

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: P950938

Luminaire Tested: **GALN-SB5B-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27085 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 182.7
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



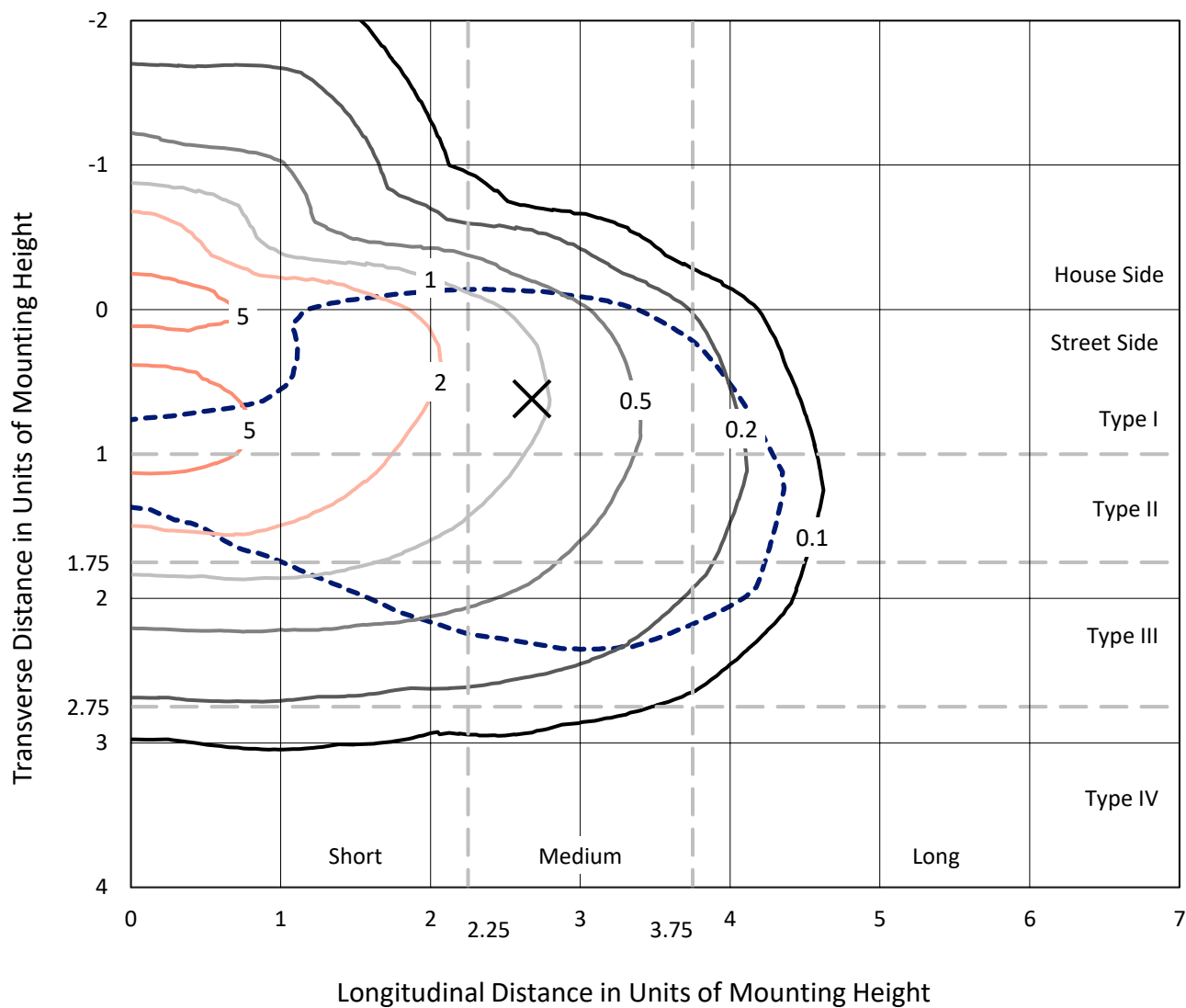
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

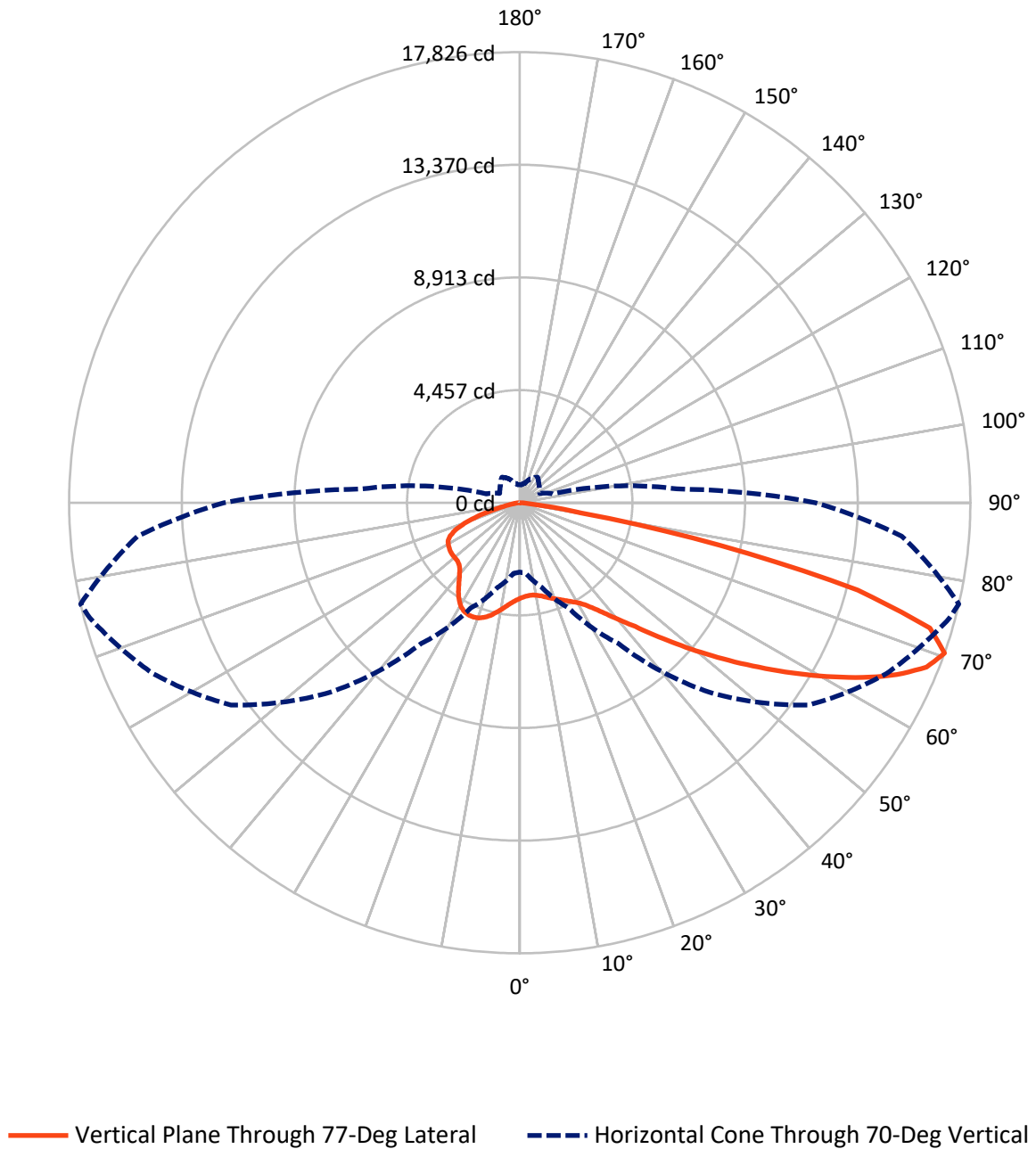


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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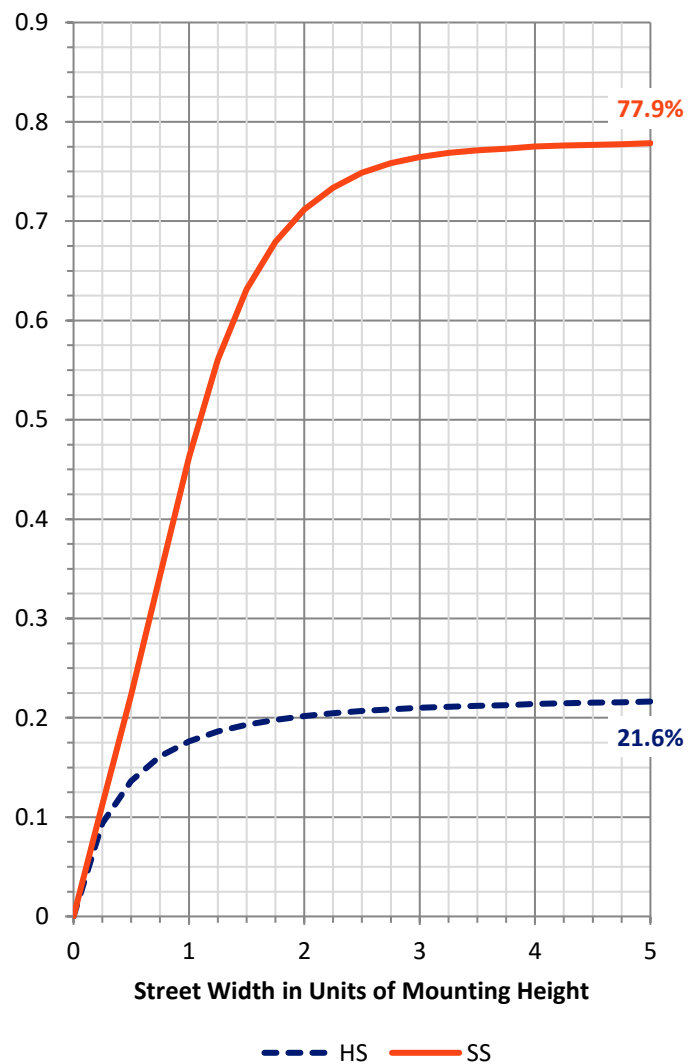
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5931.2	0.0	5931.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	21153.8	0.0	21153.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	27085.0	0.0	27085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.4	1.3
10°-20°	1040.1	3.8
20°-30°	1778.7	6.6
30°-40°	2860.3	10.6
40°-50°	4465.7	16.5
50°-60°	5965.1	22.0
60°-70°	6357.9	23.5
70°-80°	3913.9	14.5
80°-90°	343.0	1.3
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°	27085.0	100.0
0°-180°	27085.0	100.0

Coefficient of Utilization



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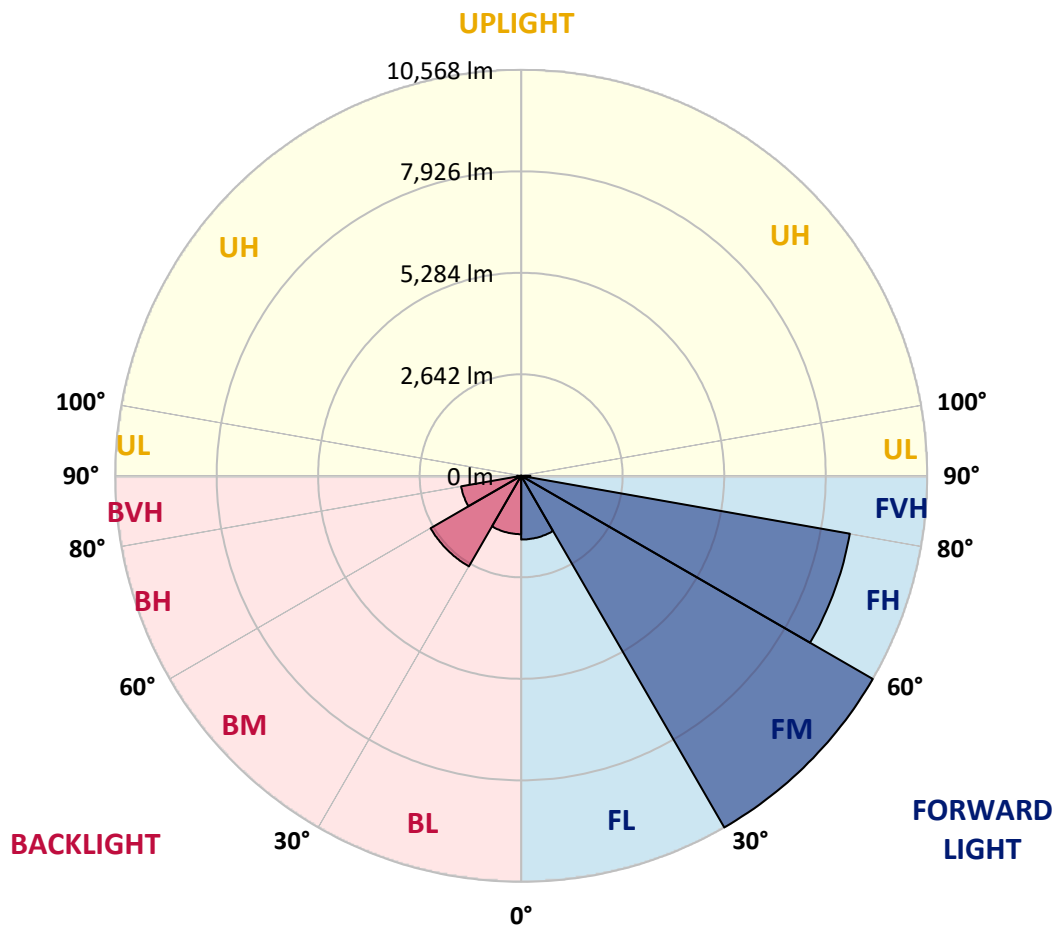
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1659.4	6.1			
FM	(30°-60°)	10568.0	39.0			
FH	(60°-80°)	8686.6	32.1			G4/12000
FVH	(80°-90°)	239.8	0.9			G3/500
BL	(0°-30°)	1519.8	5.6	B3/2500		
BM	(30°-60°)	2723.1	10.1	B3/5000		
BH	(60°-80°)	1585.2	5.9	B3/2500		G3/2500
BVH	(80°-90°)	103.1	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6
2.5°	3483.1	3481.8	3499.8	3505.3	3538.6	3562.2	3606.6	3653.8	3714.8	3721.7	3759.2
5°	3282.0	3282.0	3302.8	3325.0	3368.0	3415.2	3483.1	3565.0	3670.4	3687.1	3780.0
7.5°	3111.4	3122.5	3140.5	3183.5	3233.5	3301.4	3405.5	3522.0	3660.7	3687.1	3836.9
10°	2974.1	2986.5	3008.7	3043.4	3118.3	3212.6	3348.6	3498.4	3684.3	3725.9	3920.1
12.5°	2931.1	2943.5	2956.0	2982.4	3051.7	3162.7	3325.0	3509.5	3741.2	3782.8	4033.8
15°	3030.9	3046.2	3036.5	3029.5	3065.6	3166.9	3336.1	3549.7	3811.9	3871.5	4173.9
17.5°	3261.2	3266.7	3244.6	3179.4	3173.8	3227.9	3388.8	3605.2	3900.7	3965.9	4315.4
20°	3633.0	3623.2	3577.5	3448.5	3374.9	3363.8	3479.0	3688.4	3992.2	4061.6	4468.0
22.5°	4137.9	4126.8	4035.2	3831.3	3667.6	3559.4	3609.4	3796.6	4094.9	4172.6	4616.4
25°	4767.6	4752.4	4617.8	4340.4	4086.6	3818.8	3786.9	3939.5	4221.1	4293.2	4771.8
27.5°	5502.8	5490.4	5344.7	4978.5	4612.3	4173.9	4007.5	4107.4	4352.9	4434.7	4946.6
30°	6293.5	6329.6	6071.6	5677.6	5214.3	4637.3	4304.3	4314.0	4523.5	4597.0	5158.8
32.5°	7222.9	7285.3	6974.6	6475.2	5842.7	5140.8	4678.9	4602.6	4771.8	4832.8	5426.5
35°	8144.0	8214.7	7956.7	7404.6	6676.4	5734.5	5070.0	4934.1	5101.9	5168.5	5781.7
37.5°	8940.2	9034.5	8901.4	8421.4	7568.3	6450.3	5580.5	5323.9	5508.4	5591.6	6258.8
40°	9568.6	9712.8	9703.1	9403.5	8619.8	7318.6	6228.3	5805.2	6013.3	6103.5	6837.3
42.5°	10079.1	10203.9	10312.1	10296.8	9717.0	8304.9	6989.9	6430.8	6589.0	6693.0	7487.9
45°	10431.4	10564.6	10797.6	11048.7	10772.6	9360.5	7862.4	7173.0	7317.2	7474.0	8263.3
47.5°	10746.3	10897.5	11199.9	11598.0	11668.7	10420.3	8818.1	8037.2	8168.9	8331.2	9041.5
50°	10774.0	10904.4	11373.3	11937.8	12305.4	11438.5	9844.6	9006.8	9130.2	9303.6	9875.1
52.5°	10104.0	10309.3	11127.7	11928.1	12598.1	12290.2	10864.2	10015.2	10154.0	10362.0	10738.0
55°	7843.0	8144.0	10407.8	11556.4	12494.1	12840.9	11833.8	11087.5	11265.1	11482.9	11606.3
57.5°	6755.4	6887.2	8261.9	10879.4	12019.7	12983.8	12652.2	12170.9	12456.6	12695.2	12524.6
60°	6071.6	6181.2	6994.0	9826.6	11395.5	12757.6	13284.8	13180.7	13674.6	13958.9	13463.7
62.5°	5339.2	5443.2	6182.5	8205.0	10596.5	12381.7	13684.3	14112.9	14923.0	15233.7	14348.7
65°	4612.3	4701.1	5409.9	6894.2	9581.1	12005.8	13890.9	14918.8	16078.5	16400.3	15083.9
67.5°	3802.2	3875.7	4545.7	5816.3	8346.5	11491.2	13993.6	15552.8	17084.2	17360.2	15447.3
70°	2743.8	2800.7	3492.9	4599.8	6797.0	10606.2	13952.0	16002.2	17605.7	17826.3	15172.7
72.5°	1297.0	1348.3	2161.2	2986.5	4800.9	8883.3	13110.0	15645.7	17075.9	16966.3	13491.4
75°	692.2	736.6	1241.5	1638.2	2535.7	6089.6	10728.2	13477.6	14339.0	13806.3	9970.9
77.5°	468.9	503.5	768.5	983.5	1158.3	2890.8	6895.5	9331.4	8977.7	8098.2	4993.8
80°	371.8	407.8	629.8	665.8	560.4	1044.5	2849.2	4319.6	3103.1	2481.6	1420.4
82.5°	285.8	326.0	529.9	482.7	305.2	428.6	829.5	1366.3	794.8	604.8	344.0
85°	174.8	217.8	416.1	307.9	172.0	195.6	281.6	380.1	242.8	202.5	123.5
87.5°	88.8	124.8	210.8	112.4	77.7	45.8	74.9	74.9	63.8	55.5	31.9
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°	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6
2.5°	3792.5	3820.2	3867.4	3911.8	3946.5	3979.7	4013.0	4031.1	4036.6	4058.8	4071.3
5°	3836.9	3888.2	3979.7	4065.7	4119.8	4153.1	4176.7	4190.6	4193.4	4200.3	4211.4
7.5°	3918.7	4000.5	4128.2	4214.2	4254.4	4251.6	4241.9	4207.2	4193.4	4180.9	4183.7
10°	4033.8	4142.0	4298.8	4358.4	4333.5	4266.9	4180.9	4079.6	4032.5	3986.7	3972.8
12.5°	4176.7	4314.0	4468.0	4465.2	4341.8	4171.2	3971.4	3816.1	3717.6	3646.8	3630.2
15°	4350.1	4508.2	4626.2	4531.8	4261.3	3954.8	3662.1	3459.6	3370.8	3293.1	3284.8
17.5°	4529.1	4698.3	4752.4	4511.0	4058.8	3634.3	3302.8	3143.3	3055.9	3014.3	3026.8
20°	4703.8	4871.7	4827.3	4391.7	3750.9	3270.9	2975.4	2888.1	2870.0	2879.7	2875.6
22.5°	4888.3	5038.1	4842.6	4161.5	3358.3	2899.1	2736.9	2739.6	2779.9	2809.0	2815.9
25°	5077.0	5178.2	4802.3	3828.5	2936.6	2625.9	2585.7	2630.0	2709.1	2766.0	2781.2
27.5°	5258.7	5303.1	4714.9	3416.6	2574.6	2430.3	2437.2	2528.8	2648.1	2727.1	2746.6
30°	5464.0	5414.1	4547.1	2953.2	2323.5	2262.4	2320.7	2427.5	2546.8	2617.6	2634.2
32.5°	5695.6	5509.8	4280.8	2524.6	2145.9	2127.9	2223.6	2293.0	2345.7	2366.5	2377.6
35°	5984.2	5644.3	3939.5	2223.6	1986.4	2029.4	2121.0	2086.3	2065.5	2054.4	2065.5
37.5°	6358.7	5826.0	3540.0	2028.0	1857.4	1958.7	1996.1	1887.9	1806.1	1765.8	1775.6
40°	6809.5	6092.4	3155.8	1876.8	1775.6	1897.6	1832.4	1702.0	1598.0	1541.1	1545.3
42.5°	7310.3	6371.2	2832.6	1763.1	1729.8	1847.7	1711.7	1556.4	1388.5	1370.5	1388.5
45°	7836.0	6658.3	2612.0	1675.7	1707.6	1804.7	1642.4	1391.3	1272.0	1345.5	1384.4
47.5°	8361.8	6921.9	2478.8	1610.5	1696.5	1756.1	1581.4	1299.8	1215.1	1322.0	1371.9
50°	8947.1	7157.7	2419.2	1563.3	1684.0	1736.7	1489.8	1276.2	1155.5	1226.2	1279.0
52.5°	9528.4	7340.8	2374.8	1516.2	1666.0	1721.5	1445.4	1248.4	1083.4	1087.5	1116.7
55°	10108.2	7460.1	2326.3	1453.7	1625.7	1688.2	1441.3	1217.9	1029.3	1009.8	1023.7
57.5°	10726.9	7528.1	2266.6	1384.4	1556.4	1603.5	1437.1	1194.3	1012.6	980.7	984.9
60°	11356.6	7628.0	2188.9	1299.8	1463.4	1502.3	1427.4	1186.0	1002.9	948.8	953.0
62.5°	11921.2	7662.6	2096.0	1219.3	1344.2	1402.4	1406.6	1179.1	976.6	883.6	883.6
65°	12291.6	7512.8	1933.7	1127.8	1215.1	1299.8	1366.3	1155.5	929.4	836.5	836.5
67.5°	12276.3	7085.6	1679.8	1009.8	1090.3	1186.0	1308.1	1115.3	872.5	778.2	782.4
70°	11704.8	6242.2	1358.0	872.5	953.0	1063.9	1233.2	1055.6	804.5	714.4	722.7
72.5°	10038.8	4885.6	986.3	711.6	793.5	937.7	1136.1	983.5	735.2	657.5	653.3
75°	7171.6	3092.0	668.6	546.5	617.3	794.8	1015.4	898.9	671.4	660.3	622.8
77.5°	3663.5	1477.3	442.5	399.5	430.0	627.0	853.1	803.2	681.1	545.2	485.5
80°	1191.6	545.2	278.8	271.9	285.8	417.5	660.3	658.9	516.0	370.4	327.4
82.5°	380.1	234.4	181.7	174.8	167.8	262.2	460.5	521.6	348.2	234.4	233.0
85°	151.2	140.1	106.8	98.5	70.7	123.5	241.4	346.8	259.4	169.2	173.4
87.5°	55.5	55.5	29.1	20.8	15.3	41.6	65.2	104.0	148.4	87.4	86.0
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)