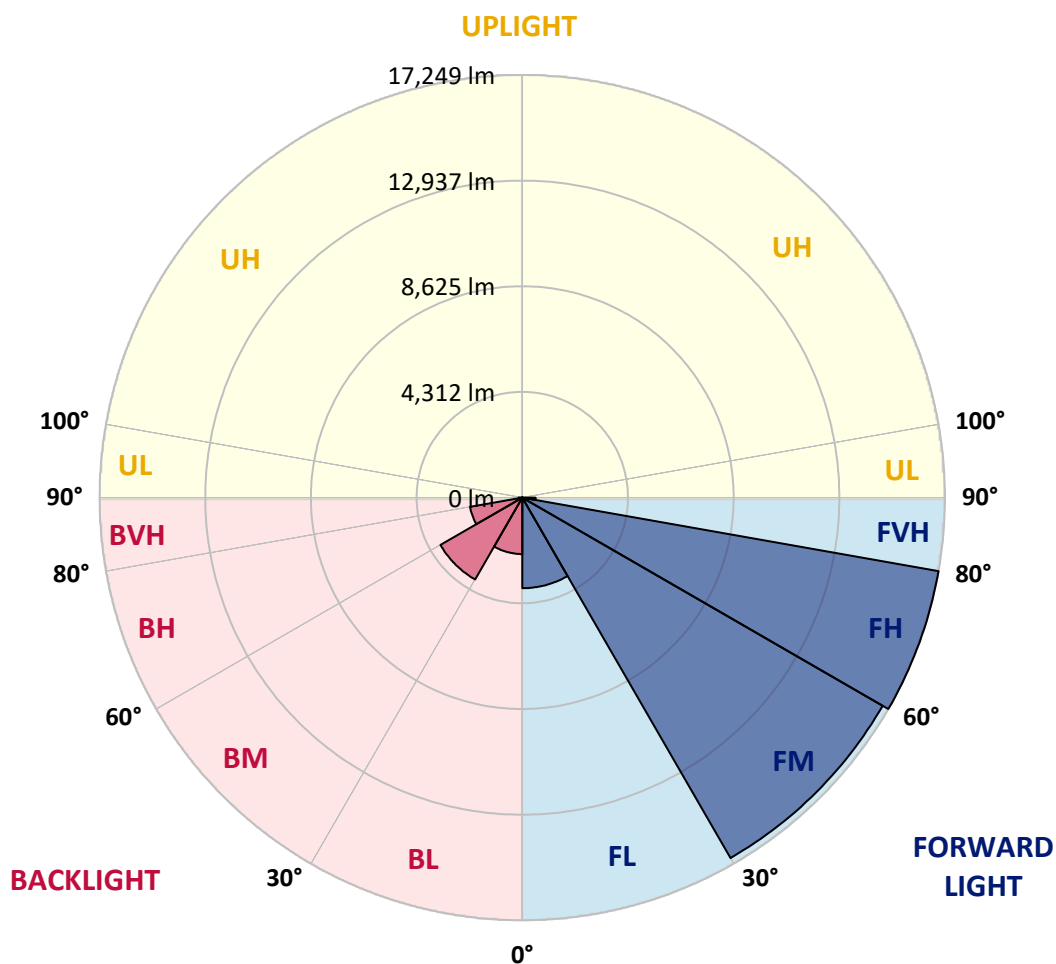
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3695.3	7.9			
FM	(30°-60°)	16982.6	36.2			
FH	(60°-80°)	17249.1	36.7			G5
FVH	(80°-90°)	541.6	1.2			G4/750
BL	(0°-30°)	2303.5	4.9	B3/2500		
BM	(30°-60°)	3856.1	8.2	B3/5000		
BH	(60°-80°)	2164.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	151.3	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5
2.5°	8091.5	8129.5	8139.7	8165.0	8218.3	8261.4	8304.5	8299.4	8360.3	8385.6	8408.5
5°	7731.4	7741.6	7779.6	7830.3	7924.1	8043.3	8160.0	8162.5	8312.1	8431.3	8489.6
7.5°	7467.7	7500.7	7526.0	7579.3	7678.2	7807.5	7992.6	8007.8	8274.1	8509.9	8634.1
10°	7295.3	7333.3	7361.2	7427.1	7526.0	7670.6	7870.9	7898.8	8246.2	8634.1	8852.2
12.5°	7138.1	7176.1	7201.5	7287.7	7417.0	7594.5	7820.2	7853.1	8256.3	8778.7	9090.6
15°	7234.4	7264.9	7254.7	7280.1	7366.3	7569.1	7840.5	7873.4	8294.4	8918.2	9326.4
17.5°	7663.0	7688.3	7604.6	7508.3	7467.7	7617.3	7903.9	7939.4	8370.4	9062.7	9567.3
20°	8294.4	8362.8	8180.3	7964.7	7769.5	7789.8	8035.7	8073.8	8476.9	9207.2	9813.3
22.5°	9115.9	9166.7	8943.5	8588.5	8228.4	8043.3	8233.5	8256.3	8636.7	9394.9	10082.0
25°	10082.0	10112.5	9803.1	9346.7	8826.9	8476.9	8504.8	8545.4	8900.4	9607.9	10320.4
27.5°	11020.3	11116.6	10759.1	10201.2	9516.6	8933.4	8877.6	8902.9	9186.9	9727.0	10485.2
30°	12133.5	12125.8	11748.0	11101.4	10224.0	9430.4	9230.0	9225.0	9341.6	9785.4	10604.4
32.5°	13021.0	13124.9	12754.7	12049.8	11032.9	9945.1	9473.5	9463.3	9460.8	9886.8	10781.9
35°	14030.2	14045.4	13705.6	12995.6	11907.8	10591.7	9813.3	9762.5	9704.2	10104.9	11022.8
37.5°	14932.9	15003.9	14692.0	13895.8	12767.4	11263.7	10279.8	10246.9	10069.4	10482.7	11408.2
40°	15637.8	15691.1	15503.4	14745.2	13614.3	11988.9	10873.2	10812.3	10596.8	11101.4	11923.0
42.5°	15868.6	15977.6	16051.1	15678.4	14588.0	12848.5	11603.5	11527.4	11362.6	12039.6	12516.3
45°	15886.3	16058.8	16446.7	16464.5	15566.8	13878.0	12455.5	12402.2	12389.6	13241.6	13350.6
47.5°	15751.9	15926.9	16578.6	16931.0	16439.1	14917.7	13685.3	13601.6	13609.2	14727.5	14286.3
50°	15427.4	15635.3	16426.4	17230.3	17121.2	15997.9	14983.6	14955.7	15112.9	16423.9	15257.5
52.5°	14816.3	15067.3	16269.2	17417.9	17628.4	16928.5	16459.4	16380.8	16778.9	18264.8	16319.9
55°	13124.9	13502.7	15693.6	17521.9	18110.2	17818.6	17788.1	17930.1	18457.6	20273.1	17488.9
57.5°	12242.5	12526.5	14443.5	17539.6	18718.7	18853.1	19340.0	19375.5	20298.5	22405.7	18810.0
60°	11760.7	12011.7	13758.9	17423.0	19568.2	20133.7	20927.4	21054.1	22096.3	24715.7	20179.3
62.5°	11339.8	11555.3	13348.1	17019.8	20526.7	22032.9	22983.8	23044.7	24137.6	27266.7	21530.9
65°	10348.3	10594.3	12521.4	16616.6	21353.4	24406.4	25712.3	25641.3	26310.7	29467.7	22377.8
67.5°	9012.0	9323.9	10977.2	15224.5	21761.6	27000.4	28785.6	28696.8	28455.9	30910.5	22621.2
70°	7305.4	7472.8	9001.8	12818.1	20131.1	28362.1	31212.3	31118.4	29784.6	31100.7	21470.0
71°	6286.1	6547.2	7837.9	11385.4	18774.5	27946.2	31524.2	31498.8	29787.2	30575.8	20602.8
72.5°	4906.6	5066.4	6207.5	8821.8	15957.3	25582.9	30753.3	30849.6	29140.6	29117.7	18815.1
75°	3103.7	3174.7	3894.9	5193.2	8755.9	18117.8	26252.4	26513.6	25874.6	23833.3	13992.1
77.5°	1802.9	1894.2	2332.9	3060.6	3783.3	9833.5	18784.7	19068.7	17978.3	13122.4	5728.2
80°	1049.8	1151.2	1536.7	1777.5	1737.0	3648.9	9564.8	10049.1	7784.7	3314.2	1607.7
82.5°	583.2	651.7	1080.2	1082.8	925.5	1191.8	3009.9	3149.4	2221.3	1336.3	656.8
85°	423.5	479.3	697.3	631.4	443.8	512.2	1047.3	1098.0	897.6	562.9	213.0
87.5°	149.6	213.0	382.9	304.3	121.7	106.5	301.8	246.0	228.2	157.2	48.2
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°	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5	8375.5
2.5°	8421.1	8426.2	8400.9	8355.2	8309.6	8251.3	8185.3	8134.6	8111.8	8109.3	8106.7
5°	8512.4	8525.1	8428.8	8286.8	8129.5	7936.8	7772.0	7584.4	7536.2	7460.1	7482.9
7.5°	8659.5	8651.9	8461.7	8160.0	7792.3	7384.0	7039.2	6838.9	6630.9	6572.6	6575.1
10°	8870.0	8821.8	8461.7	7901.3	7287.7	6681.6	6199.9	5895.6	5730.7	5593.8	5543.1
12.5°	9093.1	8971.4	8380.6	7538.7	6638.5	5895.6	5378.3	4967.5	4861.0	4749.4	4752.0
15°	9306.1	9103.3	8220.8	7029.0	5938.7	5056.2	4554.2	4308.2	4275.2	4287.9	4285.4
17.5°	9498.8	9197.1	7977.4	6461.0	5122.2	4336.1	4069.8	4087.6	4176.3	4239.7	4247.3
20°	9694.1	9252.9	7614.8	5700.3	4351.3	3899.9	3910.1	4049.6	4183.9	4270.2	4282.8
22.5°	9879.2	9278.2	7188.8	4965.0	3793.4	3714.8	3864.4	4014.1	4145.9	4229.6	4242.3
25°	10000.9	9219.9	6585.3	4196.6	3519.6	3648.9	3806.1	3932.9	4044.5	4130.7	4151.0
27.5°	10033.9	9032.3	5837.2	3575.4	3392.8	3585.5	3730.1	3823.9	3910.1	3991.2	4006.4
30°	10016.1	8755.9	5015.7	3210.2	3319.3	3512.0	3623.6	3692.0	3796.0	3859.4	3872.1
32.5°	9988.2	8433.8	4158.6	3015.0	3258.4	3443.5	3509.4	3570.3	3567.8	3542.4	3560.2
35°	9998.4	8048.4	3463.8	2898.3	3205.2	3392.8	3448.6	3372.5	3154.4	3144.3	3134.2
37.5°	10051.6	7668.0	2959.2	2817.2	3177.3	3385.2	3415.6	3065.7	2873.0	2784.2	2761.4
40°	10188.5	7224.3	2627.0	2756.3	3174.7	3443.5	3266.0	2911.0	2540.8	2368.4	2355.7
42.5°	10371.1	6788.1	2424.2	2718.3	3205.2	3532.3	3205.2	2692.9	2289.8	2188.3	2173.1
45°	10642.4	6288.6	2312.6	2700.5	3250.8	3565.2	3184.9	2533.2	2188.3	2107.2	2107.2
47.5°	10949.3	5811.9	2251.7	2687.9	3309.1	3542.4	3004.8	2482.5	2140.2	2150.3	2198.5
50°	11253.6	5398.6	2206.1	2660.0	3359.8	3529.7	2931.3	2479.9	2152.8	2282.2	2368.4
52.5°	11606.0	5107.0	2150.3	2614.3	3359.8	3448.6	2908.5	2530.7	2188.3	2226.4	2264.4
55°	12032.0	5015.7	2079.3	2515.4	3299.0	3245.7	2895.8	2604.2	2213.7	2124.9	2140.2
57.5°	12595.0	5162.7	2010.8	2391.2	3159.5	3035.3	2890.7	2624.5	2155.4	2081.8	2066.6
60°	13249.2	5454.3	1990.5	2264.4	2969.3	2855.2	2860.3	2566.2	2074.2	1998.2	2010.8
62.5°	13708.1	5629.3	1977.9	2168.0	2761.4	2657.4	2786.8	2495.2	2038.7	1972.8	1985.5
65°	13708.1	5416.3	1861.2	2021.0	2492.6	2419.1	2698.0	2406.4	1993.1	1917.0	1904.3
67.5°	13188.3	4795.1	1683.7	1800.4	2195.9	2147.8	2573.8	2299.9	1924.6	1866.3	1835.9
70°	11834.2	3636.2	1460.6	1541.7	1820.7	1863.8	2414.0	2155.4	1810.5	1739.5	1693.9
71°	11238.3	3167.1	1366.8	1409.9	1676.1	1739.5	2337.9	2094.5	1759.8	1658.4	1577.2
72.5°	10089.7	2667.6	1224.8	1242.5	1432.7	1546.8	2178.2	1977.9	1663.4	1518.9	1427.6
75°	7665.5	1947.4	986.4	976.3	1059.9	1227.3	1843.5	1762.3	1458.0	1262.8	1209.5
77.5°	3311.7	1059.9	737.9	745.5	720.1	930.6	1450.4	1513.8	1250.1	1027.0	978.8
80°	1004.1	611.1	504.6	514.8	481.8	623.8	1021.9	1186.7	1004.1	798.8	732.8
82.5°	514.8	365.1	344.9	339.8	306.8	352.5	618.7	811.4	717.6	499.5	441.2
85°	223.1	195.3	169.9	164.8	144.5	126.8	220.6	405.7	380.4	278.9	266.3
87.5°	55.8	50.7	33.0	30.4	17.8	2.5	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)