

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: P954844

Luminaire Tested: **GALN-SB8A-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954844
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-SB8A-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30761 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 227.1
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

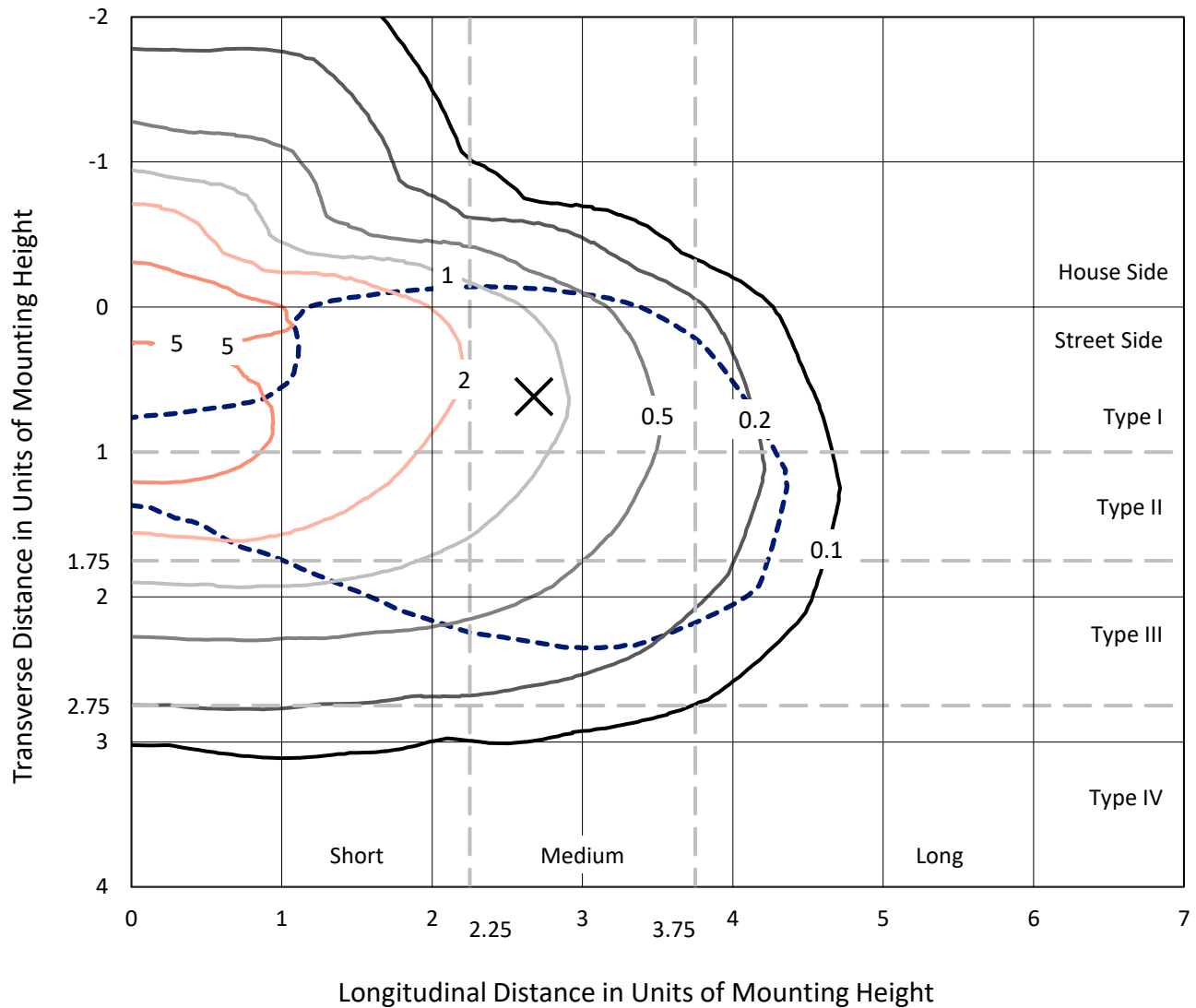


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

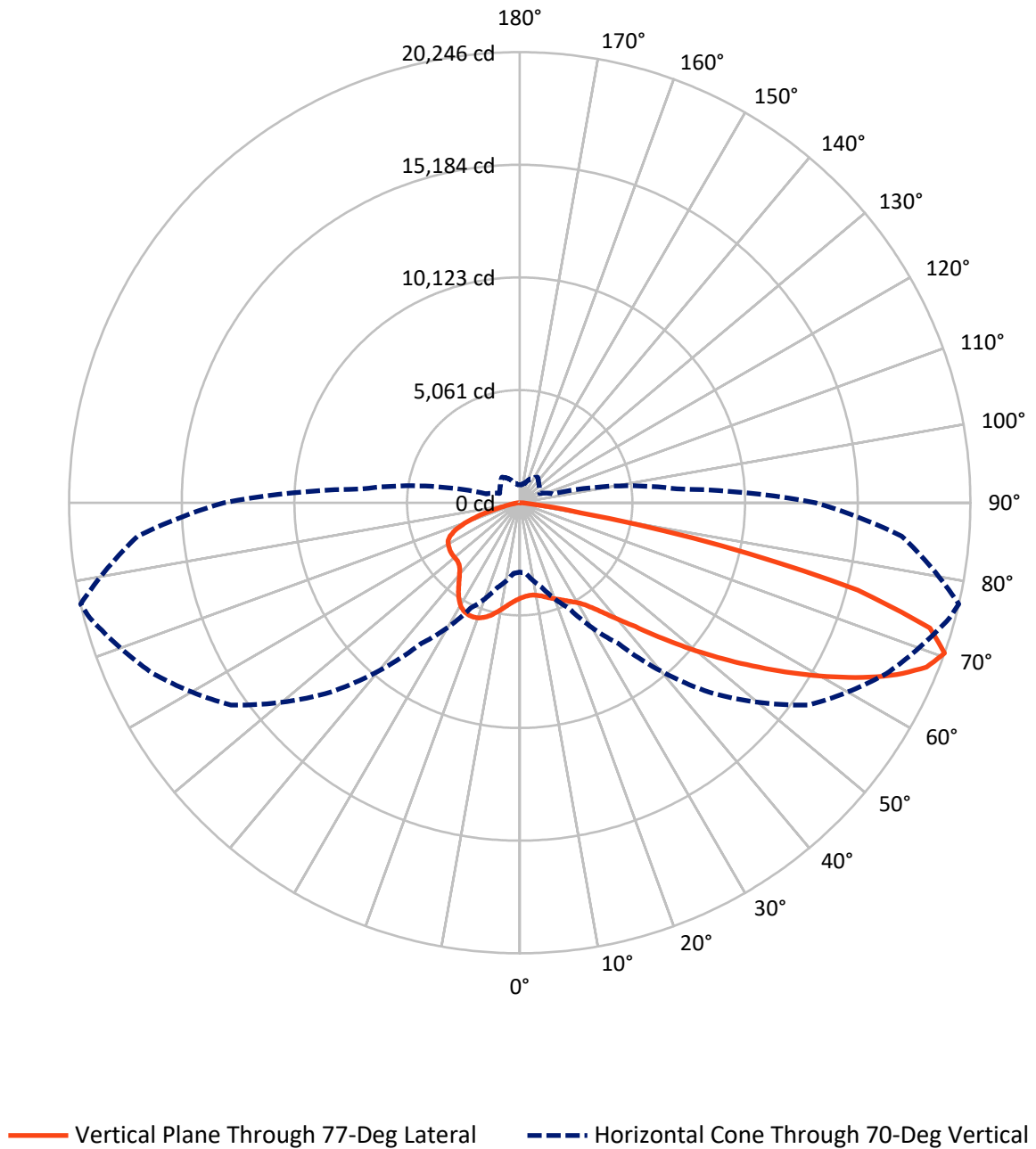


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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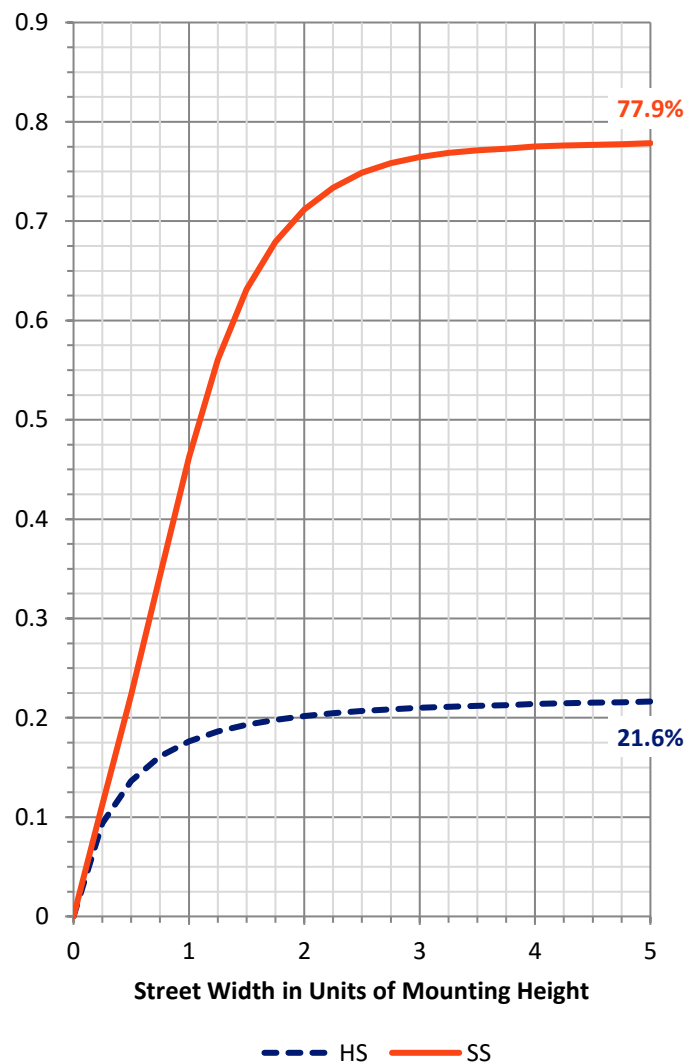
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6736.2	0.0	6736.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	24024.8	0.0	24024.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	30761.0	0.0	30761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.3	1.3
10°-20°	1181.2	3.8
20°-30°	2020.1	6.6
30°-40°	3248.5	10.6
40°-50°	5071.8	16.5
50°-60°	6774.7	22.0
60°-70°	7220.8	23.5
70°-80°	4445.1	14.5
80°-90°	389.5	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°	30761.0	100.0
0°-180°	30761.0	100.0

Coefficient of Utilization



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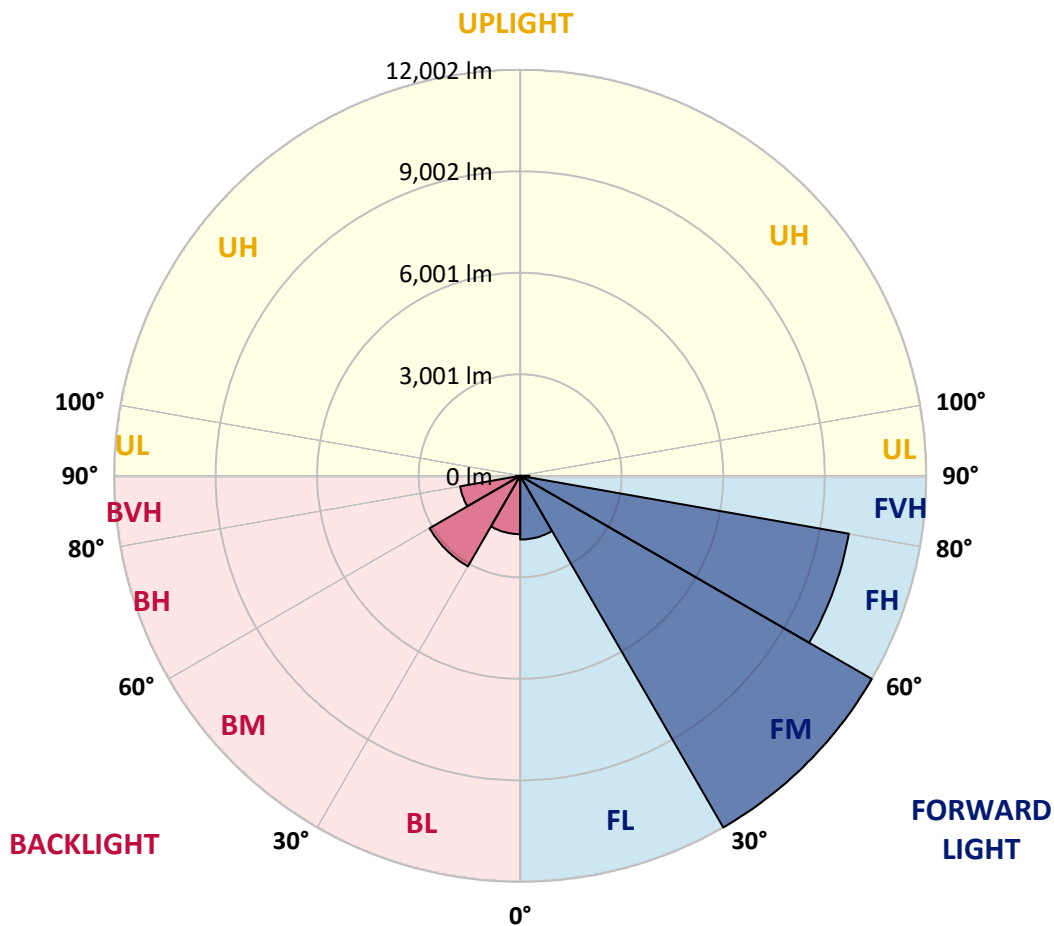
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1884.6	6.1			
FM	(30°-60°)	12002.3	39.0			
FH	(60°-80°)	9865.6	32.1			G4/12000
FVH	(80°-90°)	272.4	0.9			G3/500
BL	(0°-30°)	1726.0	5.6	B3/2500		
BM	(30°-60°)	3092.7	10.1	B3/5000		
BH	(60°-80°)	1800.3	5.9	B3/2500		G3/2500
BVH	(80°-90°)	117.1	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°	4291.4	4291.4	4291.4	4291.4	4291.4	4291.4	4291.4	4291.4	4291.4	4291.4	4291.4
2.5°	3955.9	3954.3	3974.8	3981.1	4018.9	4045.7	4096.1	4149.7	4219.0	4226.8	4269.4
5°	3727.4	3727.4	3751.1	3776.3	3825.1	3878.7	3955.9	4048.8	4168.6	4187.5	4293.0
7.5°	3533.7	3546.3	3566.7	3615.6	3672.3	3749.5	3867.7	4000.0	4157.5	4187.5	4357.6
10°	3377.7	3391.9	3417.1	3456.5	3541.5	3648.7	3803.1	3973.2	4184.3	4231.6	4452.1
12.5°	3328.9	3343.0	3357.2	3387.1	3465.9	3592.0	3776.3	3985.8	4248.9	4296.2	4581.3
15°	3442.3	3459.6	3448.6	3440.7	3481.7	3596.7	3788.9	4031.5	4329.3	4397.0	4740.4
17.5°	3703.8	3710.1	3684.9	3610.9	3604.6	3666.0	3848.7	4094.5	4430.1	4504.1	4901.1
20°	4126.0	4115.0	4063.0	3916.5	3833.0	3820.4	3951.1	4189.0	4534.1	4612.8	5074.4
22.5°	4699.5	4686.9	4582.9	4351.3	4165.4	4042.5	4099.2	4311.9	4650.6	4738.9	5243.0
25°	5414.7	5397.4	5244.6	4929.5	4641.2	4337.1	4300.9	4474.2	4794.0	4875.9	5419.4
27.5°	6249.7	6235.5	6070.1	5654.2	5238.3	4740.4	4551.4	4664.8	4943.7	5036.6	5617.9
30°	7147.7	7188.6	6895.6	6448.2	5922.0	5266.6	4888.5	4899.6	5137.4	5220.9	5859.0
32.5°	8203.2	8274.1	7921.2	7354.1	6635.7	5838.5	5313.9	5227.2	5419.4	5488.8	6163.0
35°	9249.3	9329.6	9036.6	8409.6	7582.5	6512.8	5758.2	5603.8	5794.4	5870.0	6566.3
37.5°	10153.6	10260.7	10109.5	9564.4	8595.5	7325.7	6337.9	6046.5	6256.0	6350.5	7108.3
40°	10867.2	11031.1	11020.1	10679.8	9789.7	8311.9	7073.6	6593.1	6829.4	6931.8	7765.2
42.5°	11447.0	11588.8	11711.7	11694.3	11035.8	9432.0	7938.5	7303.6	7483.2	7601.4	8504.1
45°	11847.1	11998.4	12263.1	12548.2	12234.7	10630.9	8929.5	8146.5	8310.3	8488.4	9384.8
47.5°	12204.8	12376.5	12719.9	13172.1	13252.4	11834.5	10014.9	9128.0	9277.6	9462.0	10268.6
50°	12236.3	12384.4	12916.9	13558.1	13975.5	12990.9	11180.7	10229.2	10369.4	10566.3	11215.4
52.5°	11475.3	11708.5	12638.0	13547.0	14308.0	13958.2	12338.7	11374.5	11532.1	11768.4	12195.3
55°	8907.4	9249.3	11820.4	13124.8	14189.8	14583.6	13439.9	12592.3	12794.0	13041.3	13181.5
57.5°	7672.3	7822.0	9383.2	12356.0	13651.0	14745.9	14369.4	13822.7	14147.3	14418.2	14224.5
60°	6895.6	7020.1	7943.3	11160.3	12942.1	14489.1	15087.8	14969.6	15530.5	15853.4	15291.0
62.5°	6063.8	6181.9	7021.6	9318.6	12034.6	14062.2	15541.5	16028.3	16948.4	17301.2	16296.1
65°	5238.3	5339.1	6144.1	7829.8	10881.4	13635.2	15776.2	16943.6	18260.7	18626.2	17131.1
67.5°	4318.2	4401.7	5162.6	6605.7	9479.3	13050.8	15892.8	17663.6	19402.9	19716.4	17543.9
70°	3116.2	3180.8	3966.9	5224.1	7719.6	12045.7	15845.6	18174.0	19995.2	20245.7	17231.9
72.5°	1473.0	1531.3	2454.5	3391.9	5452.5	10089.0	14889.3	17769.1	19393.4	19268.9	15322.5
75°	786.1	836.5	1410.0	1860.6	2879.9	6916.1	12184.3	15306.8	16285.1	15680.1	11324.1
77.5°	532.5	571.9	872.8	1117.0	1315.5	3283.2	7831.4	10597.8	10196.1	9197.3	5671.5
80°	422.2	463.2	715.2	756.2	636.5	1186.3	3235.9	4905.9	3524.2	2818.4	1613.2
82.5°	324.5	370.2	601.8	548.2	346.6	486.8	942.1	1551.8	902.7	686.9	390.7
85°	198.5	247.3	472.6	349.7	195.4	222.1	319.8	431.7	275.7	230.0	140.2
87.5°	100.8	141.8	239.5	127.6	88.2	52.0	85.1	85.1	72.5	63.0	36.2
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°	4291.4	4291.4	4291.4	4291.4	4291.4	4291.4	4291.4	4291.4	4291.4	4291.4	4291.4
2.5°	4307.2	4338.7	4392.3	4442.7	4482.1	4519.9	4557.7	4578.2	4584.5	4609.7	4623.9
5°	4357.6	4415.9	4519.9	4617.6	4679.0	4716.8	4743.6	4759.3	4762.5	4770.4	4783.0
7.5°	4450.6	4543.5	4688.4	4786.1	4831.8	4828.7	4817.6	4778.2	4762.5	4748.3	4751.5
10°	4581.3	4704.2	4882.2	4950.0	4921.6	4846.0	4748.3	4633.3	4579.7	4527.8	4512.0
12.5°	4743.6	4899.6	5074.4	5071.3	4931.1	4737.3	4510.4	4334.0	4222.1	4141.8	4122.9
15°	4940.5	5120.1	5254.0	5146.9	4839.7	4491.5	4159.1	3929.1	3828.3	3740.0	3730.6
17.5°	5143.7	5335.9	5397.4	5123.3	4609.7	4127.6	3751.1	3569.9	3470.6	3423.4	3437.6
20°	5342.2	5532.9	5482.5	4987.8	4259.9	3714.8	3379.3	3280.0	3259.5	3270.6	3265.8
22.5°	5551.8	5721.9	5499.8	4726.3	3814.1	3292.6	3108.3	3111.5	3157.1	3190.2	3198.1
25°	5766.0	5881.0	5454.1	4348.2	3335.2	2982.3	2936.6	2987.0	3076.8	3141.4	3158.7
27.5°	5972.4	6022.8	5354.8	3880.3	2924.0	2760.1	2768.0	2872.0	3007.5	3097.3	3119.3
30°	6205.6	6148.9	5164.2	3354.1	2638.8	2569.5	2635.7	2757.0	2892.5	2972.8	2991.7
32.5°	6468.7	6257.6	4861.7	2867.3	2437.2	2416.7	2525.4	2604.2	2664.0	2687.7	2700.3
35°	6796.4	6410.4	4474.2	2525.4	2256.0	2304.8	2408.8	2369.4	2345.8	2333.2	2345.8
37.5°	7221.7	6616.8	4020.5	2303.3	2109.5	2224.5	2267.0	2144.1	2051.2	2005.5	2016.5
40°	7733.7	6919.2	3584.1	2131.5	2016.5	2155.2	2081.1	1933.0	1814.9	1750.3	1755.0
42.5°	8302.5	7235.9	3217.0	2002.4	1964.5	2098.5	1944.1	1767.6	1577.0	1556.5	1577.0
45°	8899.5	7562.0	2966.5	1903.1	1939.3	2049.6	1865.3	1580.1	1444.7	1528.2	1572.3
47.5°	9496.6	7861.3	2815.3	1829.1	1926.7	1994.5	1796.0	1476.2	1380.1	1501.4	1558.1
50°	10161.4	8129.2	2747.5	1775.5	1912.6	1972.4	1692.0	1449.4	1312.3	1392.7	1452.5
52.5°	10821.5	8337.1	2697.1	1721.9	1892.1	1955.1	1641.6	1417.9	1230.4	1235.1	1268.2
55°	11480.1	8472.6	2642.0	1651.0	1846.4	1917.3	1636.9	1383.2	1169.0	1146.9	1162.7
57.5°	12182.7	8549.8	2574.2	1572.3	1767.6	1821.2	1632.1	1356.4	1150.1	1113.8	1118.5
60°	12898.0	8663.2	2486.0	1476.2	1662.1	1706.2	1621.1	1347.0	1139.0	1077.6	1082.3
62.5°	13539.1	8702.6	2380.5	1384.8	1526.6	1592.7	1597.5	1339.1	1109.1	1003.5	1003.5
65°	13959.8	8532.5	2196.1	1280.8	1380.1	1476.2	1551.8	1312.3	1055.5	950.0	950.0
67.5°	13942.5	8047.2	1907.8	1146.9	1238.3	1347.0	1485.6	1266.6	990.9	883.8	888.5
70°	13293.4	7089.4	1542.3	990.9	1082.3	1208.3	1400.5	1198.9	913.7	811.3	820.8
72.5°	11401.3	5548.6	1120.1	808.2	901.1	1065.0	1290.3	1117.0	835.0	746.7	742.0
75°	8144.9	3511.6	759.4	620.7	701.1	902.7	1153.2	1020.9	762.5	749.9	707.4
77.5°	4160.7	1677.8	502.6	453.7	488.4	712.1	968.9	912.2	773.5	619.1	551.4
80°	1353.3	619.1	316.7	308.8	324.5	474.2	749.9	748.3	586.1	420.6	371.8
82.5°	431.7	266.2	206.4	198.5	190.6	297.8	523.0	592.4	395.4	266.2	264.7
85°	171.7	159.1	121.3	111.9	80.3	140.2	274.1	393.9	294.6	192.2	196.9
87.5°	63.0	63.0	33.1	23.6	17.3	47.3	74.0	118.2	168.6	99.3	97.7
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)