

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: P529514

Luminaire Tested: **GALN-SA4C-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529514
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-SA4C-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA 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: 18537 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 213
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



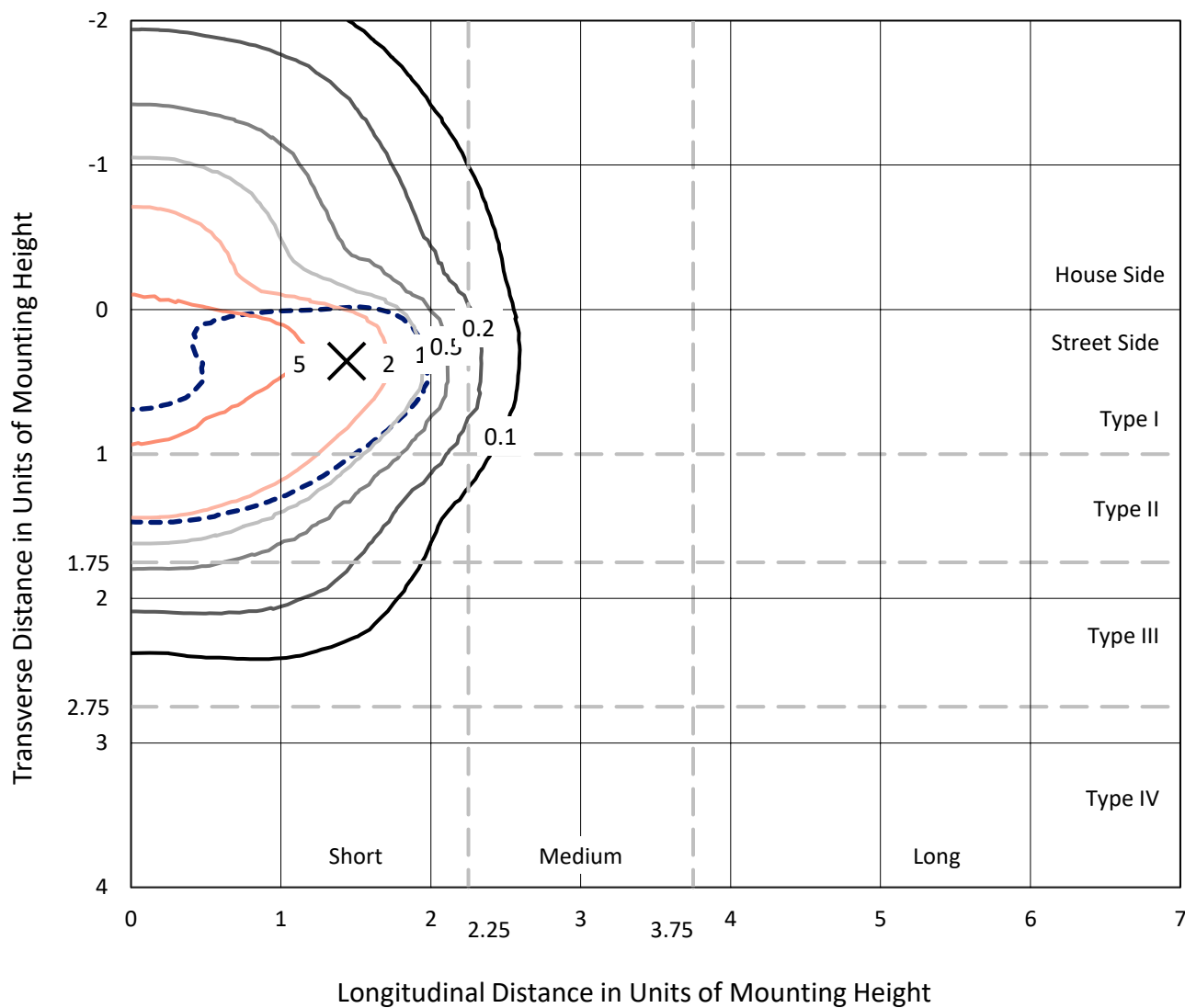
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

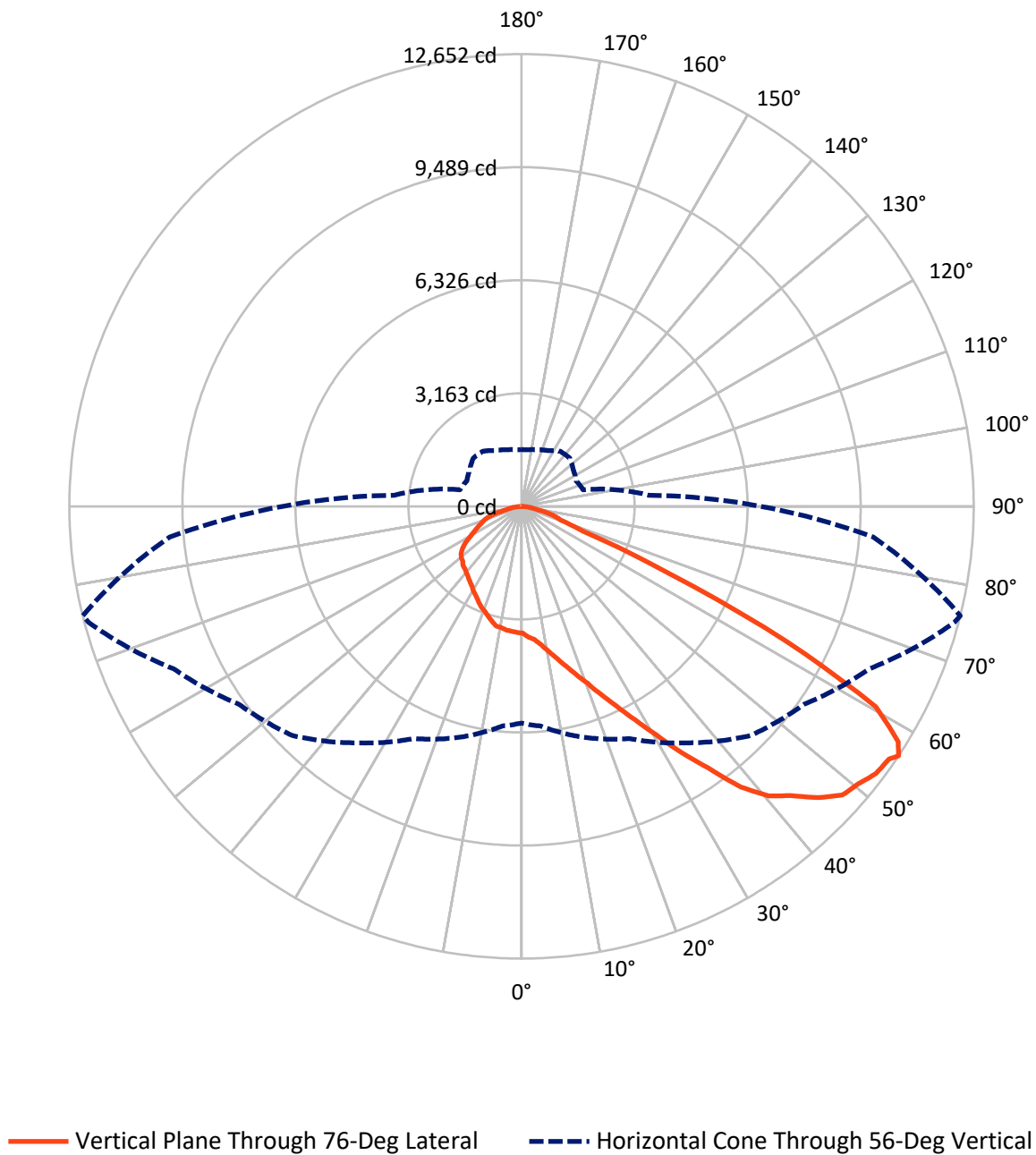
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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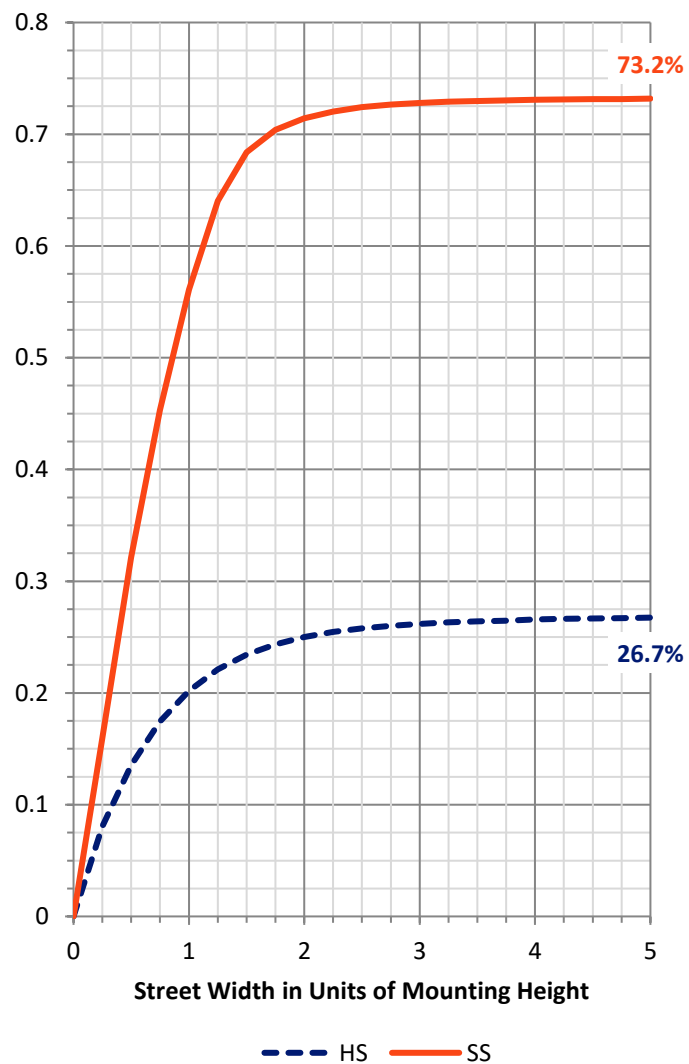
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4984.0	0.0	4984.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	13553.0	0.0	13553.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	18537.0	0.0	18537.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.7	1.9
10°-20°	1104.9	6.0
20°-30°	1932.4	10.4
30°-40°	3025.5	16.3
40°-50°	4401.3	23.7
50°-60°	4837.3	26.1
60°-70°	2159.1	11.6
70°-80°	623.6	3.4
80°-90°	101.2	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°	18537.0	100.0
0°-180°	18537.0	100.0

Coefficient of Utilization



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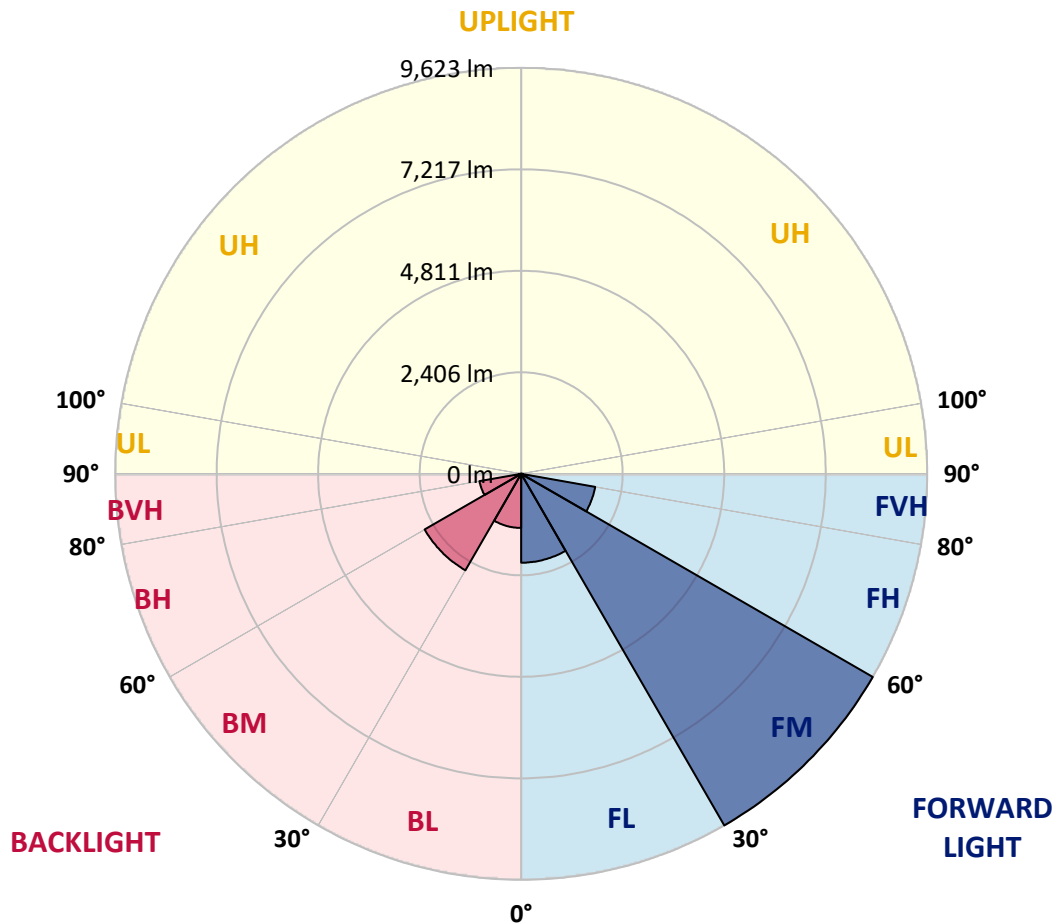
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2106.5	11.4			
FM	(30°-60°)	9622.9	51.9			
FH	(60°-80°)	1780.0	9.6			G1/1800
FVH	(80°-90°)	43.5	0.2			G1/100
BL	(0°-30°)	1282.5	6.9	B3/2500		
BM	(30°-60°)	2641.1	14.2	B3/5000		
BH	(60°-80°)	1002.8	5.4	B3/2500		G3/2500
BVH	(80°-90°)	57.6	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8
2.5°	3907.3	3844.8	3840.0	3823.2	3832.8	3789.5	3743.9	3683.8	3621.3	3659.8	3568.4
5°	4181.2	4097.1	4130.7	4073.1	4080.3	4022.6	3928.9	3859.2	3782.3	3736.7	3671.8
7.5°	4277.3	4284.5	4308.6	4299.0	4250.9	4250.9	4188.4	4065.9	3931.3	3904.9	3796.7
10°	4407.1	4409.5	4383.1	4390.3	4457.6	4426.3	4371.0	4318.2	4145.2	4113.9	3921.7
12.5°	4452.7	4409.5	4452.7	4491.2	4570.5	4613.7	4601.7	4563.3	4378.3	4356.6	4075.5
15°	4460.0	4433.5	4469.6	4556.1	4625.8	4808.4	4899.7	4873.3	4628.2	4630.6	4248.5
17.5°	4426.3	4462.4	4476.8	4551.3	4712.3	4882.9	5147.2	5183.3	4981.4	4950.2	4467.2
20°	4472.0	4445.5	4464.8	4532.0	4745.9	5012.6	5358.7	5596.6	5313.0	5291.4	4693.0
22.5°	4647.4	4611.3	4606.5	4649.8	4803.6	5079.9	5582.2	6009.9	5716.7	5728.7	4974.2
25°	4784.4	4803.6	4786.8	4784.4	4880.5	5180.9	5877.7	6502.5	6264.6	6194.9	5305.8
27.5°	5019.9	5065.5	5031.9	5077.5	5055.9	5332.2	6089.2	7048.0	6855.7	6762.0	5606.2
30°	5346.7	5370.7	5339.4	5339.4	5274.6	5543.7	6281.4	7617.5	7538.2	7410.8	5959.4
32.5°	5776.8	5812.8	5750.4	5714.3	5704.7	5858.5	6627.5	8179.8	8314.4	8206.2	6428.0
35°	6346.3	6324.7	6250.2	6216.5	6086.8	6341.5	7141.7	8826.2	9179.4	8987.2	6995.1
37.5°	6848.5	6814.9	6810.1	6622.6	6653.9	6862.9	7579.0	9316.4	10018.1	9962.8	7593.5
40°	7317.1	7348.4	7398.8	7293.1	7245.0	7475.7	8088.5	9691.3	10669.3	10647.7	8054.8
42.5°	7819.3	7790.5	7879.4	7790.5	7718.4	8045.2	8641.2	9950.8	11241.2	11063.4	8537.8
45°	8547.4	8456.1	8487.4	8494.6	8441.7	8561.9	8869.4	10138.2	11642.5	11623.3	8891.1
47.5°	9155.4	9157.8	9104.9	9064.1	8903.1	9023.2	9124.2	10256.0	12103.9	12072.6	9028.0
50°	9381.3	9350.0	9503.8	9592.7	9602.4	9357.3	9323.6	10320.9	12346.6	12209.6	9165.0
52.5°	8569.1	8597.9	8840.6	9369.3	9674.4	9700.9	9556.7	10455.4	12445.1	12416.3	9275.6
55°	6896.6	7036.0	7434.9	8045.2	8768.5	9563.9	9809.0	10594.8	12498.0	12473.9	9765.8
56°	6062.8	6170.9	6689.9	7168.1	8076.5	9066.5	9650.4	10743.8	12538.8	12651.8	9881.1
57.5°	4880.5	5005.4	5377.9	5921.0	6992.7	8119.7	9213.1	10561.2	12380.2	12423.5	9965.2
60°	3051.8	3063.8	3510.8	3868.8	4623.4	5723.9	7031.2	9189.0	11457.5	11395.0	8951.1
62.5°	2001.7	2004.1	2410.2	2703.4	3047.0	3299.3	4138.0	6094.0	8453.7	8343.2	6372.7
65°	1405.8	1437.0	1751.8	2143.5	2282.8	2150.7	2124.2	3212.8	4721.9	4563.3	3424.3
67.5°	1028.5	1030.9	1309.6	1730.2	1932.0	1636.4	1328.9	1569.2	1869.5	1864.7	1586.0
70°	680.0	708.9	922.7	1292.8	1523.5	1314.4	1086.2	1122.2	1189.5	1189.5	1179.9
72.5°	396.5	422.9	564.7	819.4	855.5	821.8	860.3	961.2	1004.5	1002.0	990.0
75°	225.9	237.9	269.1	341.2	425.3	502.2	632.0	728.1	771.4	797.8	766.6
77.5°	132.2	139.4	158.6	194.6	221.1	271.5	343.6	410.9	468.6	461.4	466.2
80°	69.7	69.7	88.9	115.3	153.8	192.2	228.3	266.7	298.0	305.2	312.4
82.5°	40.9	43.3	57.7	84.1	110.5	137.0	175.4	201.9	230.7	233.1	237.9
85°	21.6	24.0	36.0	55.3	74.5	84.1	86.5	81.7	88.9	84.1	96.1
87.5°	7.2	7.2	12.0	9.6	9.6	12.0	14.4	14.4	19.2	19.2	19.2
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°	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8	3546.8
2.5°	3566.0	3566.0	3525.2	3448.3	3436.3	3405.0	3376.2	3373.8	3352.2	3333.0	3323.3
5°	3633.3	3558.8	3498.8	3429.1	3347.4	3308.9	3265.7	3217.6	3198.4	3217.6	3215.2
7.5°	3710.2	3647.7	3467.5	3337.8	3244.0	3205.6	3157.5	3107.1	3111.9	3111.9	3078.2
10°	3784.7	3700.6	3412.2	3246.4	3109.5	3080.6	3054.2	3073.4	3097.5	3102.3	3080.6
12.5°	3909.7	3719.8	3385.8	3155.1	3068.6	3006.1	3023.0	3075.8	3126.3	3111.9	3128.7
15°	4003.4	3736.7	3265.7	3061.4	2953.3	2982.1	3042.2	3078.2	3162.3	3152.7	3169.5
17.5°	4094.7	3746.3	3147.9	2936.5	2890.8	2970.1	3015.8	3119.1	3145.5	3203.2	3224.8
20°	4282.1	3765.5	3027.8	2859.6	2845.1	2936.5	3015.8	3063.8	3121.5	3172.0	3172.0
22.5°	4378.3	3755.9	2948.5	2758.6	2804.3	2862.0	2934.1	3015.8	3015.8	3063.8	3066.2
25°	4498.4	3717.4	2823.5	2710.6	2744.2	2799.5	2881.2	2852.4	2883.6	2883.6	2922.0
27.5°	4635.4	3635.7	2715.4	2624.1	2691.4	2751.4	2763.4	2744.2	2708.2	2703.4	2688.9
30°	4745.9	3534.8	2636.1	2595.2	2650.5	2684.1	2645.7	2604.8	2542.4	2537.6	2503.9
32.5°	4897.3	3409.8	2537.6	2523.1	2585.6	2588.0	2576.0	2513.5	2422.2	2383.8	2345.3
35°	5152.0	3337.8	2463.1	2484.7	2503.9	2496.7	2475.1	2407.8	2316.5	2299.7	2285.2
37.5°	5339.4	3284.9	2386.2	2412.6	2429.4	2439.0	2374.2	2299.7	2302.1	2268.4	2258.8
40°	5550.9	3251.2	2323.7	2335.7	2338.1	2369.4	2290.1	2254.0	2270.8	2249.2	2263.6
42.5°	5822.5	3260.9	2258.8	2249.2	2294.9	2282.8	2244.4	2196.3	2205.9	2141.1	2150.7
45°	5966.6	3325.7	2220.4	2177.1	2227.6	2225.2	2174.7	2129.1	2071.4	1946.4	1951.2
47.5°	6062.8	3342.6	2129.1	2100.2	2153.1	2184.3	2126.6	2020.9	1939.2	1850.3	1828.7
50°	6161.3	3373.8	2085.8	2025.7	2047.3	2121.8	2049.8	1948.8	1869.5	1790.2	1802.2
52.5°	6247.8	3433.9	2001.7	1912.8	1951.2	2032.9	1994.5	1871.9	1785.4	1720.5	1701.3
55°	6632.3	3568.4	1859.9	1744.6	1835.9	1939.2	1917.6	1768.6	1674.9	1641.2	1636.4
56°	6692.3	3573.2	1785.4	1686.9	1771.0	1908.0	1881.5	1722.9	1638.8	1586.0	1588.4
57.5°	6701.9	3515.6	1679.7	1634.0	1706.1	1862.3	1828.7	1686.9	1571.6	1523.5	1509.1
60°	5896.9	2744.2	1547.5	1518.7	1602.8	1722.9	1710.9	1588.4	1458.6	1403.3	1429.8
62.5°	4020.2	2011.3	1444.2	1439.4	1482.6	1600.4	1569.2	1458.6	1350.5	1314.4	1297.6
65°	2340.5	1525.9	1343.3	1324.0	1360.1	1422.6	1444.2	1328.9	1215.9	1191.9	1184.7
67.5°	1381.7	1261.6	1213.5	1182.3	1170.3	1208.7	1225.5	1158.2	1045.3	1011.7	1040.5
70°	1155.8	1122.2	1124.6	1071.7	1042.9	1016.5	1002.0	942.0	848.3	805.0	793.0
72.5°	997.2	982.8	973.2	925.2	898.7	838.6	776.2	716.1	646.4	610.4	612.8
75°	761.7	756.9	761.7	737.7	692.1	644.0	586.3	509.4	456.6	410.9	420.5
77.5°	454.2	468.6	475.8	466.2	447.0	403.7	367.7	317.2	266.7	230.7	225.9
80°	312.4	324.4	336.4	324.4	305.2	273.9	235.5	197.0	161.0	141.8	137.0
82.5°	237.9	249.9	257.1	245.1	221.1	187.4	161.0	134.6	105.7	86.5	81.7
85°	86.5	98.5	96.1	115.3	125.0	120.1	103.3	79.3	60.1	43.3	40.9
87.5°	24.0	21.6	24.0	24.0	24.0	21.6	19.2	19.2	19.2	12.0	9.6
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)