

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: P951316

Luminaire Tested: **GALN-SB5C-730-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951316
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-SB5C-730-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38837 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 249.5
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

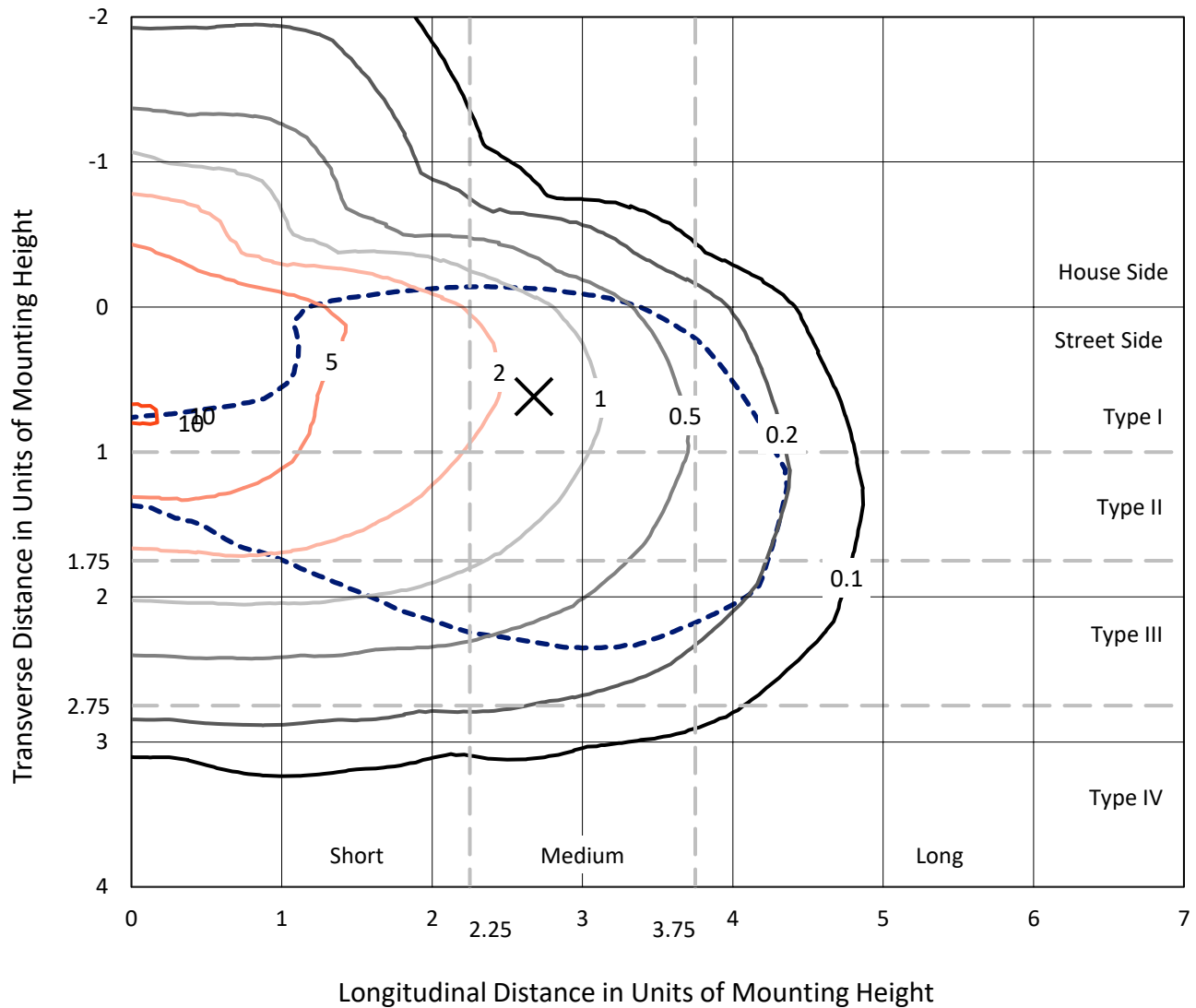


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

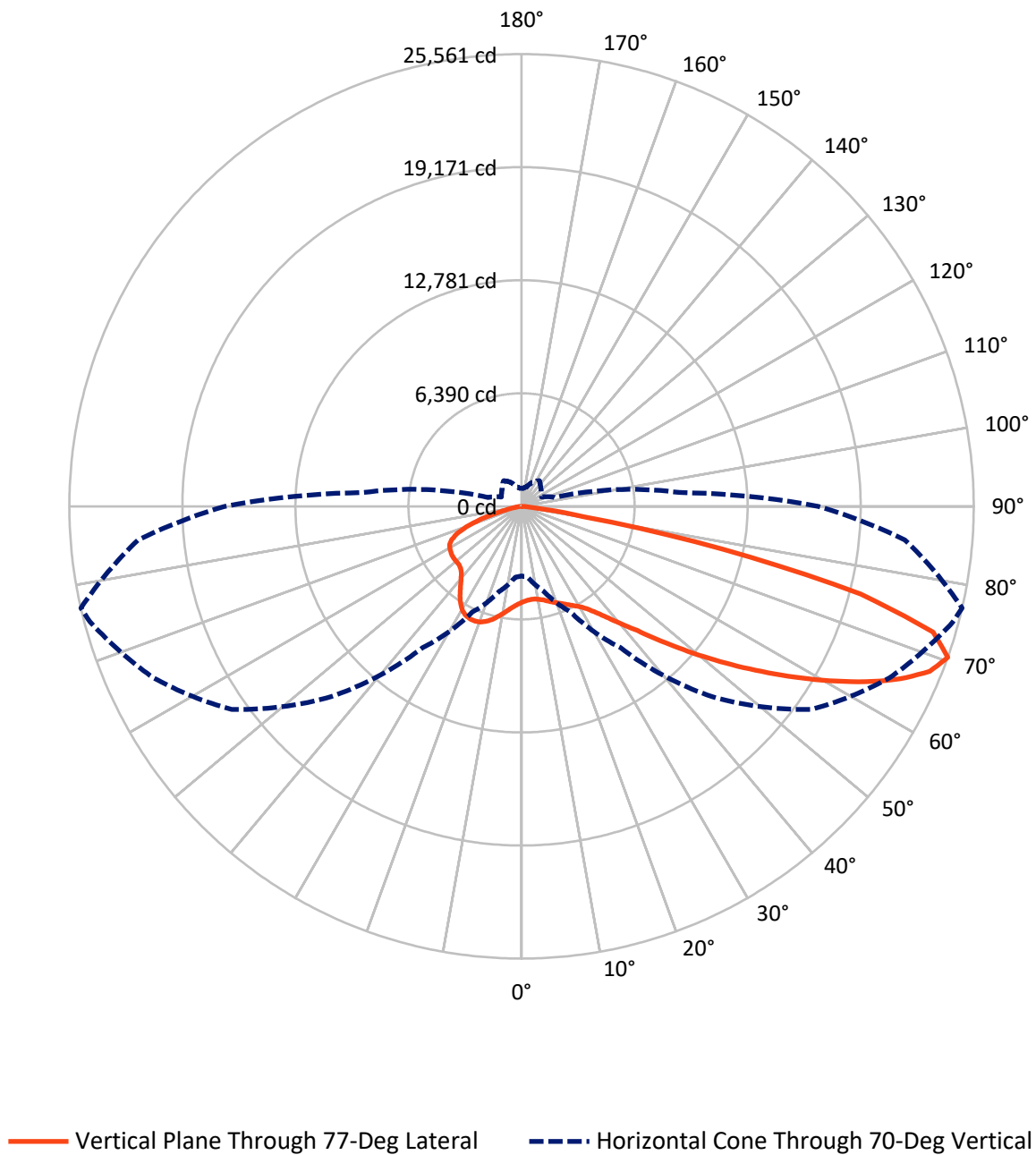


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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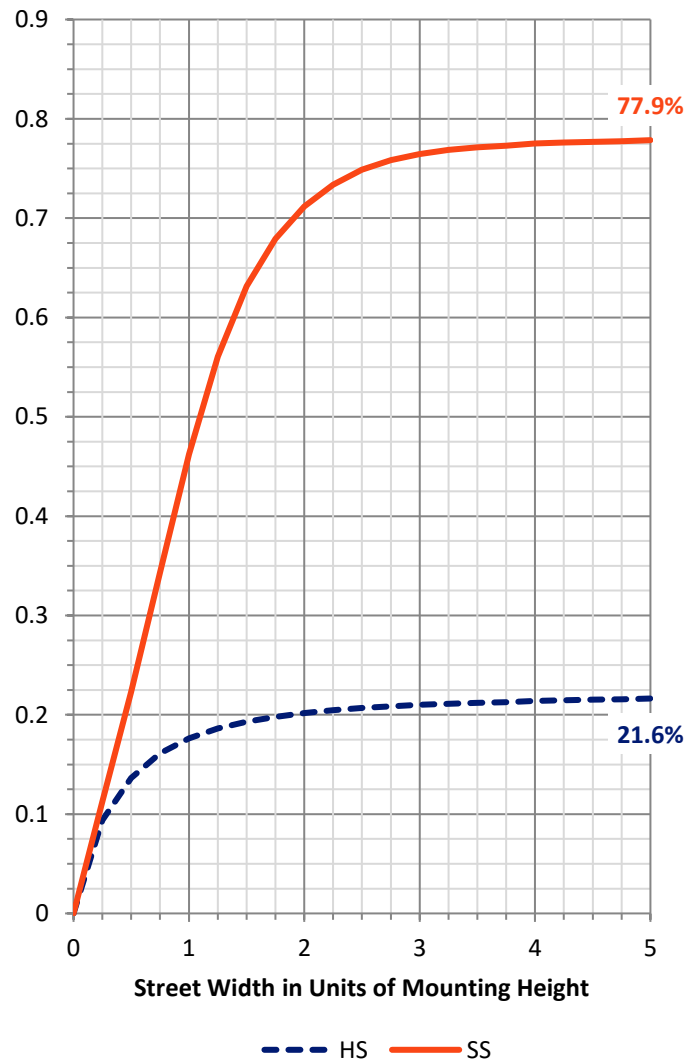
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8504.7	0.0	8504.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	30332.3	0.0	30332.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	38837.0	0.0	38837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.7	1.3
10°-20°	1491.4	3.8
20°-30°	2550.5	6.6
30°-40°	4101.4	10.6
40°-50°	6403.3	16.5
50°-60°	8553.3	22.0
60°-70°	9116.5	23.5
70°-80°	5612.1	14.5
80°-90°	491.8	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°	38837.0	100.0
0°-180°	38837.0	100.0

Coefficient of Utilization



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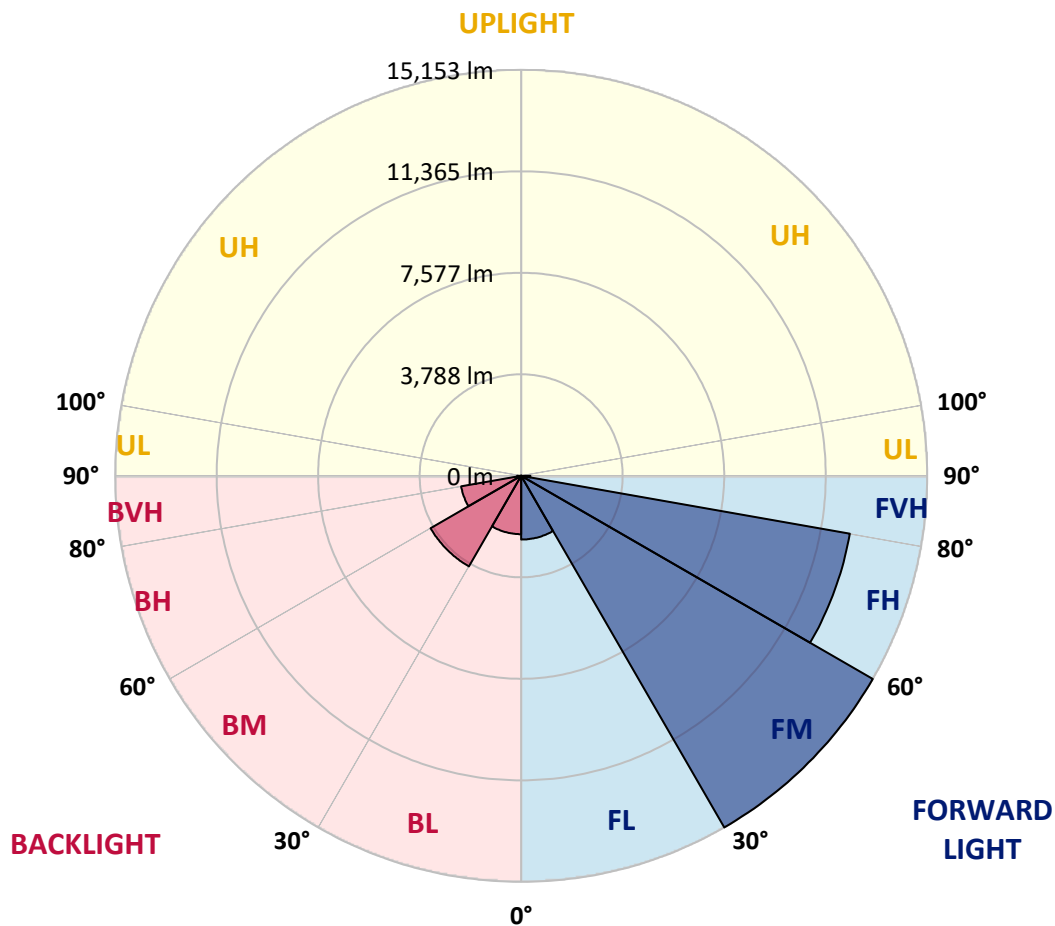
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2379.4	6.1			
FM	(30°-60°)	15153.4	39.0			
FH	(60°-80°)	12455.7	32.1			G5
FVH	(80°-90°)	343.9	0.9			G3/500
BL	(0°-30°)	2179.2	5.6	B3/2500		
BM	(30°-60°)	3904.7	10.1	B3/5000		
BH	(60°-80°)	2272.9	5.9	B3/2500		G3/2500
BVH	(80°-90°)	147.9	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-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5418.1	5418.1	5418.1	5418.1	5418.1	5418.1	5418.1	5418.1	5418.1	5418.1	5418.1
2.5°	4994.5	4992.5	5018.3	5026.3	5074.0	5107.8	5171.5	5239.1	5326.6	5336.6	5390.3
5°	4706.0	4706.0	4735.9	4767.7	4829.4	4897.0	4994.5	5111.8	5263.0	5286.8	5420.1
7.5°	4461.4	4477.3	4503.2	4564.8	4636.4	4733.9	4883.1	5050.1	5249.0	5286.8	5501.7
10°	4264.5	4282.4	4314.2	4363.9	4471.3	4606.6	4801.5	5016.3	5282.9	5342.5	5621.0
12.5°	4202.8	4220.7	4238.6	4276.4	4375.9	4535.0	4767.7	5032.2	5364.4	5424.1	5784.1
15°	4346.0	4367.9	4354.0	4344.0	4395.8	4541.0	4783.6	5089.9	5465.9	5551.4	5985.0
17.5°	4676.2	4684.2	4652.3	4558.9	4550.9	4628.5	4859.2	5169.5	5593.2	5686.6	6187.9
20°	5209.3	5195.3	5129.7	4944.7	4839.3	4823.4	4988.5	5288.8	5724.4	5823.9	6406.7
22.5°	5933.3	5917.4	5786.1	5493.7	5259.0	5103.8	5175.5	5444.0	5871.6	5983.0	6619.5
25°	6836.3	6814.4	6621.5	6223.7	5859.7	5475.8	5430.0	5648.8	6052.6	6156.0	6842.3
27.5°	7890.5	7872.6	7663.7	7138.6	6613.5	5985.0	5746.3	5889.5	6241.6	6358.9	7092.9
30°	9024.2	9075.9	8706.0	8141.1	7476.8	6649.3	6172.0	6185.9	6486.2	6591.6	7397.2
32.5°	10356.9	10446.4	10000.8	9284.8	8377.8	7371.3	6709.0	6599.6	6842.3	6929.8	7781.1
35°	11677.6	11779.0	11409.1	10617.4	9573.2	8222.6	7269.9	7075.0	7315.6	7411.1	8290.3
37.5°	12819.3	12954.5	12763.6	12075.4	10852.1	9249.0	8001.9	7633.9	7898.4	8017.8	8974.5
40°	13720.3	13927.2	13913.3	13483.6	12359.8	10494.1	8930.7	8324.1	8622.4	8751.7	9803.9
42.5°	14452.3	14631.3	14786.4	14764.6	13933.2	11908.3	10022.7	9221.1	9447.9	9597.1	10736.8
45°	14957.5	15148.4	15482.6	15842.6	15446.8	13422.0	11273.8	10285.3	10492.1	10716.9	11848.6
47.5°	15409.0	15625.8	16059.4	16630.3	16731.7	14941.6	12644.3	11524.4	11713.4	11946.1	12964.5
50°	15448.8	15635.8	16308.1	17117.6	17644.7	16401.5	14116.1	12914.8	13091.8	13340.4	14159.9
52.5°	14488.1	14782.5	15956.0	17103.7	18064.4	17622.8	15578.1	14360.8	14559.7	14858.0	15397.1
55°	11246.0	11677.6	14923.7	16570.6	17915.2	18412.4	16968.4	15898.3	16152.9	16465.2	16642.2
57.5°	9686.6	9875.5	11846.7	15600.0	17234.9	18617.3	18141.9	17451.7	17861.5	18203.6	17958.9
60°	8706.0	8863.1	10028.7	14090.3	16339.9	18293.1	19048.9	18899.8	19607.9	20015.6	19305.5
62.5°	7655.8	7805.0	8865.1	11765.1	15194.2	17754.1	19621.8	20236.4	21398.0	21843.5	20574.5
65°	6613.5	6740.8	7757.2	9885.5	13738.2	17215.0	19918.1	21392.0	23054.8	23516.3	21628.7
67.5°	5451.9	5557.3	6518.0	8340.0	11968.0	16477.1	20065.3	22301.0	24496.9	24892.7	22149.8
70°	3934.3	4015.9	5008.4	6595.6	9746.2	15208.1	20005.7	22945.4	25244.8	25561.0	21756.0
72.5°	1859.7	1933.3	3098.9	4282.4	6884.0	12737.7	18798.3	22434.3	24485.0	24327.8	19345.3
75°	992.5	1056.2	1780.2	2349.0	3635.9	8731.8	15383.2	19325.4	20560.6	19796.8	14297.1
77.5°	672.3	722.0	1101.9	1410.2	1660.8	4145.1	9887.5	13380.2	12873.0	11612.0	7160.5
80°	533.1	584.8	903.0	954.7	803.6	1497.7	4085.5	6193.8	4449.5	3558.4	2036.8
82.5°	409.7	467.4	759.8	692.2	437.6	614.6	1189.4	1959.2	1139.7	867.2	493.3
85°	250.6	312.3	596.7	441.6	246.6	280.5	403.8	545.0	348.1	290.4	177.0
87.5°	127.3	179.0	302.3	161.1	111.4	65.6	107.4	107.4	91.5	79.6	45.7
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°	5418.1	5418.1	5418.1	5418.1	5418.1	5418.1	5418.1	5418.1	5418.1	5418.1	5418.1
2.5°	5438.0	5477.8	5545.4	5609.1	5658.8	5706.5	5754.3	5780.1	5788.1	5819.9	5837.8
5°	5501.7	5575.2	5706.5	5829.8	5907.4	5955.2	5989.0	6008.9	6012.8	6022.8	6038.7
7.5°	5619.0	5736.4	5919.4	6042.7	6100.4	6096.4	6082.5	6032.7	6012.8	5994.9	5998.9
10°	5784.1	5939.2	6164.0	6249.5	6213.7	6118.3	5994.9	5849.7	5782.1	5716.5	5696.6
12.5°	5989.0	6185.9	6406.7	6402.7	6225.7	5981.0	5694.6	5471.8	5330.6	5229.2	5205.3
15°	6237.6	6464.3	6633.4	6498.2	6110.3	5670.7	5251.0	4960.6	4833.3	4722.0	4710.0
17.5°	6494.2	6736.8	6814.4	6468.3	5819.9	5211.3	4735.9	4507.1	4381.8	4322.2	4340.1
20°	6744.8	6985.5	6921.8	6297.3	5378.3	4690.1	4266.5	4141.2	4115.3	4129.2	4123.3
22.5°	7009.3	7224.2	6943.7	5967.1	4815.4	4157.1	3924.4	3928.3	3986.0	4027.8	4037.7
25°	7279.8	7425.0	6886.0	5489.7	4210.8	3765.2	3707.6	3771.2	3884.6	3966.1	3988.0
27.5°	7540.4	7604.1	6760.7	4899.0	3691.6	3484.8	3494.7	3626.0	3797.1	3910.4	3938.3
30°	7834.8	7763.2	6520.0	4234.6	3331.6	3244.1	3327.6	3480.8	3651.9	3753.3	3777.2
32.5°	8167.0	7900.4	6138.1	3620.0	3077.0	3051.2	3188.4	3287.9	3363.4	3393.3	3409.2
35°	8580.7	8093.4	5648.8	3188.4	2848.3	2909.9	3041.2	2991.5	2961.7	2945.8	2961.7
37.5°	9117.7	8353.9	5076.0	2908.0	2663.3	2808.5	2862.2	2707.1	2589.7	2532.0	2546.0
40°	9764.1	8735.8	4525.0	2691.2	2546.0	2721.0	2627.5	2440.5	2291.4	2209.8	2215.8
42.5°	10482.2	9135.6	4061.6	2528.1	2480.3	2649.4	2454.5	2231.7	1991.0	1965.2	1991.0
45°	11236.0	9547.3	3745.3	2402.7	2448.5	2587.7	2355.0	1995.0	1823.9	1929.4	1985.1
47.5°	11989.9	9925.3	3554.4	2309.3	2432.6	2518.1	2267.5	1863.7	1742.4	1895.5	1967.1
50°	12829.2	10263.4	3468.9	2241.6	2414.7	2490.3	2136.2	1829.9	1656.9	1758.3	1833.9
52.5°	13662.6	10525.9	3405.2	2174.0	2388.8	2468.4	2072.6	1790.1	1553.4	1559.4	1601.2
55°	14494.1	10697.0	3335.6	2084.5	2331.1	2420.6	2066.6	1746.4	1475.9	1448.0	1467.9
57.5°	15381.2	10794.5	3250.1	1985.1	2231.7	2299.3	2060.6	1712.6	1452.0	1406.2	1412.2
60°	16284.2	10937.7	3138.7	1863.7	2098.4	2154.1	2046.7	1700.6	1438.1	1360.5	1366.5
62.5°	17093.7	10987.4	3005.4	1748.4	1927.4	2010.9	2016.9	1690.7	1400.3	1267.0	1267.0
65°	17624.8	10772.6	2772.7	1617.1	1742.4	1863.7	1959.2	1656.9	1332.6	1199.4	1199.4
67.5°	17602.9	10160.0	2408.7	1448.0	1563.4	1700.6	1875.7	1599.2	1251.1	1115.8	1121.8
70°	16783.4	8950.6	1947.3	1251.1	1366.5	1525.6	1768.2	1513.7	1153.6	1024.4	1036.3
72.5°	14394.6	7005.4	1414.2	1020.4	1137.7	1344.6	1629.0	1410.2	1054.2	942.8	936.8
75°	10283.3	4433.5	958.7	783.7	885.1	1139.7	1456.0	1288.9	962.7	946.8	893.1
77.5°	5253.0	2118.3	634.5	572.8	616.6	899.0	1223.3	1151.6	976.6	781.7	696.2
80°	1708.6	781.7	399.8	389.8	409.7	598.7	946.8	944.8	739.9	531.1	469.4
82.5°	545.0	336.1	260.6	250.6	240.7	375.9	660.4	747.9	499.2	336.1	334.2
85°	216.8	200.9	153.2	141.2	101.4	177.0	346.1	497.3	371.9	242.7	248.6
87.5°	79.6	79.6	41.8	29.8	21.9	59.7	93.5	149.2	212.8	125.3	123.3
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)