

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: P530918

Luminaire Tested: **GALN-SA6A-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18075 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 182
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

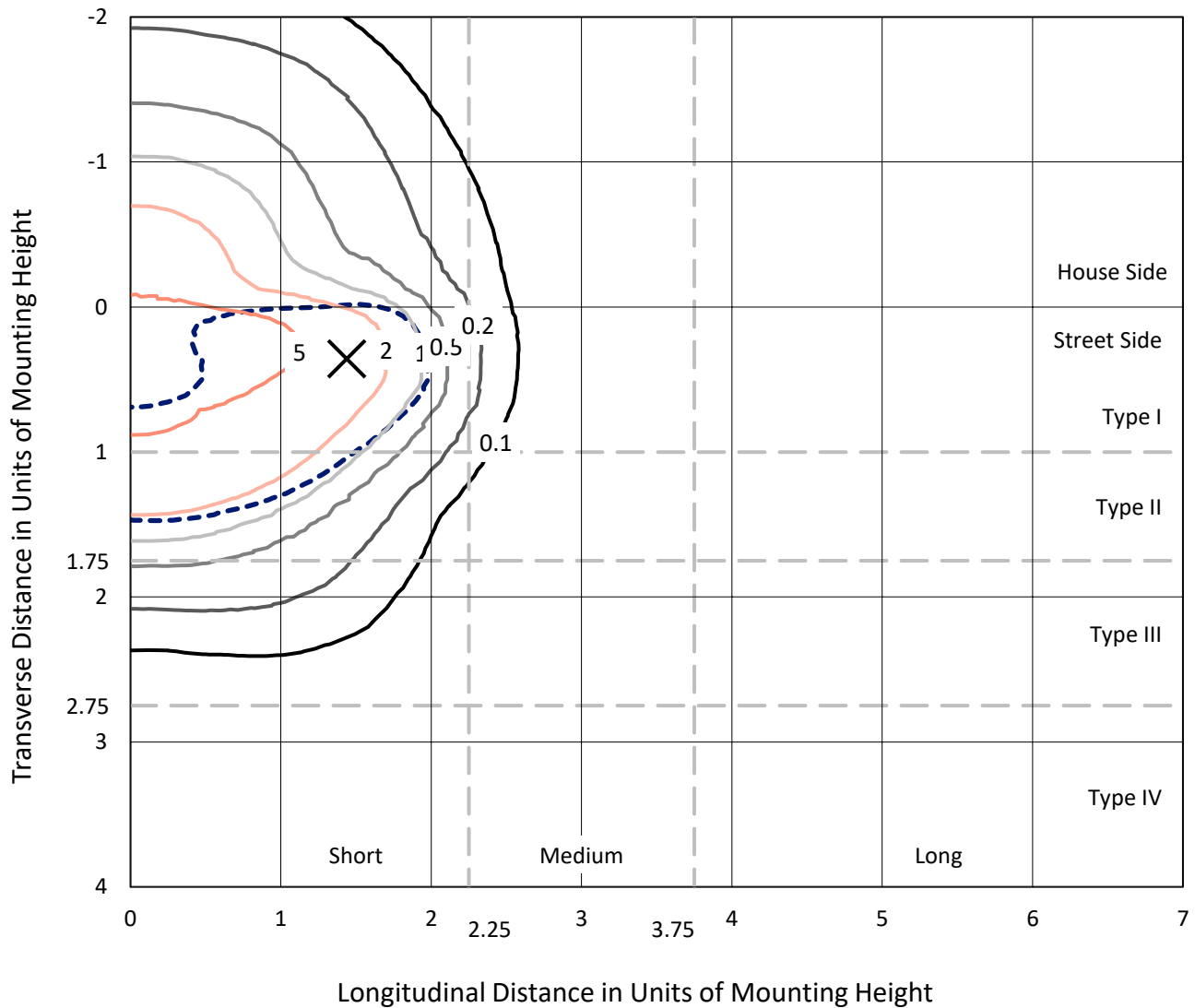


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Iso-Footcandle Lines of Horizontal Illumination

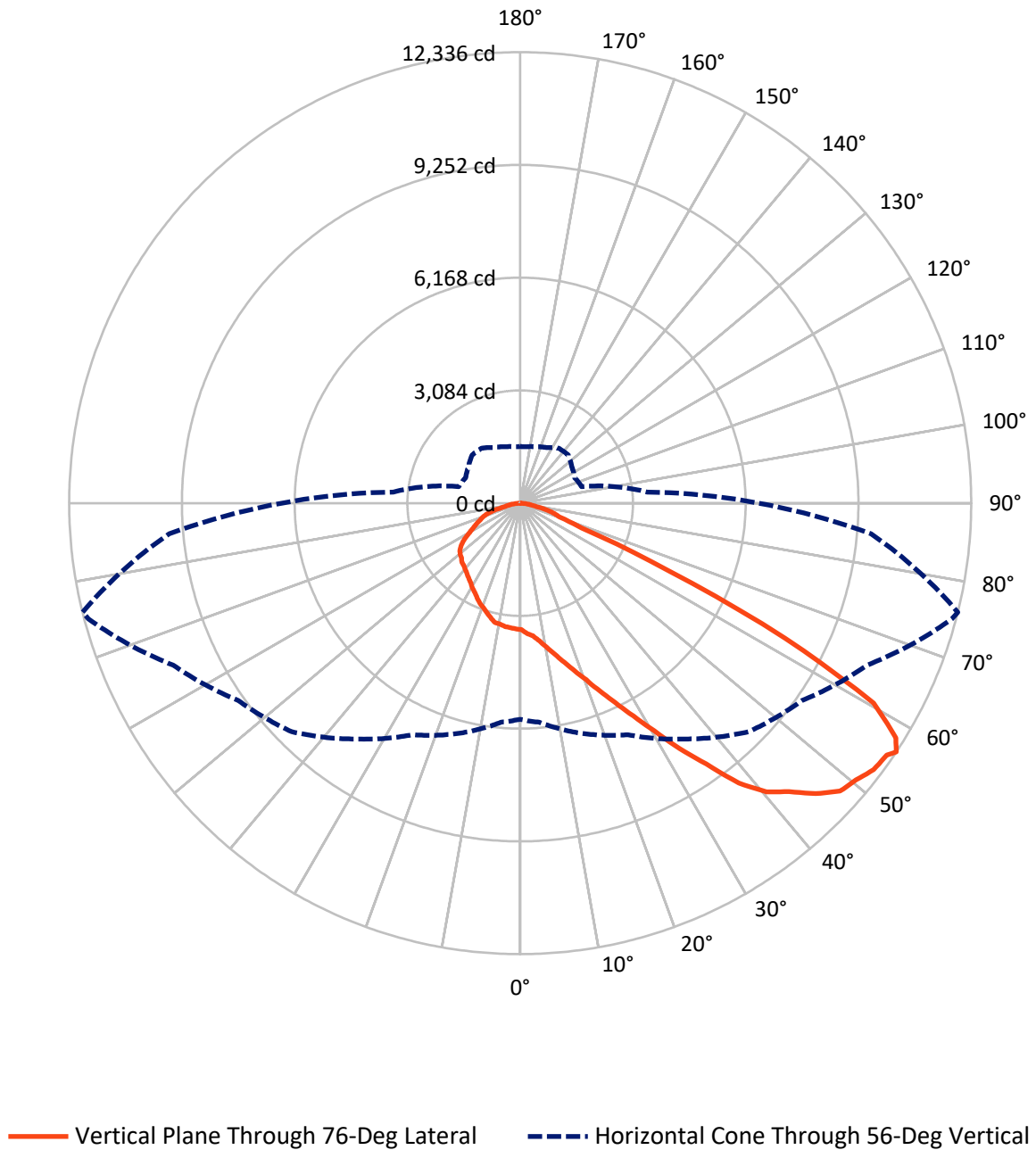
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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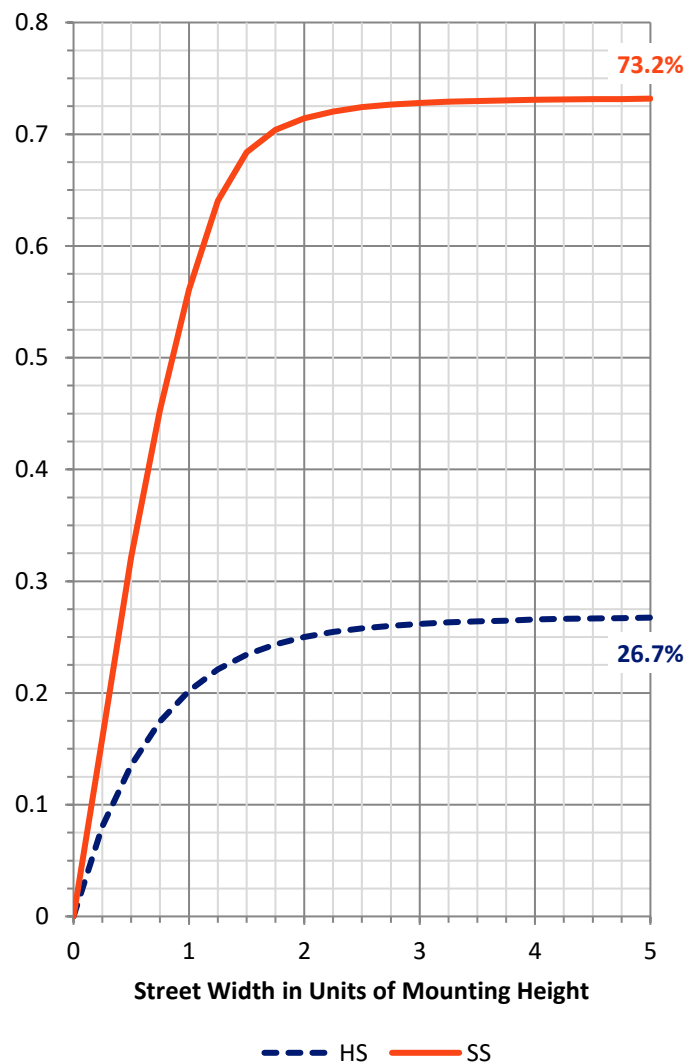
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4859.8	0.0	4859.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	13215.2	0.0	13215.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	18075.0	0.0	18075.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.0	1.9
10°-20°	1077.4	6.0
20°-30°	1884.2	10.4
30°-40°	2950.1	16.3
40°-50°	4291.6	23.7
50°-60°	4716.7	26.1
60°-70°	2105.3	11.6
70°-80°	608.1	3.4
80°-90°	98.6	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°	18075.0	100.0
0°-180°	18075.0	100.0

Coefficient of Utilization



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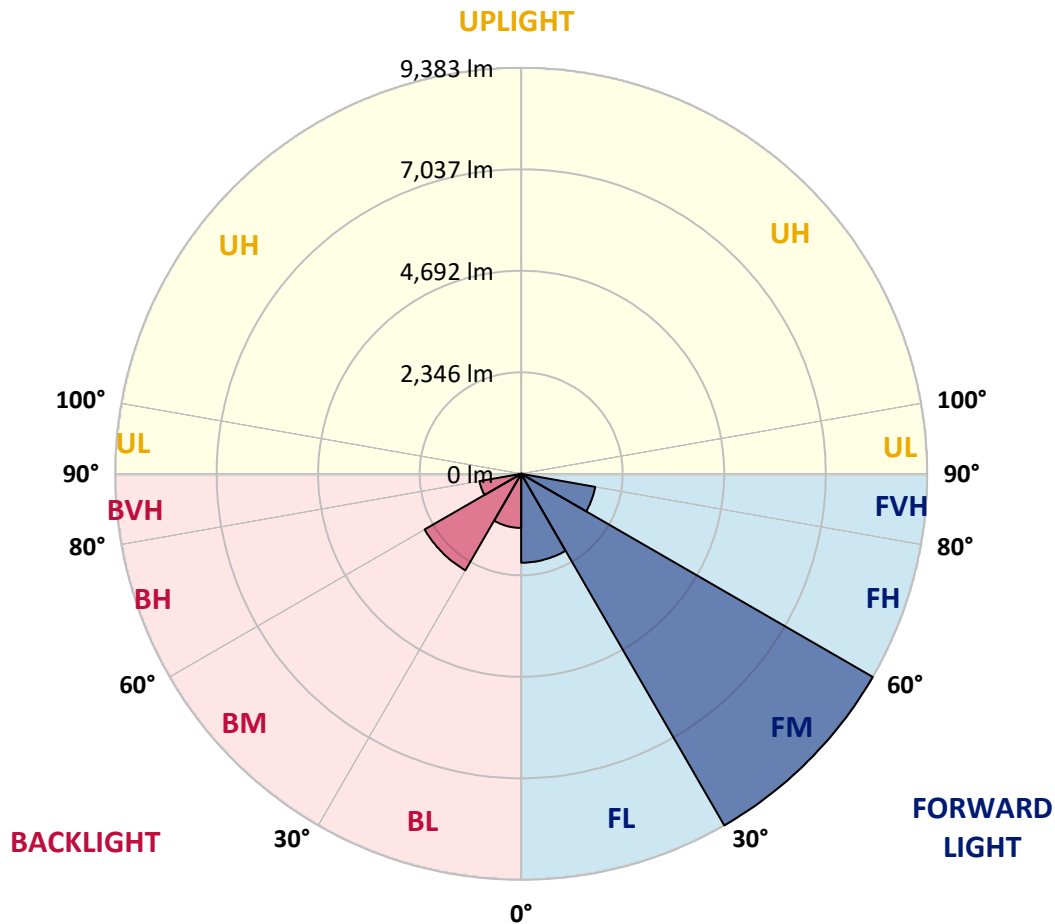
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2054.0	11.4			
FM	(30°-60°)	9383.1	51.9			
FH	(60°-80°)	1735.6	9.6			G1/1800
FVH	(80°-90°)	42.5	0.2			G1/100
BL	(0°-30°)	1250.5	6.9	B3/2500		
BM	(30°-60°)	2575.3	14.2	B3/5000		
BH	(60°-80°)	977.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	56.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3458.4	3458.4	3458.4	3458.4	3458.4	3458.4	3458.4	3458.4	3458.4	3458.4	3458.4
2.5°	3809.9	3749.0	3744.3	3727.9	3737.2	3695.1	3650.6	3592.0	3531.1	3568.5	3479.5
5°	4077.0	3995.0	4027.8	3971.6	3978.6	3922.4	3831.0	3763.0	3688.0	3643.5	3580.3
7.5°	4170.7	4177.8	4201.2	4191.8	4144.9	4144.9	4084.0	3964.5	3833.3	3807.5	3702.1
10°	4297.2	4299.6	4273.8	4280.8	4346.5	4316.0	4262.1	4210.6	4041.9	4011.4	3823.9
12.5°	4341.8	4299.6	4341.8	4379.3	4456.6	4498.8	4487.0	4449.6	4269.1	4248.0	3973.9
15°	4348.8	4323.0	4358.2	4442.5	4510.5	4688.5	4777.6	4751.8	4512.8	4515.2	4142.6
17.5°	4316.0	4351.1	4365.2	4437.8	4594.8	4761.2	5018.9	5054.1	4857.3	4826.8	4355.8
20°	4360.5	4334.7	4353.5	4419.1	4627.6	4887.7	5225.1	5457.1	5180.6	5159.5	4576.1
22.5°	4531.6	4496.4	4491.7	4533.9	4683.9	4953.3	5443.0	5860.1	5574.2	5586.0	4850.2
25°	4665.1	4683.9	4667.5	4665.1	4758.8	5051.7	5731.2	6340.4	6108.5	6040.5	5173.6
27.5°	4894.7	4939.3	4906.5	4951.0	4929.9	5199.3	5937.4	6872.3	6684.9	6593.5	5466.5
30°	5213.4	5236.8	5206.4	5206.4	5143.1	5405.5	6124.9	7427.6	7350.3	7226.1	5810.9
32.5°	5632.8	5668.0	5607.0	5571.9	5562.5	5712.5	6462.3	7975.9	8107.1	8001.7	6267.8
35°	6188.1	6167.0	6094.4	6061.6	5935.1	6183.4	6963.7	8606.2	8950.7	8763.2	6820.8
37.5°	6677.8	6645.0	6640.4	6457.6	6488.1	6691.9	7390.1	9084.2	9768.4	9714.5	7404.2
40°	7134.7	7165.2	7214.4	7111.3	7064.5	7289.4	7886.9	9449.7	10403.4	10382.3	7854.1
42.5°	7624.5	7596.3	7683.0	7596.3	7526.0	7844.7	8425.8	9702.8	10961.0	10787.6	8325.0
45°	8334.4	8245.4	8275.8	8282.9	8231.3	8348.5	8648.4	9885.5	11352.3	11333.6	8669.5
47.5°	8927.2	8929.6	8878.0	8838.2	8681.2	8798.3	8896.8	10000.4	11802.2	11771.7	8803.0
50°	9147.5	9117.0	9267.0	9353.7	9363.0	9124.0	9091.2	10063.6	12038.9	11905.3	8936.6
52.5°	8355.5	8383.6	8620.3	9135.8	9433.3	9459.1	9318.5	10194.8	12134.9	12106.8	9044.4
55°	6724.7	6860.6	7249.6	7844.7	8550.0	9325.5	9564.5	10330.7	12186.5	12163.0	9522.4
56°	5911.6	6017.1	6523.2	6989.5	7875.2	8840.5	9409.9	10476.0	12226.3	12336.4	9634.8
57.5°	4758.8	4880.7	5243.9	5773.4	6818.4	7917.3	8983.5	10297.9	12071.7	12113.8	9716.8
60°	2975.7	2987.5	3423.3	3772.4	4508.1	5581.3	6855.9	8960.0	11171.9	11111.0	8728.1
62.5°	1951.8	1954.1	2350.1	2636.0	2971.1	3217.1	4034.8	5942.1	8243.0	8135.3	6213.9
65°	1370.7	1401.2	1708.1	2090.0	2225.9	2097.1	2071.3	3132.7	4604.2	4449.6	3338.9
67.5°	1002.8	1005.2	1277.0	1687.0	1883.9	1595.7	1295.7	1530.0	1822.9	1818.2	1546.4
70°	663.1	691.2	899.8	1260.6	1485.5	1281.7	1059.1	1094.2	1159.8	1159.8	1150.5
72.5°	386.6	412.4	550.6	799.0	834.1	801.3	838.8	937.2	979.4	977.1	965.4
75°	220.3	232.0	262.4	332.7	414.7	489.7	616.2	710.0	752.1	777.9	747.4
77.5°	128.9	135.9	154.6	189.8	215.6	264.8	335.1	400.7	456.9	449.9	454.6
80°	67.9	67.9	86.7	112.5	150.0	187.4	222.6	260.1	290.5	297.6	304.6
82.5°	39.8	42.2	56.2	82.0	107.8	133.6	171.0	196.8	224.9	227.3	232.0
85°	21.1	23.4	35.1	53.9	72.6	82.0	84.4	79.7	86.7	82.0	93.7
87.5°	7.0	7.0	11.7	9.4	9.4	11.7	14.1	14.1	18.7	18.7	18.7
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°	3458.4	3458.4	3458.4	3458.4	3458.4	3458.4	3458.4	3458.4	3458.4	3458.4	3458.4
2.5°	3477.2	3477.2	3437.3	3362.4	3350.6	3320.2	3292.1	3289.7	3268.6	3249.9	3240.5
5°	3542.8	3470.1	3411.6	3343.6	3263.9	3226.5	3184.3	3137.4	3118.7	3137.4	3135.1
7.5°	3617.8	3556.8	3381.1	3254.6	3163.2	3125.7	3078.8	3029.6	3034.3	3034.3	3001.5
10°	3690.4	3608.4	3327.2	3165.5	3032.0	3003.9	2978.1	2996.8	3020.3	3024.9	3003.9
12.5°	3812.2	3627.1	3301.4	3076.5	2992.1	2931.2	2947.6	2999.2	3048.4	3034.3	3050.7
15°	3903.6	3643.5	3184.3	2985.1	2879.7	2907.8	2966.4	3001.5	3083.5	3074.2	3090.6
17.5°	3992.6	3652.9	3069.5	2863.3	2818.8	2896.1	2940.6	3041.3	3067.1	3123.4	3144.4
20°	4175.4	3671.6	2952.3	2788.3	2774.2	2863.3	2940.6	2987.5	3043.7	3092.9	3092.9
22.5°	4269.1	3662.3	2875.0	2689.9	2734.4	2790.6	2860.9	2940.6	2940.6	2987.5	2989.8
25°	4386.3	3624.8	2753.1	2643.0	2675.8	2729.7	2809.4	2781.3	2811.7	2811.7	2849.2
27.5°	4519.8	3545.1	2647.7	2558.7	2624.3	2682.9	2694.6	2675.8	2640.7	2636.0	2621.9
30°	4627.6	3446.7	2570.4	2530.6	2584.4	2617.2	2579.8	2539.9	2479.0	2474.3	2441.5
32.5°	4775.2	3324.9	2474.3	2460.3	2521.2	2523.5	2511.8	2450.9	2361.8	2324.4	2286.9
35°	5023.6	3254.6	2401.7	2422.8	2441.5	2434.5	2413.4	2347.8	2258.8	2242.3	2228.3
37.5°	5206.4	3203.0	2326.7	2352.5	2368.9	2378.2	2315.0	2242.3	2244.7	2211.9	2202.5
40°	5412.6	3170.2	2265.8	2277.5	2279.8	2310.3	2233.0	2197.8	2214.2	2193.1	2207.2
42.5°	5677.3	3179.6	2202.5	2193.1	2237.7	2225.9	2188.5	2141.6	2151.0	2087.7	2097.1
45°	5817.9	3242.9	2165.0	2122.9	2172.1	2169.7	2120.5	2076.0	2019.8	1897.9	1902.6
47.5°	5911.6	3259.3	2076.0	2047.9	2099.4	2129.9	2073.6	1970.5	1890.9	1804.2	1783.1
50°	6007.7	3289.7	2033.8	1975.2	1996.3	2069.0	1998.7	1900.3	1822.9	1745.6	1757.3
52.5°	6092.1	3348.3	1951.8	1865.1	1902.6	1982.3	1944.8	1825.3	1740.9	1677.7	1658.9
55°	6467.0	3479.5	1813.6	1701.1	1790.1	1890.9	1869.8	1724.5	1633.1	1600.3	1595.7
56°	6525.5	3484.2	1740.9	1644.9	1726.9	1860.4	1834.6	1680.0	1598.0	1546.4	1548.8
57.5°	6534.9	3428.0	1637.8	1593.3	1663.6	1815.9	1783.1	1644.9	1532.4	1485.5	1471.5
60°	5750.0	2675.8	1509.0	1480.8	1562.8	1680.0	1668.3	1548.8	1422.3	1368.4	1394.1
62.5°	3920.0	1961.2	1408.2	1403.5	1445.7	1560.5	1530.0	1422.3	1316.8	1281.7	1265.3
65°	2282.2	1487.9	1309.8	1291.0	1326.2	1387.1	1408.2	1295.7	1185.6	1162.2	1155.1
67.5°	1347.3	1230.1	1183.3	1152.8	1141.1	1178.6	1195.0	1129.4	1019.2	986.4	1014.6
70°	1127.0	1094.2	1096.6	1045.0	1016.9	991.1	977.1	918.5	827.1	784.9	773.2
72.5°	972.4	958.3	949.0	902.1	876.3	817.7	756.8	698.2	630.3	595.1	597.5
75°	742.8	738.1	742.8	719.3	674.8	628.0	571.7	496.7	445.2	400.7	410.0
77.5°	442.8	456.9	463.9	454.6	435.8	393.6	358.5	309.3	260.1	224.9	220.3
80°	304.6	316.3	328.0	316.3	297.6	267.1	229.6	192.1	157.0	138.2	133.6
82.5°	232.0	243.7	250.7	239.0	215.6	182.8	157.0	131.2	103.1	84.4	79.7
85°	84.4	96.1	93.7	112.5	121.8	117.2	100.8	77.3	58.6	42.2	39.8
87.5°	23.4	21.1	23.4	23.4	23.4	21.1	18.7	18.7	18.7	11.7	9.4
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)