

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: P458945

Luminaire Tested: **GALN-SA4C-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458945
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-SA4C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 25851 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

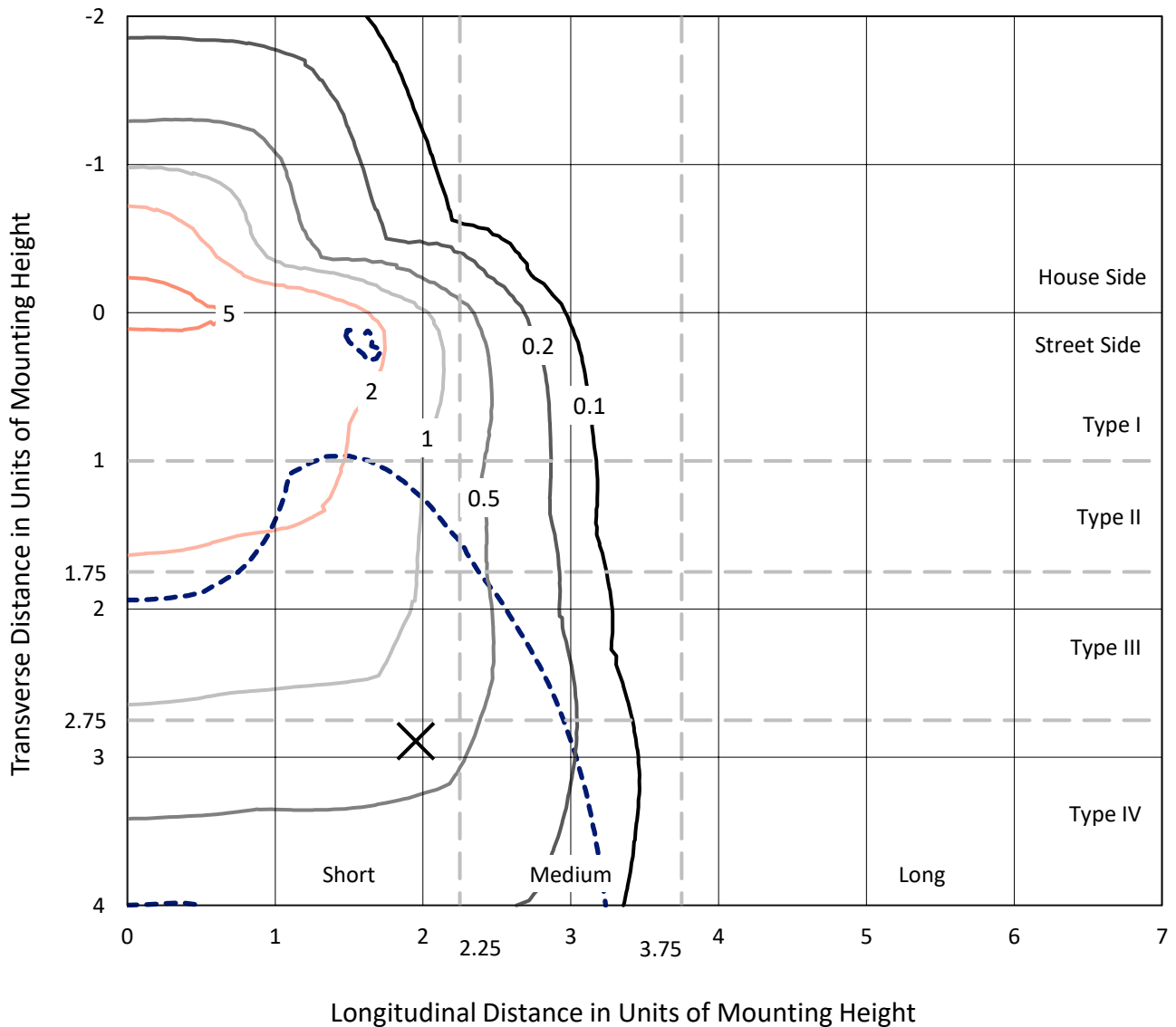
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

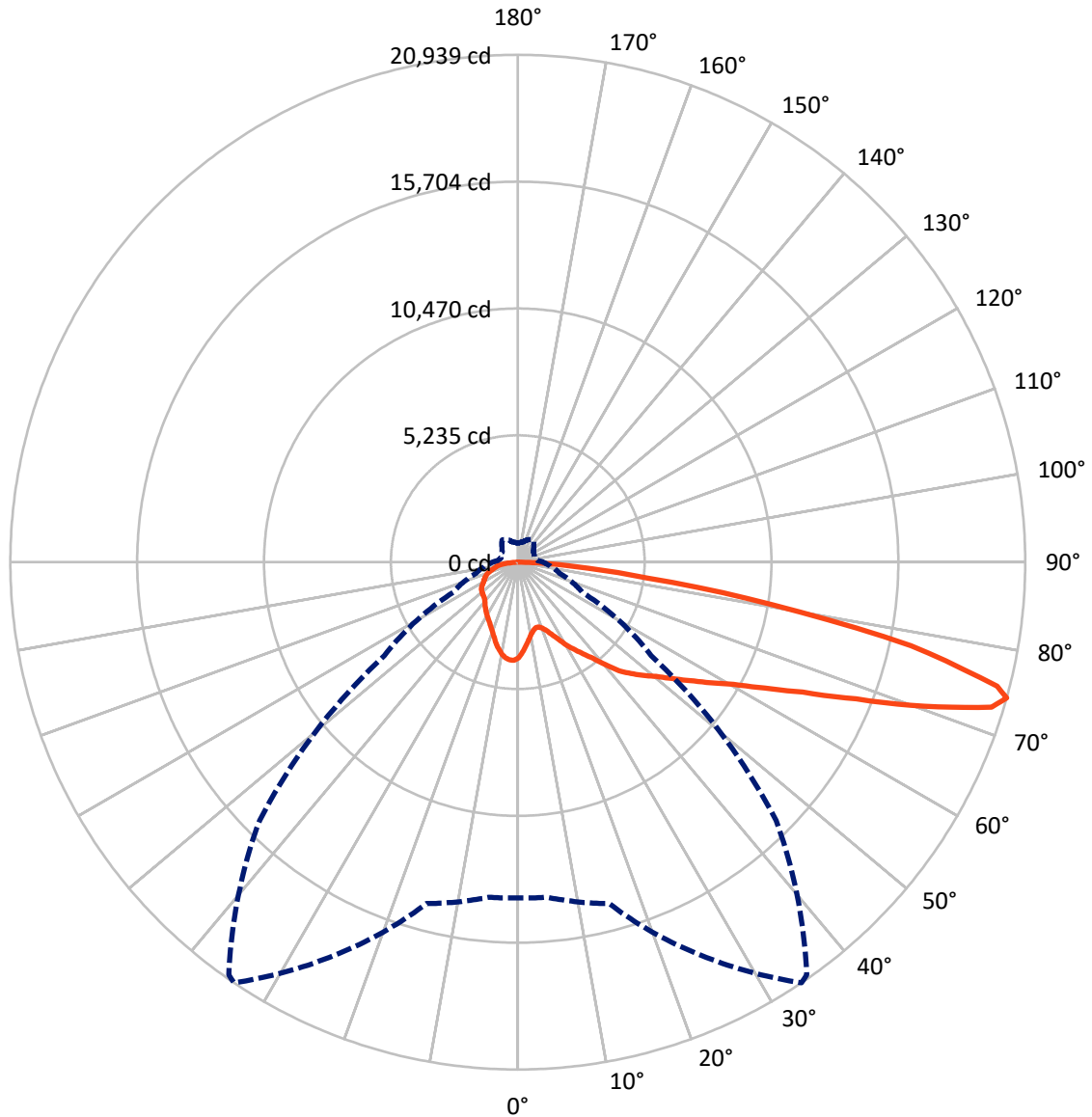
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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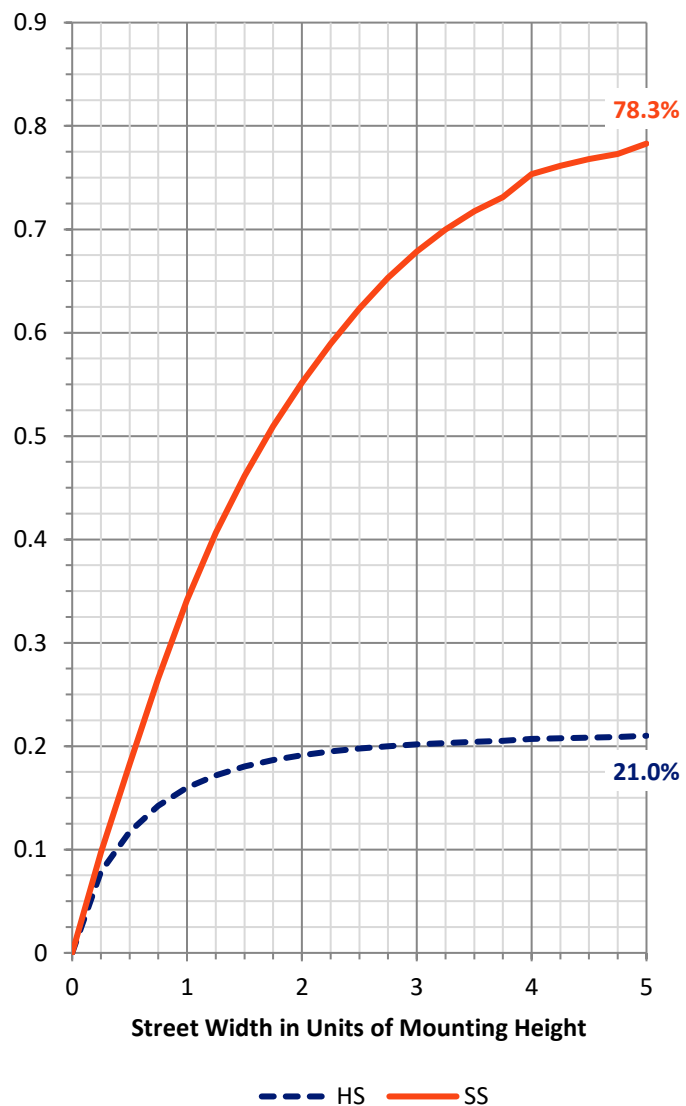
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5501.3	0.0	5501.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	20349.7	0.0	20349.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	25851.0	0.0	25851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.0	1.4
10°-20°	982.6	3.8
20°-30°	1620.1	6.3
30°-40°	2426.7	9.4
40°-50°	3527.8	13.6
50°-60°	4927.5	19.1
60°-70°	6169.0	23.9
70°-80°	5101.2	19.7
80°-90°	737.1	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°	25851.0	100.0
0°-180°	25851.0	100.0

Coefficient of Utilization



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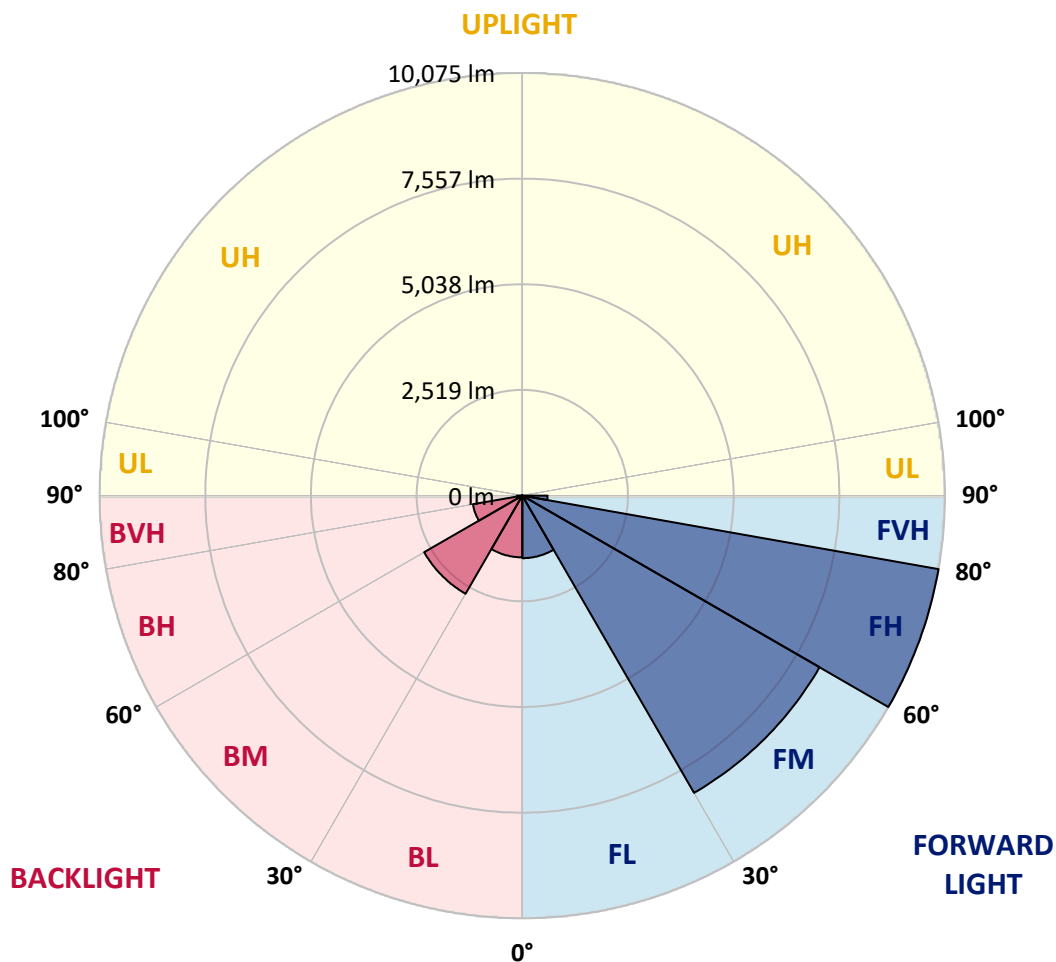
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1490.2	5.8			
FM	(30°-60°)	8180.3	31.6			
FH	(60°-80°)	10075.4	39.0			G4/12000
FVH	(80°-90°)	603.9	2.3			G4/750
BL	(0°-30°)	1471.5	5.7	B3/2500		
BM	(30°-60°)	2701.7	10.5	B3/5000		
BH	(60°-80°)	1194.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	133.2	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9
2.5°	3647.6	3666.2	3676.3	3712.1	3720.7	3732.1	3762.2	3802.3	3853.8	3899.7	3939.8
5°	3344.0	3372.7	3389.8	3421.3	3482.9	3488.7	3568.9	3660.5	3765.1	3862.4	3942.6
7.5°	3056.2	3087.7	3102.0	3159.3	3240.9	3253.8	3371.2	3515.9	3690.6	3838.1	3961.3
10°	2839.9	2855.7	2887.2	2930.1	3027.5	3036.1	3189.3	3382.7	3609.0	3826.6	3992.8
12.5°	2722.5	2731.1	2738.2	2784.1	2880.0	2892.9	3053.3	3272.4	3544.5	3835.2	4044.3
15°	2739.7	2742.5	2711.0	2719.6	2796.9	2815.6	2974.5	3199.4	3504.4	3856.7	4121.7
17.5°	2884.3	2874.3	2796.9	2756.8	2811.3	2819.9	2958.8	3170.7	3485.8	3896.8	4201.9
20°	3112.0	3097.7	2964.5	2875.7	2907.2	2914.4	3010.3	3192.2	3504.4	3962.7	4326.4
22.5°	3395.6	3389.8	3187.9	3080.5	3079.1	3079.1	3129.2	3269.5	3560.3	4052.9	4456.8
25°	3792.3	3762.2	3498.7	3359.8	3321.1	3318.2	3312.5	3397.0	3631.9	4148.9	4611.4
27.5°	4199.0	4147.4	3912.6	3699.2	3616.1	3606.1	3568.9	3577.4	3723.5	4257.7	4787.6
30°	4564.2	4531.2	4310.7	4074.4	3975.6	3952.7	3849.6	3802.3	3876.8	4453.9	5068.3
32.5°	4843.4	4823.4	4651.5	4436.7	4290.6	4286.4	4136.0	4097.3	4115.9	4691.6	5389.1
35°	5069.7	5076.9	4989.5	4803.3	4635.8	4611.4	4511.2	4462.5	4408.1	5035.4	5792.9
37.5°	5379.1	5394.8	5389.1	5228.7	5023.9	5029.6	5006.7	4926.5	4781.9	5419.2	6241.2
40°	5719.9	5731.4	5729.9	5668.4	5560.9	5566.7	5558.1	5466.4	5250.2	5907.5	6739.6
42.5°	6191.1	6136.7	5994.9	6056.5	6119.5	6146.7	6205.4	6118.0	5821.6	6428.8	7207.9
45°	6718.1	6615.0	6294.2	6322.8	6556.3	6607.8	6931.5	6811.2	6441.7	7027.4	7759.3
47.5°	7050.4	6948.7	6678.0	6672.3	6981.6	7031.7	7604.6	7560.2	7006.0	7673.3	8432.4
50°	7346.8	7332.5	7027.4	7100.5	7402.7	7477.1	8337.8	8296.3	7568.8	8435.2	9165.6
52.5°	7786.5	7670.5	7427.0	7577.4	7976.9	8074.3	9065.4	8943.6	8085.8	9108.3	9877.4
55°	7984.1	7956.9	7942.6	8072.9	8621.4	8691.6	9772.8	9493.6	8526.9	9678.3	10418.7
57.5°	8512.6	8462.4	8604.2	8693.0	9380.4	9487.8	10511.8	10067.8	8913.5	10130.9	10682.2
60°	9197.1	9169.9	9300.2	9460.6	10228.2	10391.5	11353.9	10557.6	9224.3	10358.6	10537.6
62.5°	10219.6	10216.8	10192.4	10536.1	11429.8	11580.2	12320.6	11034.5	9273.0	10188.1	9790.0
65°	11686.1	11634.6	11422.6	11797.8	12924.9	13101.1	13327.4	11300.9	8979.4	9313.1	8243.3
67.5°	13219.9	13217.1	13045.2	13532.1	15071.7	15253.6	14586.2	11242.2	8164.5	7544.4	5854.5
70°	14491.7	14430.1	14649.2	15946.7	17814.2	18024.7	15687.5	10550.5	6503.3	4982.4	3478.6
72.5°	14796.7	14799.6	15255.0	17808.5	20447.9	20480.8	16084.2	8551.2	4352.2	2748.2	1740.0
74°	13857.2	13881.6	14587.6	17901.6	20939.1	20790.2	15070.3	6721.0	2943.0	1794.5	1254.5
75°	12648.5	12495.3	13516.4	17281.5	20429.3	20268.9	13883.0	5393.4	2245.6	1433.6	1098.4
77.5°	6762.5	6918.6	8493.9	12896.3	16596.9	16412.2	9413.4	2586.4	1213.0	998.2	790.5
80°	2407.4	2655.2	3732.1	6748.2	10640.7	10698.0	4492.6	1185.8	853.5	736.1	558.5
82.5°	982.4	1009.6	1602.5	2994.6	5403.4	5455.0	1834.6	704.6	610.1	507.0	333.7
85°	383.8	395.3	708.9	1346.2	2305.7	2456.1	634.4	372.4	375.2	290.7	170.4
87.5°	128.9	146.1	290.7	448.3	783.4	767.6	184.7	110.3	134.6	126.0	53.0
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°	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9
2.5°	3959.8	3987.0	4005.7	4025.7	4044.3	4050.0	4045.8	4058.6	4060.1	4061.5	4062.9
5°	3982.7	4020.0	4055.8	4075.8	4084.4	4077.3	4052.9	4040.0	4028.6	4020.0	4022.8
7.5°	4014.2	4067.2	4100.2	4108.8	4085.9	4052.9	3992.8	3945.5	3915.4	3895.4	3893.9
10°	4062.9	4114.5	4141.7	4117.4	4054.3	3974.1	3879.6	3790.8	3723.5	3703.5	3702.0
12.5°	4124.5	4183.2	4181.8	4110.2	3999.9	3856.7	3703.5	3600.4	3508.7	3462.9	3481.5
15°	4204.7	4249.1	4207.6	4078.7	3904.0	3707.8	3518.7	3378.4	3275.3	3226.6	3229.4
17.5°	4297.8	4336.5	4226.2	4022.8	3769.4	3517.3	3298.2	3165.0	3083.4	3047.6	3044.7
20°	4413.8	4425.3	4226.2	3925.5	3596.1	3295.3	3086.2	2993.1	2947.3	2928.7	2934.4
22.5°	4538.4	4515.5	4203.3	3788.0	3368.4	3063.3	2923.0	2881.4	2858.5	2855.7	2858.5
25°	4678.8	4614.3	4156.0	3601.8	3130.6	2862.8	2781.2	2788.3	2792.6	2792.6	2802.7
27.5°	4850.6	4721.7	4077.3	3366.9	2852.8	2676.6	2653.7	2703.9	2726.8	2731.1	2738.2
30°	5076.9	4839.2	3946.9	3073.3	2616.5	2509.1	2549.2	2616.5	2642.3	2658.0	2655.2
32.5°	5346.1	4968.0	3770.8	2779.8	2426.0	2391.6	2440.3	2509.1	2537.7	2546.3	2534.9
35°	5662.6	5114.1	3538.8	2504.8	2259.9	2279.9	2337.2	2358.7	2384.5	2384.5	2390.2
37.5°	6003.5	5231.6	3255.2	2252.7	2131.0	2204.0	2245.6	2225.5	2214.1	2199.7	2206.9
40°	6350.0	5318.9	2887.2	2003.5	2002.1	2125.3	2136.7	2079.4	2033.6	2019.3	2012.1
42.5°	6652.2	5373.3	2554.9	1810.2	1880.4	2047.9	2056.5	1964.9	1891.8	1848.9	1834.6
45°	7008.8	5436.3	2229.8	1649.8	1767.2	1986.4	2007.8	1884.7	1777.3	1687.0	1664.1
47.5°	7497.2	5579.6	1973.5	1525.2	1685.6	1947.7	1977.8	1818.8	1677.0	1559.6	1541.0
50°	8048.5	5775.8	1774.4	1440.7	1622.6	1913.3	1950.6	1751.5	1583.9	1453.6	1439.3
52.5°	8554.1	5881.7	1602.5	1364.8	1561.0	1850.3	1914.8	1702.8	1492.3	1347.6	1334.7
55°	8830.5	5709.9	1433.6	1290.3	1476.5	1768.7	1864.6	1635.5	1403.5	1291.8	1273.2
57.5°	8867.7	5354.7	1280.3	1210.1	1387.7	1668.4	1771.5	1553.9	1346.2	1253.1	1237.4
60°	8579.9	4824.8	1161.5	1144.3	1297.5	1555.3	1667.0	1482.2	1287.5	1210.1	1194.4
62.5°	7863.8	4249.1	1078.4	1084.1	1205.8	1436.4	1589.7	1413.5	1231.6	1162.9	1148.6
65°	6632.2	3507.3	998.2	1022.5	1124.2	1343.3	1519.5	1356.2	1175.8	1127.1	1114.2
67.5°	4607.1	2532.0	932.3	958.1	1046.9	1248.8	1437.9	1294.6	1112.8	1087.0	1066.9
70°	2550.6	1558.2	855.0	885.1	966.7	1142.8	1346.2	1201.6	1021.1	1009.6	981.0
72.5°	1340.5	992.5	767.6	800.6	857.8	1006.8	1205.8	1099.9	930.9	882.2	845.0
74°	1046.9	813.4	708.9	743.3	781.9	926.6	1122.8	1026.8	866.4	809.2	780.5
75°	912.3	724.7	658.8	703.2	737.5	872.2	1058.3	975.3	830.6	776.2	750.4
77.5°	644.5	542.8	538.5	591.5	610.1	764.8	953.8	887.9	740.4	683.1	658.8
80°	452.6	406.7	426.8	459.7	485.5	676.0	885.1	767.6	607.2	539.9	531.3
82.5°	295.0	266.4	305.0	335.1	343.7	498.4	714.6	582.9	442.5	359.5	333.7
85°	136.1	133.2	174.7	170.4	169.0	243.5	423.9	340.8	254.9	190.5	179.0
87.5°	34.4	32.9	43.0	35.8	43.0	37.2	38.7	10.0	1.4	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)