

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: P652404

Luminaire Tested: **GALN-SA5B-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652404
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-SA5B-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA 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: 20101.6 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

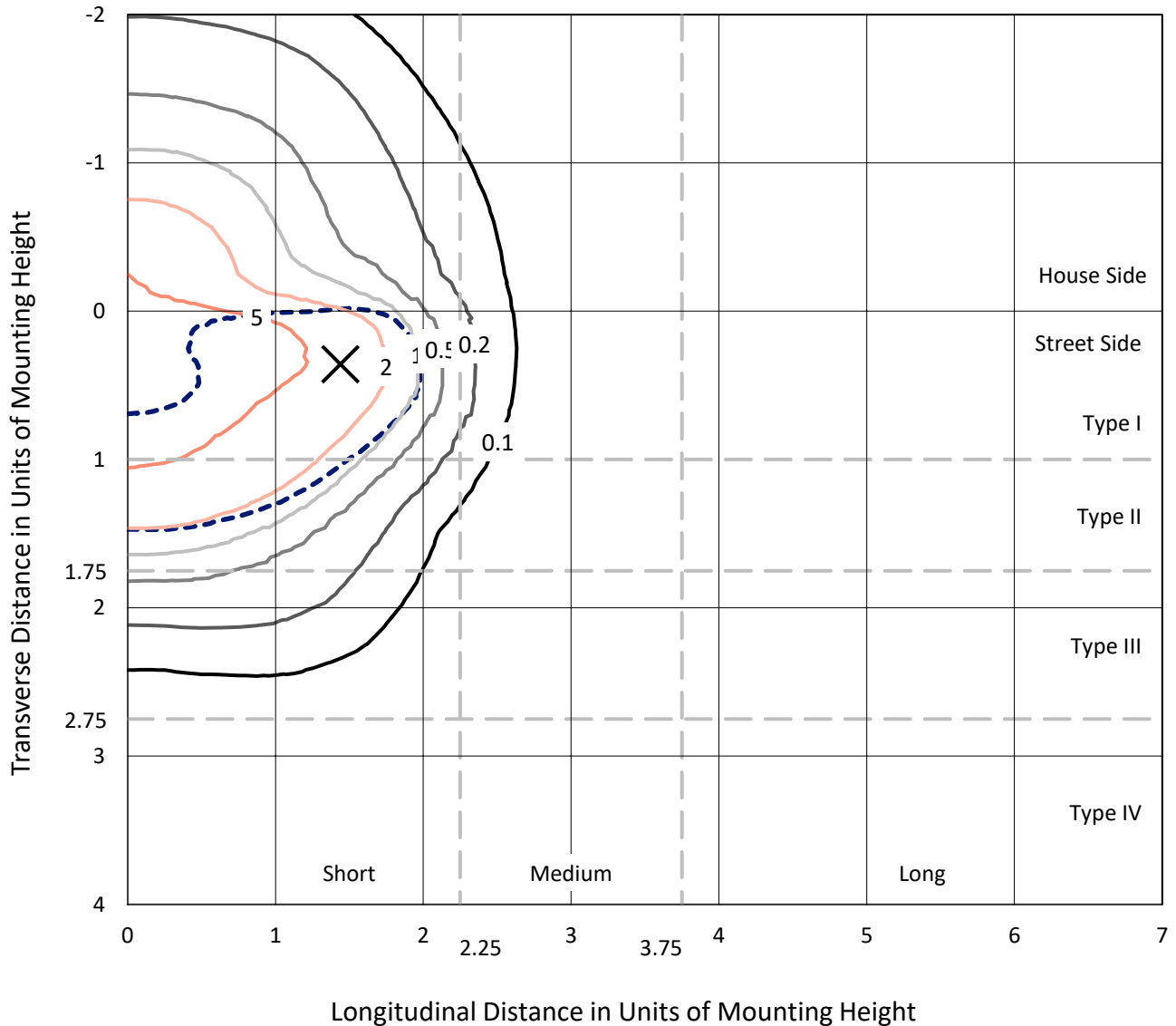
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA5B-840-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

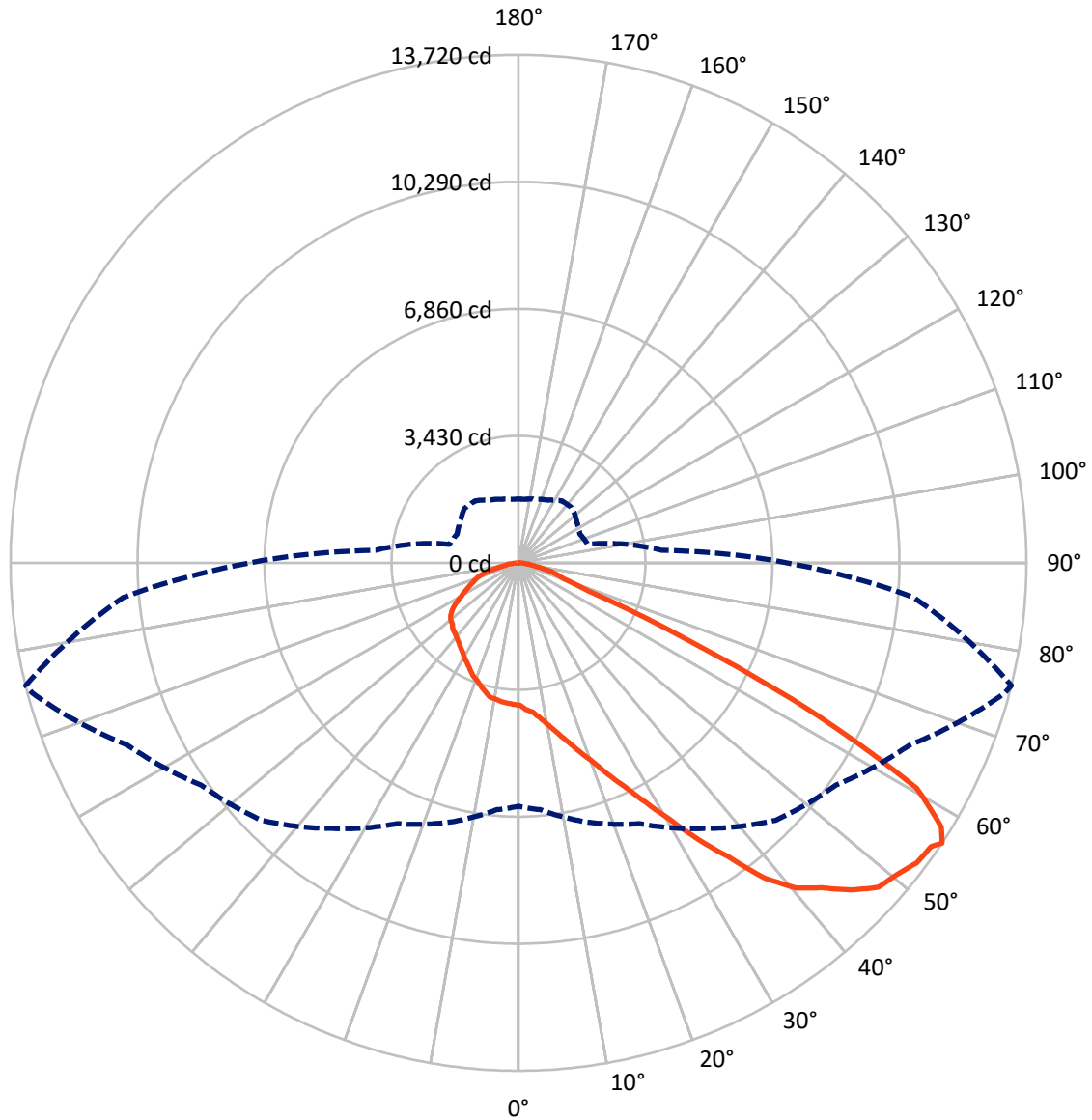
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

REPORT NUMBER: P652404
CATALOG NUMBER: GALN-SA5B-840-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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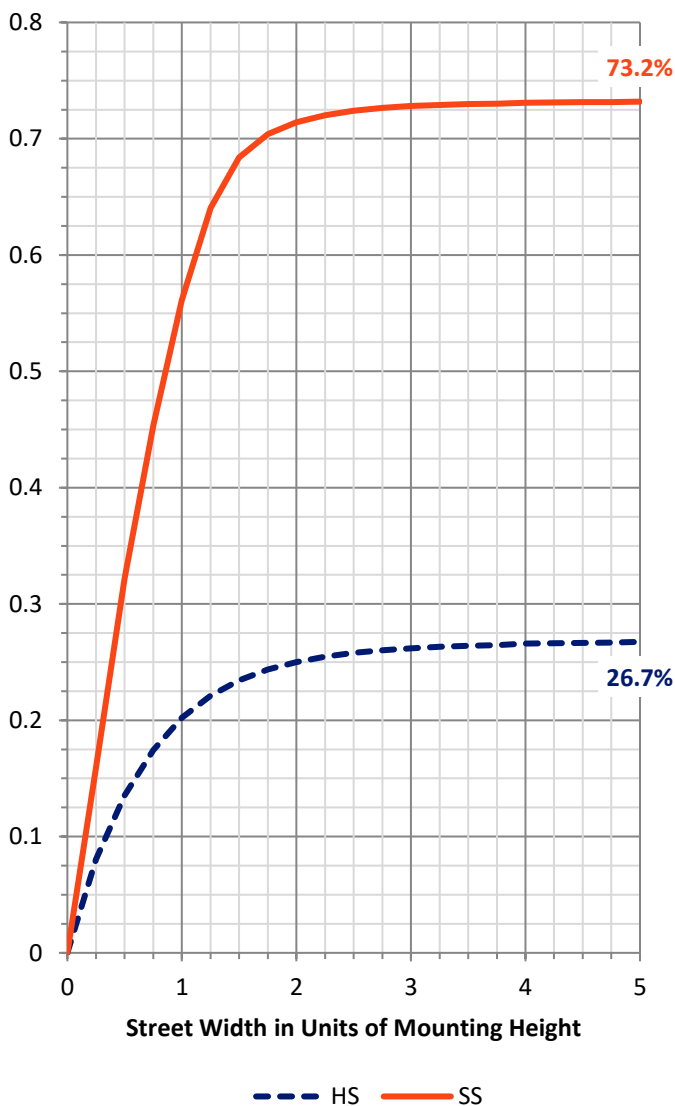
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5404.7	0.0	5404.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	14696.9	0.0	14696.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	20101.6	0.0	20101.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.4	1.9
10°-20°	1198.2	6.0
20°-30°	2095.5	10.4
30°-40°	3280.9	16.3
40°-50°	4772.7	23.7
50°-60°	5245.5	26.1
60°-70°	2341.4	11.6
70°-80°	676.3	3.4
80°-90°	109.7	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°	20101.6	100.0
0°-180°	20101.6	100.0

Coefficient of Utilization



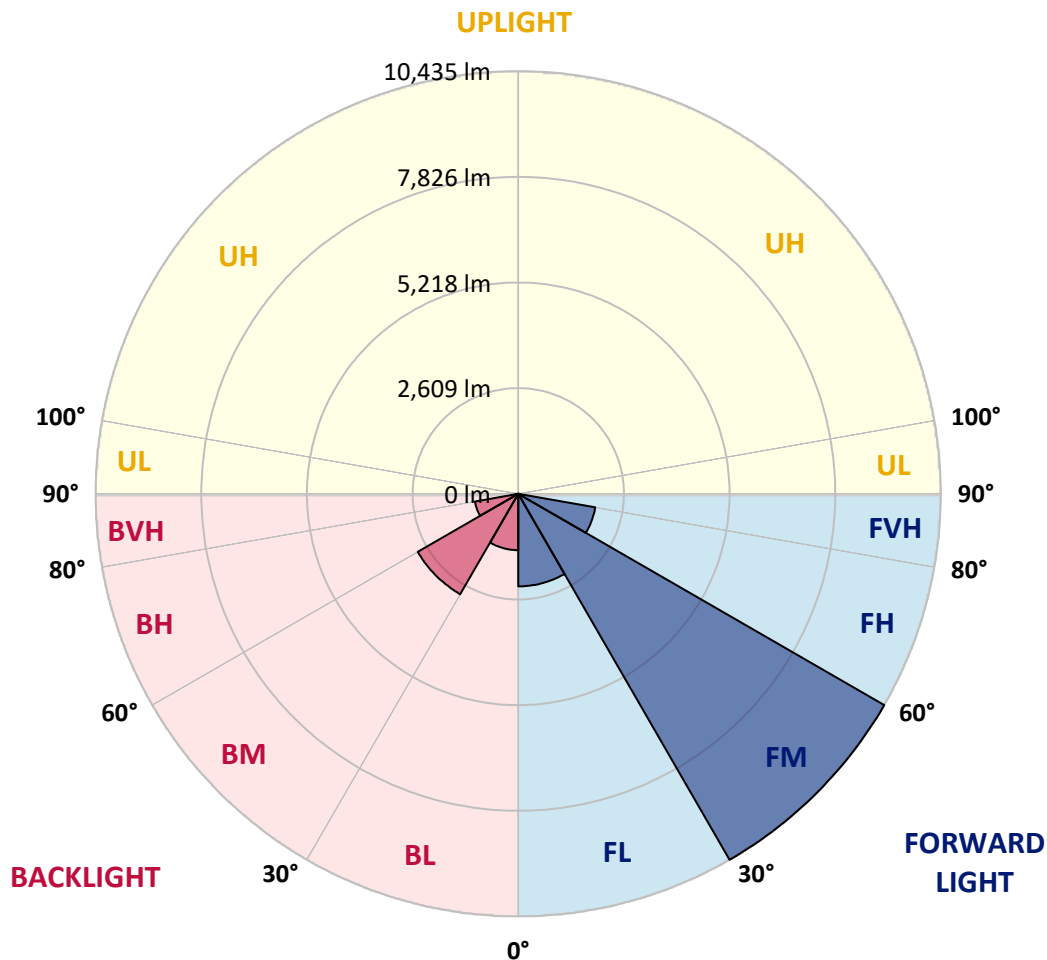
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 CATALOG NUMBER: GALN-SA5B-840-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2284.3	11.4			
FM (30°-60°)	10435.1	51.9			
FH (60°-80°)	1930.2	9.6			G2/5000
FVH (80°-90°)	47.2	0.2			G1/100
BL (0°-30°)	1390.7	6.9	B3/2500		
BM (30°-60°)	2864.1	14.2	B3/5000		
BH (60°-80°)	1087.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	62.5	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°	3846.1	3846.1	3846.1	3846.1	3846.1	3846.1	3846.1	3846.1	3846.1	3846.1	3846.1
2.5°	4237.0	4169.3	4164.1	4145.9	4156.3	4109.4	4059.8	3994.8	3927.0	3968.7	3869.6
5°	4534.1	4442.9	4479.4	4416.8	4424.7	4362.1	4260.5	4184.9	4101.6	4052.0	3981.7
7.5°	4638.4	4646.2	4672.3	4661.8	4609.7	4609.7	4541.9	4409.0	4263.1	4234.4	4117.2
10°	4779.1	4781.7	4753.0	4760.8	4833.8	4799.9	4740.0	4682.6	4495.1	4461.2	4252.7
12.5°	4828.6	4781.7	4828.6	4870.2	4956.3	5003.2	4990.2	4948.4	4747.8	4724.3	4419.5
15°	4836.4	4807.7	4846.9	4940.6	5016.2	5214.2	5313.3	5284.6	5018.8	5021.4	4607.1
17.5°	4799.9	4839.0	4854.6	4935.4	5110.0	5295.0	5581.6	5620.7	5401.8	5367.9	4844.2
20°	4849.5	4820.8	4841.6	4914.6	5146.5	5435.7	5811.0	6068.9	5761.4	5738.0	5089.1
22.5°	5039.6	5000.6	4995.4	5042.2	5209.0	5508.7	6053.3	6517.2	6199.3	6212.3	5394.0
25°	5188.2	5209.0	5190.8	5188.2	5292.4	5618.1	6373.9	7051.4	6793.3	6717.8	5753.6
27.5°	5443.5	5493.1	5456.6	5506.1	5482.6	5782.3	6603.1	7642.8	7434.4	7332.8	6079.3
30°	5797.9	5824.0	5790.1	5790.1	5719.7	6011.6	6811.6	8260.4	8174.4	8036.3	6462.4
32.5°	6264.4	6303.5	6235.7	6196.7	6186.2	6353.0	7186.8	8870.2	9016.1	8898.9	6970.5
35°	6882.0	6858.5	6777.7	6741.2	6600.5	6876.8	7744.5	9571.2	9954.2	9745.8	7585.5
37.5°	7426.5	7390.1	7384.9	7181.6	7215.5	7442.2	8218.8	10102.8	10863.6	10803.7	8234.4
40°	7934.7	7968.6	8023.3	7908.7	7856.5	8106.7	8771.1	10509.2	11569.8	11546.3	8734.7
42.5°	8479.3	8448.0	8544.5	8448.0	8369.9	8724.3	9370.5	10790.7	12190.0	11997.2	9258.5
45°	9268.9	9169.8	9203.7	9211.6	9154.2	9284.5	9618.1	10993.9	12625.2	12604.3	9641.5
47.5°	9928.2	9930.8	9873.4	9829.1	9654.5	9784.9	9894.3	11121.6	13125.5	13091.6	9790.0
50°	10173.1	10139.2	10306.0	10402.4	10412.8	10147.0	10110.6	11191.9	13388.6	13240.1	9938.6
52.5°	9292.3	9323.6	9586.8	10160.0	10491.0	10519.6	10363.3	11337.9	13495.5	13464.2	10058.4
55°	7478.7	7629.8	8062.4	8724.3	9508.6	10371.1	10637.0	11489.1	13552.8	13526.8	10590.0
56°	6574.4	6691.8	7254.6	7773.1	8758.2	9831.7	10465.0	11650.6	13597.1	13719.6	10715.1
57.5°	5292.4	5427.9	5831.8	6420.7	7582.9	8805.0	9990.7	11452.6	13425.1	13472.1	10806.3
60°	3309.4	3322.4	3807.1	4195.3	5013.6	6207.1	7624.6	9964.6	12424.5	12356.7	9706.7
62.5°	2170.6	2173.2	2613.7	2931.6	3304.2	3577.8	4487.2	6608.3	9167.2	9047.4	6910.6
65°	1524.4	1558.3	1899.7	2324.4	2475.5	2332.2	2303.5	3484.0	5120.4	4948.4	3713.3
67.5°	1115.3	1117.9	1420.2	1876.2	2095.1	1774.6	1441.1	1701.6	2027.3	2022.1	1719.8
70°	737.5	768.7	1000.6	1401.9	1652.1	1425.4	1177.8	1216.9	1289.8	1289.8	1279.4
72.5°	429.9	458.6	612.3	888.6	927.7	891.2	932.9	1042.3	1089.3	1086.7	1073.6
75°	245.0	257.9	291.8	370.0	461.2	544.6	685.3	789.5	836.5	865.1	831.2
77.5°	143.3	151.1	172.0	211.1	239.8	294.4	372.6	445.6	508.1	500.3	505.5
80°	75.6	75.6	96.4	125.1	166.8	208.5	247.6	289.2	323.1	330.9	338.8
82.5°	44.3	46.9	62.6	91.2	119.8	148.5	190.2	218.9	250.2	252.8	257.9
85°	23.5	26.1	39.1	60.0	80.8	91.2	93.8	88.6	96.4	91.2	104.2
87.5°	7.8	7.8	13.0	10.4	10.4	13.0	15.6	15.6	20.9	20.9	20.9
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°	3846.1	3846.1	3846.1	3846.1	3846.1	3846.1	3846.1	3846.1	3846.1	3846.1	3846.1
2.5°	3867.0	3867.0	3822.8	3739.3	3726.3	3692.4	3661.1	3658.6	3635.1	3614.3	3603.9
5°	3940.0	3859.2	3794.1	3718.5	3629.9	3588.2	3541.3	3489.2	3468.4	3489.2	3486.6
7.5°	4023.3	3955.6	3760.2	3619.5	3517.8	3476.2	3424.0	3369.3	3374.5	3374.5	3338.0
10°	4104.2	4012.9	3700.2	3520.4	3371.9	3340.6	3312.0	3332.8	3358.9	3364.1	3340.6
12.5°	4239.6	4033.8	3671.6	3421.4	3327.6	3259.9	3278.1	3335.4	3390.2	3374.5	3392.8
15°	4341.2	4052.0	3541.3	3319.8	3202.5	3233.8	3299.0	3338.0	3429.3	3418.8	3437.1
17.5°	4440.3	4062.5	3413.6	3184.3	3134.8	3220.8	3270.3	3382.3	3411.0	3473.6	3497.0
20°	4643.6	4083.3	3283.3	3100.9	3085.3	3184.3	3270.3	3322.4	3384.9	3439.7	3439.7
22.5°	4747.8	4072.9	3197.3	2991.4	3041.0	3103.5	3181.7	3270.3	3270.3	3322.4	3325.0
25°	4878.1	4031.2	3061.8	2939.4	2975.9	3035.8	3124.4	3093.1	3127.0	3127.0	3168.6
27.5°	5026.6	3942.6	2944.6	2845.5	2918.5	2983.6	2996.7	2975.9	2936.8	2931.6	2915.9
30°	5146.5	3833.1	2858.6	2814.2	2874.2	2910.7	2869.0	2824.7	2757.0	2751.8	2715.3
32.5°	5310.7	3697.6	2751.8	2736.1	2803.9	2806.5	2793.5	2725.7	2626.7	2585.0	2543.3
35°	5586.8	3619.5	2670.9	2694.4	2715.3	2707.4	2684.0	2611.1	2512.0	2493.7	2478.1
37.5°	5790.1	3562.1	2587.6	2616.3	2634.5	2644.9	2574.6	2493.7	2496.3	2459.9	2449.5
40°	6019.5	3525.6	2519.8	2532.8	2535.4	2569.3	2483.3	2444.3	2462.5	2439.1	2454.7
42.5°	6313.9	3536.1	2449.5	2439.1	2488.5	2475.5	2433.9	2381.7	2392.1	2321.7	2332.2
45°	6470.2	3606.5	2407.8	2360.9	2415.6	2413.0	2358.2	2308.7	2246.2	2110.7	2116.0
47.5°	6574.4	3624.7	2308.7	2277.5	2334.8	2368.7	2306.1	2191.5	2102.9	2006.5	1983.0
50°	6681.3	3658.6	2261.9	2196.7	2220.2	2300.9	2222.8	2113.3	2027.3	1941.4	1954.4
52.5°	6775.1	3723.7	2170.6	2074.2	2116.0	2204.5	2162.8	2029.9	1936.2	1865.8	1844.9
55°	7192.1	3869.6	2016.9	1891.8	1990.8	2102.9	2079.5	1917.9	1816.2	1779.8	1774.6
56°	7257.2	3874.8	1936.2	1829.3	1920.5	2069.0	2040.4	1868.4	1777.2	1719.8	1722.5
57.5°	7267.6	3812.3	1821.4	1772.0	1850.1	2019.5	1983.0	1829.3	1704.2	1652.1	1636.4
60°	6394.6	2975.9	1678.1	1646.8	1738.1	1868.4	1855.3	1722.5	1581.8	1521.8	1550.5
62.5°	4359.5	2181.0	1566.1	1560.9	1607.8	1735.5	1701.6	1581.8	1464.4	1425.4	1407.2
65°	2538.1	1654.7	1456.6	1435.8	1474.9	1542.6	1566.1	1441.1	1318.5	1292.4	1284.6
67.5°	1498.3	1368.1	1315.9	1282.0	1269.1	1310.7	1328.9	1256.0	1133.5	1097.1	1128.3
70°	1253.4	1216.9	1219.5	1162.2	1130.9	1102.3	1086.7	1021.5	919.9	873.0	859.9
72.5°	1081.4	1065.8	1055.4	1003.2	974.6	909.5	841.7	776.5	701.0	661.9	664.5
75°	826.0	820.8	826.0	800.0	750.5	698.4	635.8	552.5	495.1	445.6	456.0
77.5°	492.5	508.1	516.0	505.5	484.7	437.7	398.7	344.0	289.2	250.2	245.0
80°	338.8	351.8	364.8	351.8	330.9	297.0	255.3	213.7	174.6	153.7	148.5
82.5°	257.9	271.0	278.8	265.8	239.8	203.3	174.6	145.9	114.6	93.8	88.6
85°	93.8	106.8	104.2	125.1	135.5	130.3	112.0	86.0	65.2	46.9	44.3
87.5°	26.1	23.5	26.1	26.1	26.1	23.5	20.9	20.9	20.9	13.0	10.4
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)