

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: P529518

Luminaire Tested: **GALN-SA4C-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
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-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18842 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

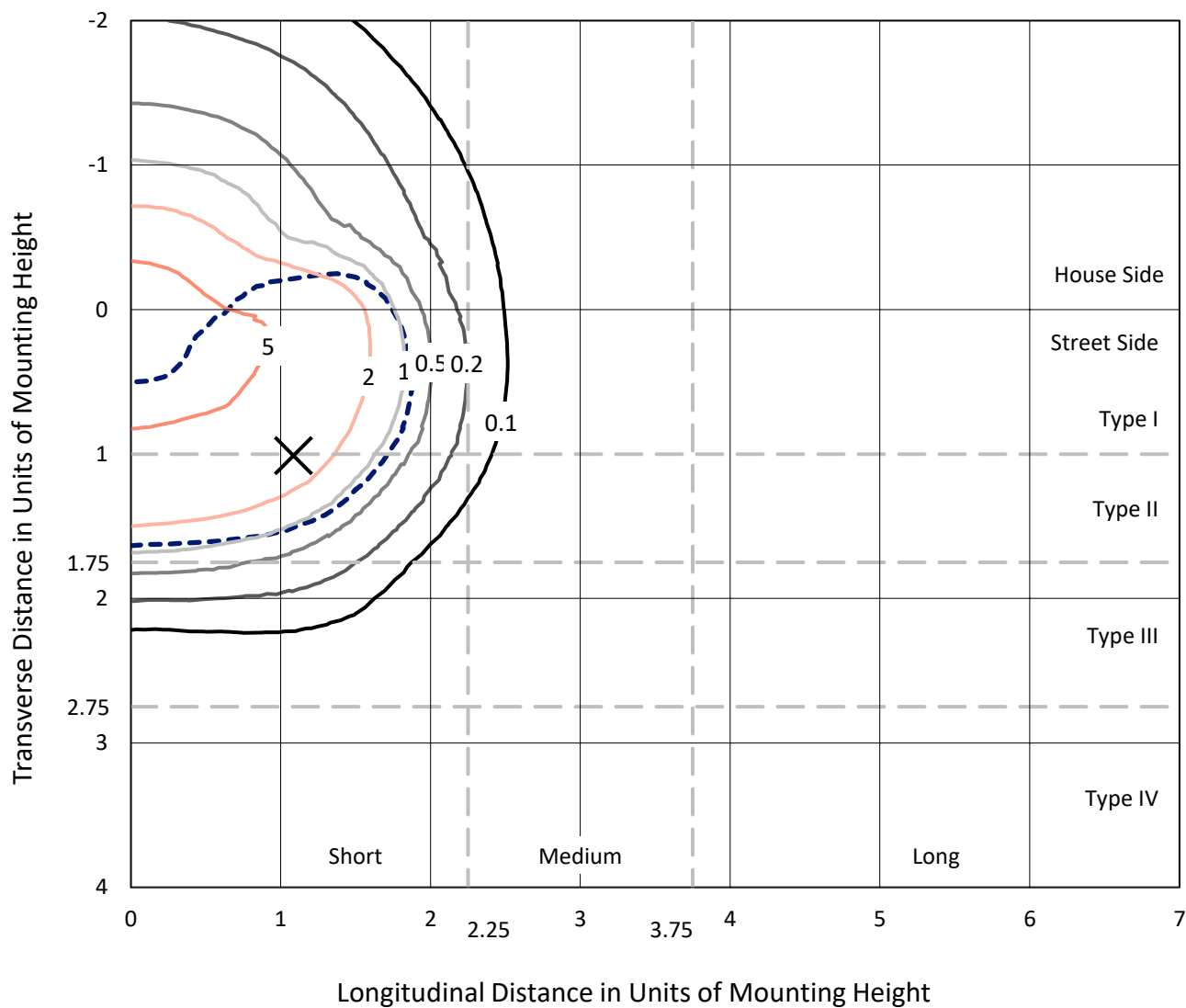
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

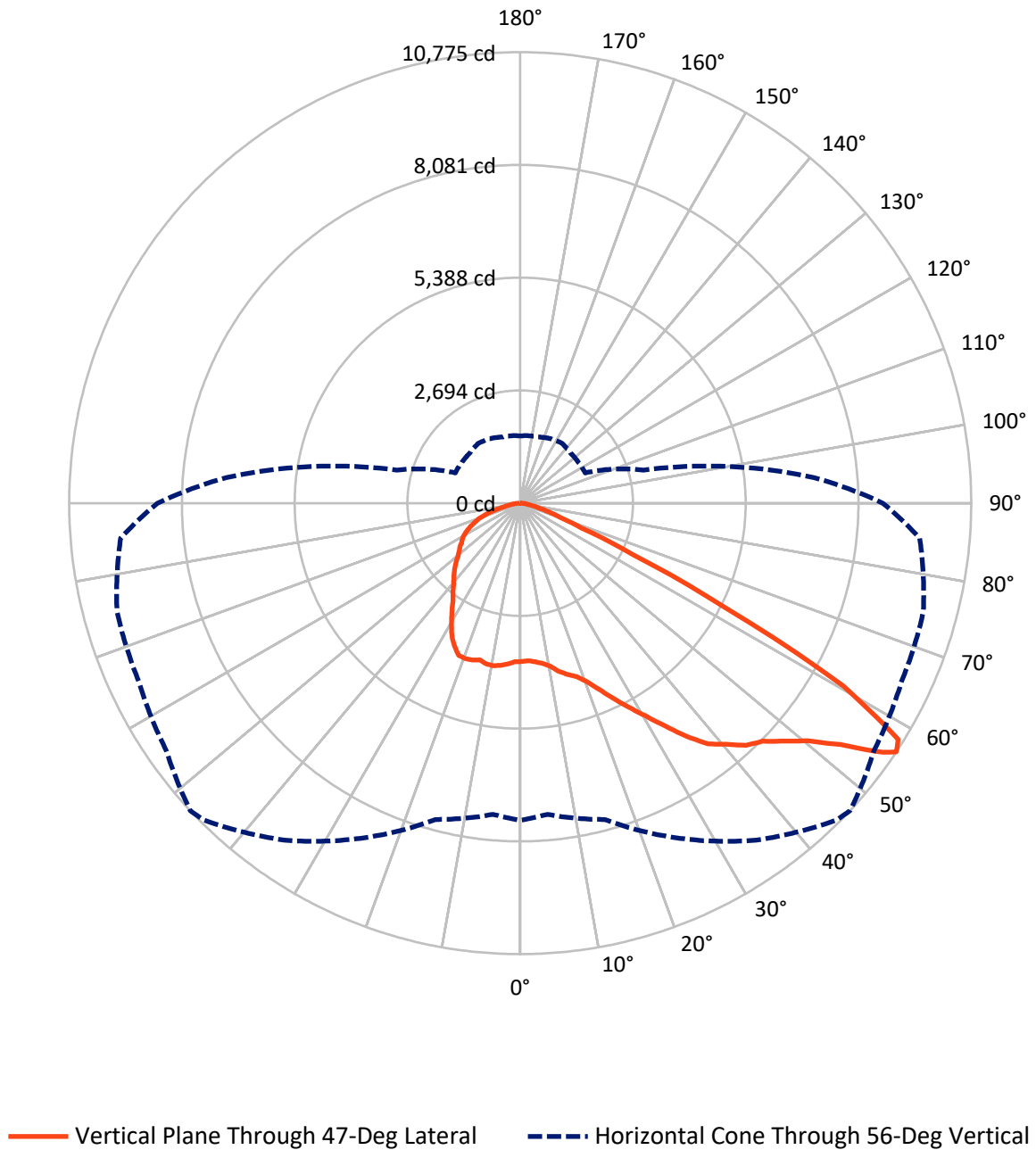
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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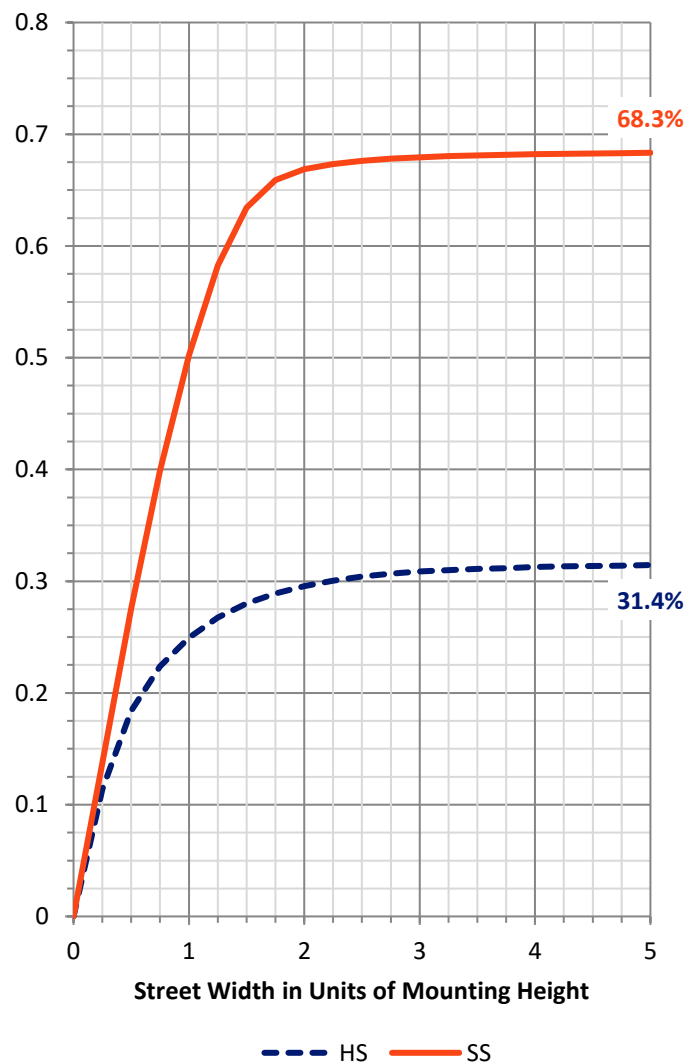
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5970.8	0.0	5970.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	12871.2	0.0	12871.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	18842.0	0.0	18842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.8	2.0
10°-20°	1163.3	6.2
20°-30°	2056.4	10.9
30°-40°	3088.7	16.4
40°-50°	4239.0	22.5
50°-60°	5050.1	26.8
60°-70°	2161.2	11.5
70°-80°	611.6	3.2
80°-90°	102.9	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°	18842.0	100.0
0°-180°	18842.0	100.0

Coefficient of Utilization



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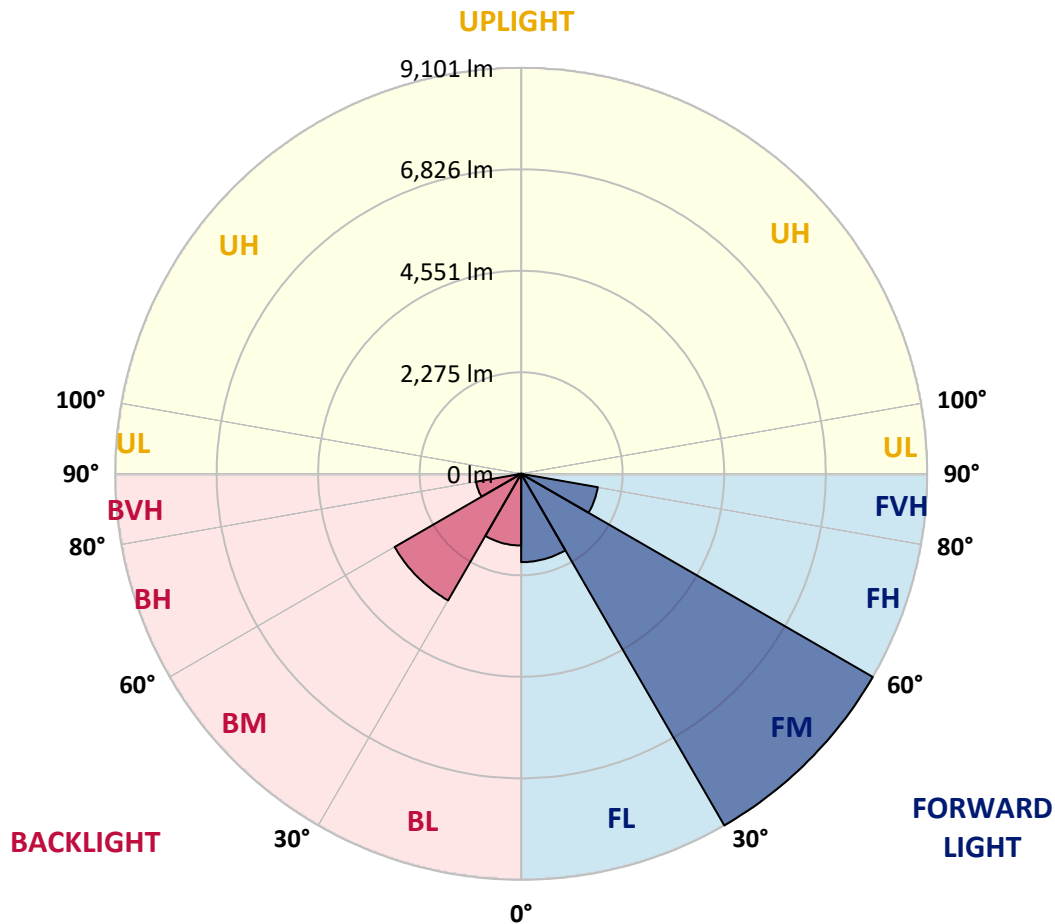
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1980.9	10.5			
FM	(30°-60°)	9101.1	48.3			
FH	(60°-80°)	1745.5	9.3			G1/1800
FVH	(80°-90°)	43.7	0.2			G1/100
BL	(0°-30°)	1607.6	8.5	B3/2500		
BM	(30°-60°)	3276.7	17.4	B3/5000		
BH	(60°-80°)	1027.3	5.5	B3/2500		G3/2500
BVH	(80°-90°)	59.2	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3784.8	3784.8	3784.8	3784.8	3784.8	3784.8	3784.8	3784.8	3784.8	3784.8	3784.8
2.5°	3770.4	3763.2	3758.4	3796.8	3782.4	3784.8	3770.4	3784.8	3794.4	3772.8	3804.0
5°	3763.2	3784.8	3765.6	3777.6	3808.8	3799.2	3808.8	3837.7	3830.4	3823.2	3813.6
7.5°	3830.4	3832.8	3847.3	3852.1	3861.7	3852.1	3866.5	3892.9	3885.7	3844.9	3849.7
10°	3926.6	3931.4	3933.8	3960.2	3977.0	3979.4	3962.6	3938.6	3936.2	3991.4	3953.0
12.5°	4037.1	4025.1	4053.9	4063.5	4082.8	4104.4	4126.0	4075.6	4106.8	4109.2	4063.5
15°	4198.1	4210.1	4176.5	4176.5	4183.7	4186.1	4246.2	4222.1	4217.3	4190.9	4210.1
17.5°	4438.4	4356.7	4354.3	4320.7	4315.9	4335.1	4356.7	4375.9	4440.8	4387.9	4284.6
20°	4613.8	4633.1	4563.4	4522.5	4529.7	4573.0	4551.4	4637.9	4683.5	4597.0	4496.1
22.5°	4923.8	4858.9	4875.8	4784.4	4791.7	4837.3	4834.9	4923.8	4950.3	4813.3	4666.7
25°	5132.9	5116.1	5130.5	5058.4	5068.0	5104.1	5161.7	5308.3	5265.1	5113.7	4774.8
27.5°	5438.1	5404.4	5392.4	5366.0	5356.4	5452.5	5519.8	5676.0	5644.7	5423.7	4967.1
30°	5750.5	5728.8	5740.9	5632.7	5671.2	5875.4	5894.7	6108.5	6094.1	5704.8	5181.0
32.5°	5966.7	5978.8	6000.4	5940.3	6110.9	6274.3	6339.2	6581.9	6593.9	6187.8	5594.3
35°	6315.2	6274.3	6286.3	6356.0	6435.3	6733.3	6839.0	7000.1	7101.0	6694.9	5990.8
37.5°	6533.9	6577.1	6526.7	6637.2	6843.9	7201.9	7298.0	7463.8	7569.6	7194.7	6531.5
40°	6875.1	6805.4	6841.5	6920.8	7132.2	7598.4	7572.0	7742.6	7776.2	7620.0	7036.1
42.5°	7242.8	7209.1	7158.7	7338.9	7516.7	7855.5	7908.4	7829.1	7999.7	8035.8	7757.0
45°	7682.5	7723.4	7730.6	7735.4	7891.6	8187.2	8115.1	8045.4	8242.4	8504.4	8204.0
47.5°	8091.0	7961.3	8055.0	8184.7	8405.8	8408.2	8492.3	8326.5	8535.6	8768.7	8607.7
50°	8228.0	8165.5	8290.5	8535.6	8876.8	8912.9	8922.5	8687.0	8795.1	8980.2	8747.1
52.5°	8175.1	8153.5	8473.1	8852.8	9352.6	9535.3	9583.3	9292.5	9352.6	9268.5	9054.6
55°	7922.8	7987.7	8309.7	9083.5	9850.1	10414.8	10506.1	10138.4	9756.3	9821.2	9585.7
56°	7576.8	7463.8	7824.3	8821.6	9828.4	10700.7	10775.2	10316.2	10056.7	9972.6	9580.9
57.5°	6428.1	6281.5	6754.9	7937.2	9282.9	10592.6	10647.9	10390.7	10006.3	9835.6	8881.6
60°	3763.2	3835.2	4436.0	5474.1	7161.1	8684.6	8869.6	9057.1	8799.9	8035.8	6610.8
62.5°	1816.7	1771.0	2201.2	3138.4	4363.9	5543.8	5488.5	6014.8	6303.2	5709.6	4174.1
65°	951.6	946.8	1201.5	1713.4	2398.2	2912.5	2962.9	3246.5	3643.0	2941.3	2119.5
67.5°	699.3	718.5	845.9	1203.9	1542.8	1574.0	1566.8	1708.6	1747.0	1477.9	1302.4
70°	547.9	557.5	651.2	915.6	1148.7	1028.5	1006.9	1023.7	1136.6	1184.7	1127.0
72.5°	396.5	406.1	485.4	617.6	718.5	701.7	716.1	809.8	949.2	999.7	939.6
75°	264.3	271.5	314.8	377.3	425.3	459.0	485.4	593.6	723.3	752.2	723.3
77.5°	182.6	189.8	218.7	266.7	271.5	293.2	302.8	353.2	432.5	468.6	449.4
80°	103.3	103.3	117.7	137.0	168.2	197.0	201.9	242.7	278.8	302.8	307.6
82.5°	48.1	50.5	62.5	84.1	110.5	137.0	141.8	168.2	194.6	218.7	225.9
85°	24.0	26.4	36.0	50.5	67.3	81.7	79.3	81.7	86.5	81.7	84.1
87.5°	7.2	7.2	9.6	12.0	9.6	12.0	12.0	14.4	16.8	19.2	21.6
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°	3784.8	3784.8	3784.8	3784.8	3784.8	3784.8	3784.8	3784.8	3784.8	3784.8	3784.8
2.5°	3806.4	3813.6	3765.6	3811.2	3794.4	3792.0	3825.6	3820.8	3832.8	3828.0	3799.2
5°	3808.8	3792.0	3842.5	3796.8	3818.4	3864.1	3832.8	3904.9	3868.9	3892.9	3840.1
7.5°	3883.3	3888.1	3878.5	3897.7	3888.1	3909.7	3892.9	3909.7	3880.9	3883.3	3931.4
10°	3948.2	3933.8	3950.6	3926.6	3943.4	3936.2	3897.7	3885.7	3895.3	3883.3	3914.5
12.5°	4068.3	4041.9	4029.9	4001.1	3981.8	3909.7	3849.7	3816.0	3861.7	3868.9	3854.5
15°	4190.9	4193.3	4138.0	4073.1	3953.0	3844.9	3859.3	3871.3	3871.3	3890.5	3854.5
17.5°	4267.8	4267.8	4217.3	4087.6	3965.0	3902.5	3888.1	3849.7	3816.0	3811.2	3808.8
20°	4402.4	4361.5	4246.2	4085.2	3960.2	3931.4	3823.2	3731.9	3662.2	3638.2	3635.8
22.5°	4556.2	4452.8	4291.8	4090.0	3953.0	3912.1	3710.3	3573.3	3448.4	3395.5	3402.7
25°	4697.9	4532.1	4318.3	4068.3	3926.6	3729.5	3503.6	3313.8	3184.0	3140.8	3119.1
27.5°	4796.5	4616.2	4318.3	4087.6	3828.0	3525.3	3294.6	3051.9	2938.9	2910.1	2914.9
30°	4928.6	4722.0	4392.8	4046.7	3631.0	3260.9	2984.6	2826.0	2758.7	2734.7	2751.5
32.5°	5238.6	4998.3	4496.1	3948.2	3397.9	2996.6	2773.1	2684.2	2585.7	2537.6	2520.8
35°	5575.0	5260.3	4597.0	3782.4	3136.0	2756.3	2616.9	2535.2	2417.5	2364.6	2374.2
37.5°	6050.9	5596.7	4604.2	3508.4	2852.4	2621.7	2494.4	2367.0	2270.9	2189.2	2165.1
40°	6692.5	6055.7	4587.4	3220.1	2624.1	2463.1	2369.4	2210.8	2102.7	2045.0	2057.0
42.5°	7257.2	6593.9	4517.7	2893.3	2417.5	2355.0	2249.2	2093.0	1987.3	1927.2	1922.4
45°	7733.0	6990.4	4385.5	2614.5	2244.4	2234.8	2112.3	1992.1	1908.0	1852.7	1876.8
47.5°	8172.7	7310.0	4186.1	2335.8	2085.8	2105.1	1987.3	1912.8	1860.0	1809.5	1807.1
50°	8331.3	7305.2	4010.7	2105.1	1958.5	1948.9	1944.1	1864.8	1809.5	1766.2	1785.5
52.5°	8595.7	7386.9	3820.8	1946.5	1843.1	1845.5	1862.4	1804.7	1742.2	1715.8	1739.8
55°	8975.3	7399.0	3402.7	1761.4	1747.0	1763.8	1763.8	1725.4	1672.5	1650.9	1638.9
56°	8665.4	7040.9	3051.9	1713.4	1698.9	1698.9	1744.6	1701.4	1636.5	1619.6	1605.2
57.5°	7992.5	6168.6	2554.4	1655.7	1634.1	1667.7	1691.7	1646.1	1586.0	1562.0	1576.4
60°	5512.6	4174.1	1920.0	1530.7	1530.7	1586.0	1605.2	1537.9	1511.5	1509.1	1489.9
62.5°	3217.7	2431.9	1501.9	1417.8	1422.6	1468.3	1482.7	1444.2	1410.6	1451.4	1470.7
65°	1706.2	1451.4	1288.0	1297.6	1300.0	1336.1	1398.6	1396.2	1393.8	1405.8	1408.2
67.5°	1235.2	1206.3	1170.3	1160.7	1165.5	1191.9	1254.4	1302.4	1300.0	1271.2	1249.6
70°	1100.6	1059.7	1038.1	1040.5	1021.3	1052.5	1103.0	1134.2	1079.0	1045.3	1030.9
72.5°	915.6	903.5	889.1	891.5	853.1	845.9	788.2	788.2	773.8	764.2	781.0
75°	699.3	694.5	701.7	689.7	648.8	605.6	571.9	540.7	492.6	473.4	463.8
77.5°	442.2	456.6	473.4	447.0	430.1	398.9	365.3	334.0	295.6	273.9	273.9
80°	300.4	312.4	324.4	319.6	300.4	271.5	245.1	211.5	185.0	168.2	165.8
82.5°	228.3	237.9	254.7	235.5	216.3	192.2	170.6	146.6	122.6	103.3	103.3
85°	81.7	93.7	103.3	112.9	120.2	122.6	105.7	86.5	69.7	55.3	52.9
87.5°	21.6	24.0	26.4	24.0	24.0	24.0	26.4	24.0	21.6	16.8	16.8
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)