

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: P955957

Luminaire Tested: **GALN-SB8D-730-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955957
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-SB8D-730-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 84474 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 584.9
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

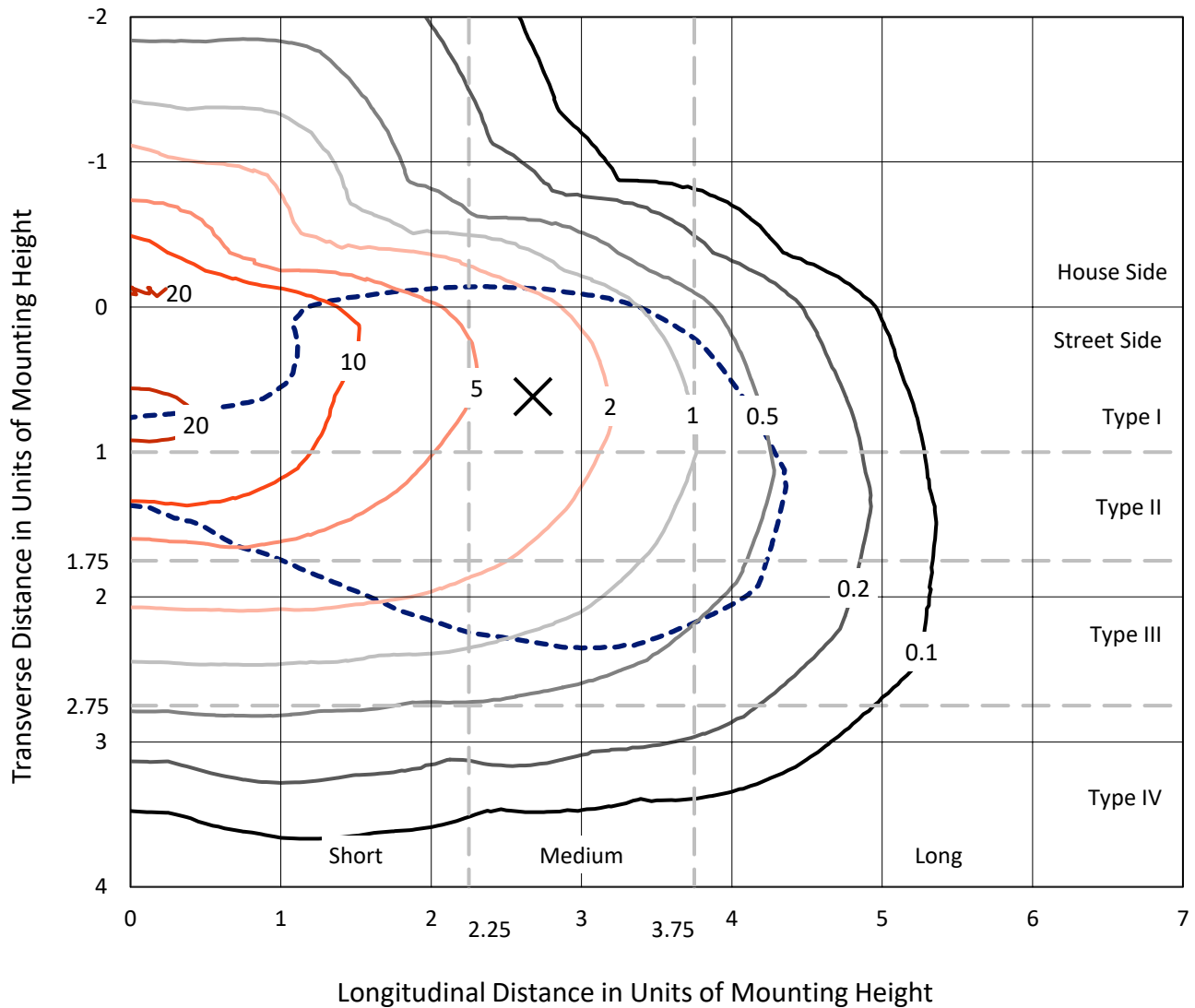


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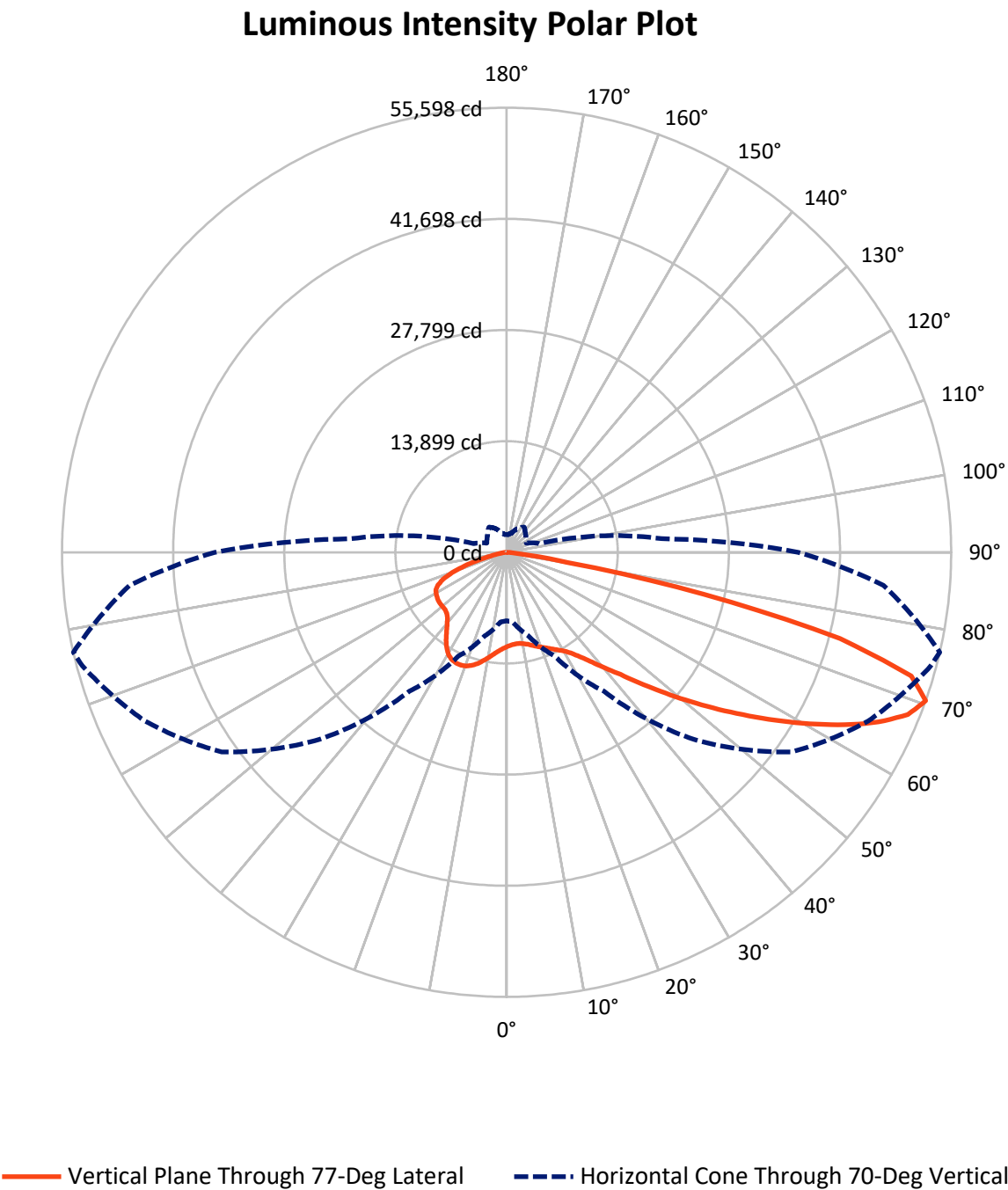
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 fc
Type III - Medium - N/A

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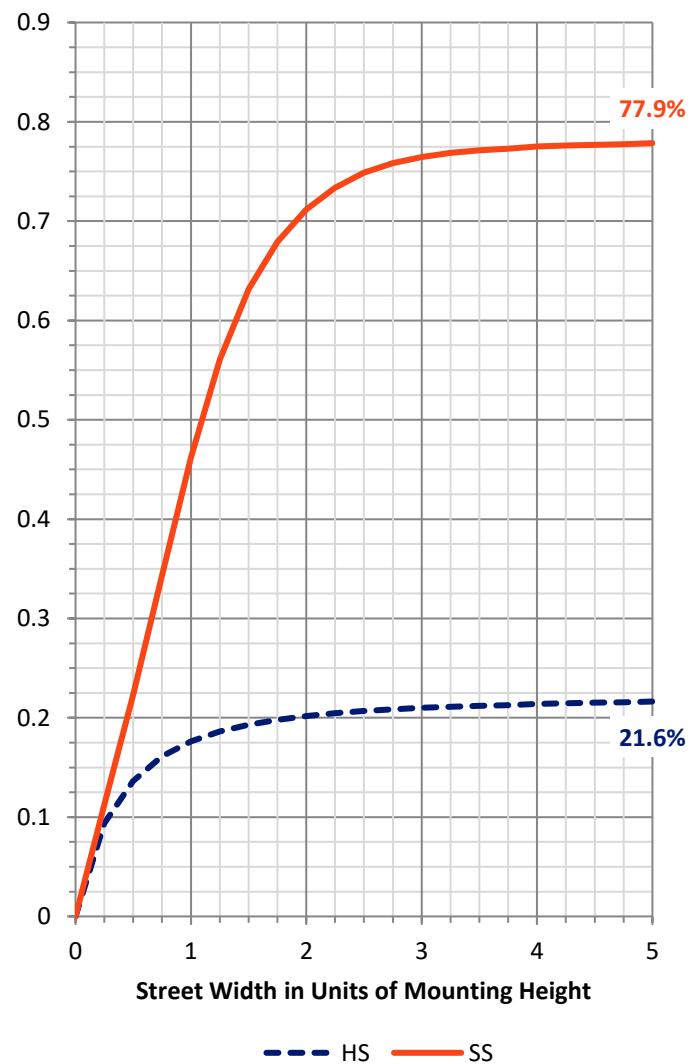
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18498.5	0.0	18498.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	65975.5	0.0	65975.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	84474.0	0.0	84474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1124.0	1.3
10°-20°	3243.9	3.8
20°-30°	5547.5	6.6
30°-40°	8920.9	10.6
40°-50°	13927.8	16.5
50°-60°	18604.3	22.0
60°-70°	19829.3	23.5
70°-80°	12206.8	14.5
80°-90°	1069.6	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°	84474.0	100.0
0°-180°	84474.0	100.0

Coefficient of Utilization



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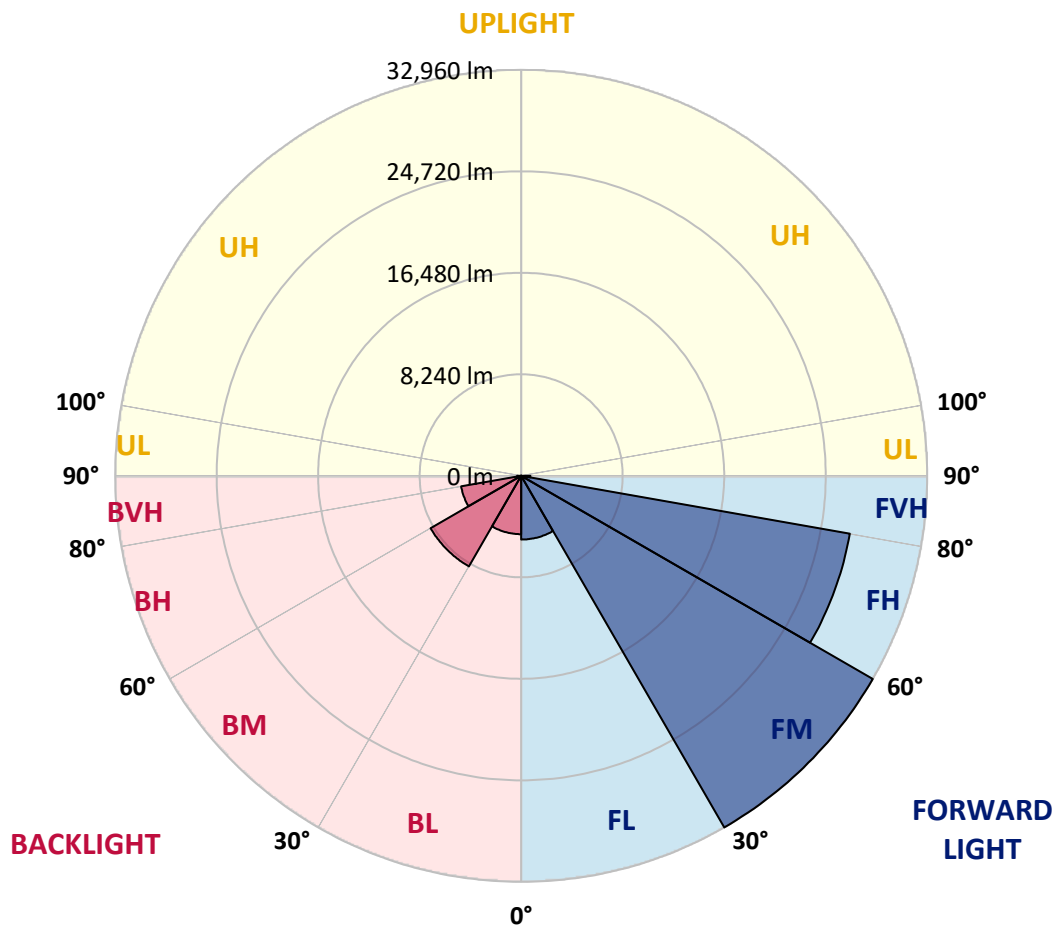
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5175.4	6.1			
FM	(30°-60°)	32959.9	39.0			
FH	(60°-80°)	27092.2	32.1			G5
FVH	(80°-90°)	748.0	0.9			G4/750
BL	(0°-30°)	4739.9	5.6	B4/5000		
BM	(30°-60°)	8493.1	10.1	B4/8500		
BH	(60°-80°)	4943.9	5.9	B4/5000		G4/5000
BVH	(80°-90°)	321.7	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	11784.9	11784.9	11784.9	11784.9	11784.9	11784.9	11784.9	11784.9	11784.9	11784.9	11784.9
2.5°	10863.4	10859.1	10915.3	10932.6	11036.4	11110.0	11248.4	11395.5	11585.9	11607.5	11724.3
5°	10236.1	10236.1	10301.0	10370.2	10504.3	10651.4	10863.4	11118.6	11447.4	11499.4	11789.2
7.5°	9703.9	9738.5	9794.8	9928.9	10084.7	10296.6	10621.1	10984.5	11417.2	11499.4	11966.6
10°	9275.6	9314.6	9383.8	9491.9	9725.6	10019.8	10443.7	10911.0	11490.7	11620.5	12226.2
12.5°	9141.5	9180.4	9219.4	9301.6	9517.9	9864.0	10370.2	10945.6	11668.1	11797.9	12580.9
15°	9453.0	9500.6	9470.3	9448.7	9561.2	9877.0	10404.8	11071.1	11888.7	12074.8	13017.9
17.5°	10171.2	10188.5	10119.3	9915.9	9898.6	10067.3	10569.2	11244.1	12165.6	12368.9	13459.2
20°	11330.6	11300.3	11157.6	10755.2	10525.9	10491.3	10850.4	11503.7	12451.1	12667.5	13935.1
22.5°	12905.4	12870.8	12585.3	11949.3	11438.8	11101.3	11257.1	11841.1	12771.3	13013.6	14398.0
25°	14869.6	14822.0	14402.3	13537.1	12745.3	11910.4	11810.9	12286.7	13165.0	13390.0	14882.5
27.5°	17162.5	17123.6	16669.3	15527.2	14385.0	13017.9	12498.7	12810.2	13576.0	13831.2	15427.7
30°	19628.5	19741.0	18936.3	17707.6	16262.6	14462.9	13424.6	13454.9	14108.1	14337.4	16089.6
32.5°	22527.1	22721.8	21752.7	20195.3	18222.5	16033.3	14592.7	14354.7	14882.5	15072.9	16924.6
35°	25399.8	25620.5	24815.8	23093.9	20822.6	17885.0	15812.7	15388.7	15912.2	16119.9	18032.1
37.5°	27883.1	28177.3	27762.0	26265.1	23604.4	20117.4	17404.8	16604.4	17179.8	17439.4	19520.4
40°	29843.0	30292.9	30262.6	29328.1	26883.7	22825.7	19425.2	18105.6	18754.6	19035.8	21324.4
42.5°	31435.0	31824.4	32161.9	32114.3	30305.9	25901.7	21800.3	20056.8	20550.0	20874.5	23353.5
45°	32533.9	32949.2	33676.1	34459.1	33598.2	29194.0	24521.6	22371.4	22821.3	23310.2	25771.9
47.5°	33516.0	33987.6	34930.7	36172.4	36393.0	32499.3	27502.4	25066.7	25477.7	25983.9	28198.9
50°	33602.5	34009.2	35471.5	37232.3	38378.8	35674.8	30703.9	28090.8	28475.8	29016.6	30799.1
52.5°	31512.9	32153.2	34705.7	37202.0	39291.6	38331.2	33883.7	31236.0	31668.7	32317.6	33490.0
55°	24461.0	25399.8	32460.4	36042.6	38967.2	40048.7	36907.8	34580.3	35134.0	35813.3	36198.3
57.5°	21069.2	21480.2	25767.6	33931.3	37487.6	40494.3	39460.4	37959.1	38850.3	39594.5	39062.3
60°	18936.3	19278.1	21813.3	30647.6	35540.7	39789.2	41433.2	41108.7	42648.9	43535.8	41991.3
62.5°	16652.0	16976.5	19282.4	25590.2	33048.8	38616.7	42679.1	44016.0	46542.5	47511.6	44751.4
65°	14385.0	14661.9	16872.6	21501.8	29881.9	37444.3	43323.8	46529.6	50146.4	51150.1	47044.4
67.5°	11858.4	12087.7	14177.3	18140.3	26031.5	35839.2	43643.9	48506.7	53282.9	54143.9	48177.9
70°	8557.5	8734.8	10893.7	14346.1	21199.0	33079.0	43514.1	49908.4	54909.6	55597.5	47321.3
72.5°	4045.1	4205.2	6740.4	9314.6	14973.4	27705.7	40888.0	48796.6	53257.0	52915.2	42077.8
75°	2158.8	2297.3	3872.1	5109.4	7908.5	18992.5	33459.8	42034.5	44721.2	43059.9	31097.6
77.5°	1462.3	1570.5	2396.8	3067.4	3612.5	9016.0	21506.1	29103.1	27999.9	25257.1	15574.7
80°	1159.5	1271.9	1964.1	2076.6	1747.8	3257.7	8886.3	13472.2	9678.0	7739.8	4430.2
82.5°	891.2	1016.7	1652.7	1505.6	951.8	1336.8	2587.1	4261.4	2479.0	1886.3	1072.9
85°	545.1	679.2	1297.9	960.4	536.5	610.0	878.2	1185.4	757.1	631.6	385.0
87.5°	276.9	389.4	657.6	350.4	242.3	142.8	233.6	233.6	199.0	173.1	99.5
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°	11784.9	11784.9	11784.9	11784.9	11784.9	11784.9	11784.9	11784.9	11784.9	11784.9	11784.9
2.5°	11828.2	11914.7	12061.8	12200.2	12308.4	12412.2	12516.0	12572.3	12589.6	12658.8	12697.7
5°	11966.6	12126.7	12412.2	12680.4	12849.2	12953.0	13026.5	13069.8	13078.5	13100.1	13134.7
7.5°	12221.9	12477.1	12875.1	13143.4	13268.8	13260.2	13229.9	13121.7	13078.5	13039.5	13048.2
10°	12580.9	12918.4	13407.3	13593.3	13515.4	13307.8	13039.5	12723.7	12576.6	12433.8	12390.6
12.5°	13026.5	13454.9	13935.1	13926.4	13541.4	13009.2	12386.3	11901.7	11594.5	11373.9	11322.0
15°	13567.3	14060.5	14428.3	14134.1	13290.5	12334.3	11421.5	10789.8	10513.0	10270.7	10244.7
17.5°	14125.4	14653.2	14822.0	14069.2	12658.8	11335.0	10301.0	9803.4	9530.9	9401.1	9440.0
20°	14670.5	15194.0	15055.6	13697.1	11698.4	10201.5	9280.0	9007.4	8951.2	8981.4	8968.5
22.5°	15245.9	15713.2	15103.2	12979.0	10474.0	9042.0	8535.8	8544.5	8669.9	8760.8	8782.4
25°	15834.3	16150.1	14977.7	11940.6	9158.8	8189.7	8064.3	8202.7	8449.3	8626.7	8674.3
27.5°	16401.1	16539.5	14705.2	10655.7	8029.6	7579.7	7601.3	7886.9	8258.9	8505.5	8566.1
30°	17041.4	16885.6	14181.7	9210.7	7246.6	7056.2	7237.9	7571.1	7943.1	8163.8	8215.7
32.5°	17763.9	17184.1	13351.0	7873.9	6692.8	6636.6	6935.1	7151.4	7315.8	7380.7	7415.3
35°	18663.7	17603.8	12286.7	6935.1	6195.3	6329.4	6614.9	6506.8	6441.9	6407.3	6441.9
37.5°	19831.8	18170.5	11040.8	6325.1	5792.9	6108.8	6225.6	5888.1	5632.9	5507.4	5537.7
40°	21237.9	19001.2	9842.4	5853.5	5537.7	5918.4	5715.1	5308.4	4983.9	4806.5	4819.5
42.5°	22799.7	19870.8	8834.3	5498.8	5394.9	5762.7	5338.7	4854.1	4330.6	4274.4	4330.6
45°	24439.4	20766.3	8146.5	5226.2	5325.7	5628.5	5122.4	4339.3	3967.2	4196.5	4317.7
47.5°	26079.1	21588.3	7731.1	5022.9	5291.1	5477.1	4932.0	4053.8	3789.9	4123.0	4278.7
50°	27904.8	22323.8	7545.1	4875.8	5252.2	5416.6	4646.5	3980.2	3603.8	3824.5	3988.9
52.5°	29717.5	22894.9	7406.7	4728.7	5195.9	5369.0	4508.0	3893.7	3378.9	3391.8	3482.7
55°	31525.9	23266.9	7255.2	4534.0	5070.4	5265.1	4495.0	3798.5	3210.1	3149.6	3192.8
57.5°	33455.4	23478.9	7069.2	4317.7	4854.1	5001.2	4482.1	3725.0	3158.2	3058.7	3071.7
60°	35419.6	23790.4	6826.9	4053.8	4564.3	4685.4	4451.8	3699.0	3127.9	2959.2	2972.2
62.5°	37180.4	23898.6	6537.1	3802.8	4192.2	4373.9	4386.9	3677.4	3045.7	2755.9	2755.9
65°	38335.5	23431.3	6030.9	3517.3	3789.9	4053.8	4261.4	3603.8	2898.6	2608.8	2608.8
67.5°	38287.9	22098.8	5239.2	3149.6	3400.5	3699.0	4079.7	3478.4	2721.3	2427.1	2440.0
70°	36505.5	19468.4	4235.5	2721.3	2972.2	3318.3	3846.1	3292.3	2509.3	2228.1	2254.0
72.5°	31309.6	15237.3	3076.0	2219.4	2474.7	2924.6	3543.3	3067.4	2292.9	2050.7	2037.7
75°	22367.1	9643.4	2085.3	1704.6	1925.2	2479.0	3166.9	2803.5	2093.9	2059.3	1942.5
77.5°	11425.8	4607.5	1380.1	1246.0	1341.2	1955.5	2660.7	2504.9	2124.2	1700.2	1514.2
80°	3716.3	1700.2	869.6	848.0	891.2	1302.2	2059.3	2055.0	1609.4	1155.1	1021.0
82.5°	1185.4	731.1	566.7	545.1	523.5	817.7	1436.3	1626.7	1085.9	731.1	726.8
85°	471.6	437.0	333.1	307.2	220.6	385.0	752.8	1081.6	809.0	527.8	540.8
87.5°	173.1	173.1	90.9	64.9	47.6	129.8	203.3	324.5	462.9	272.6	268.2
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)