

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: P457669

Luminaire Tested: **GALN-SA9A-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37673 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

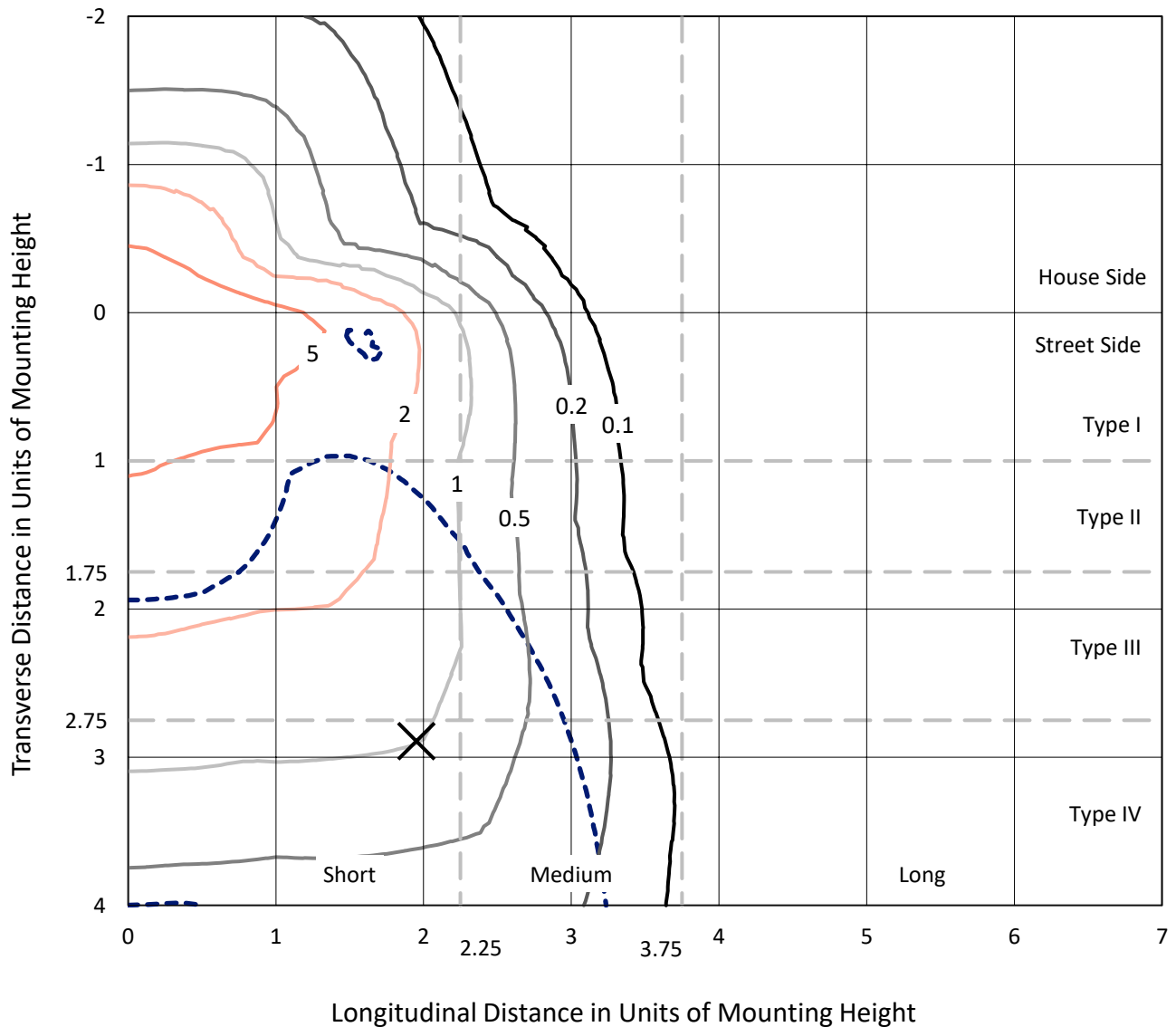
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

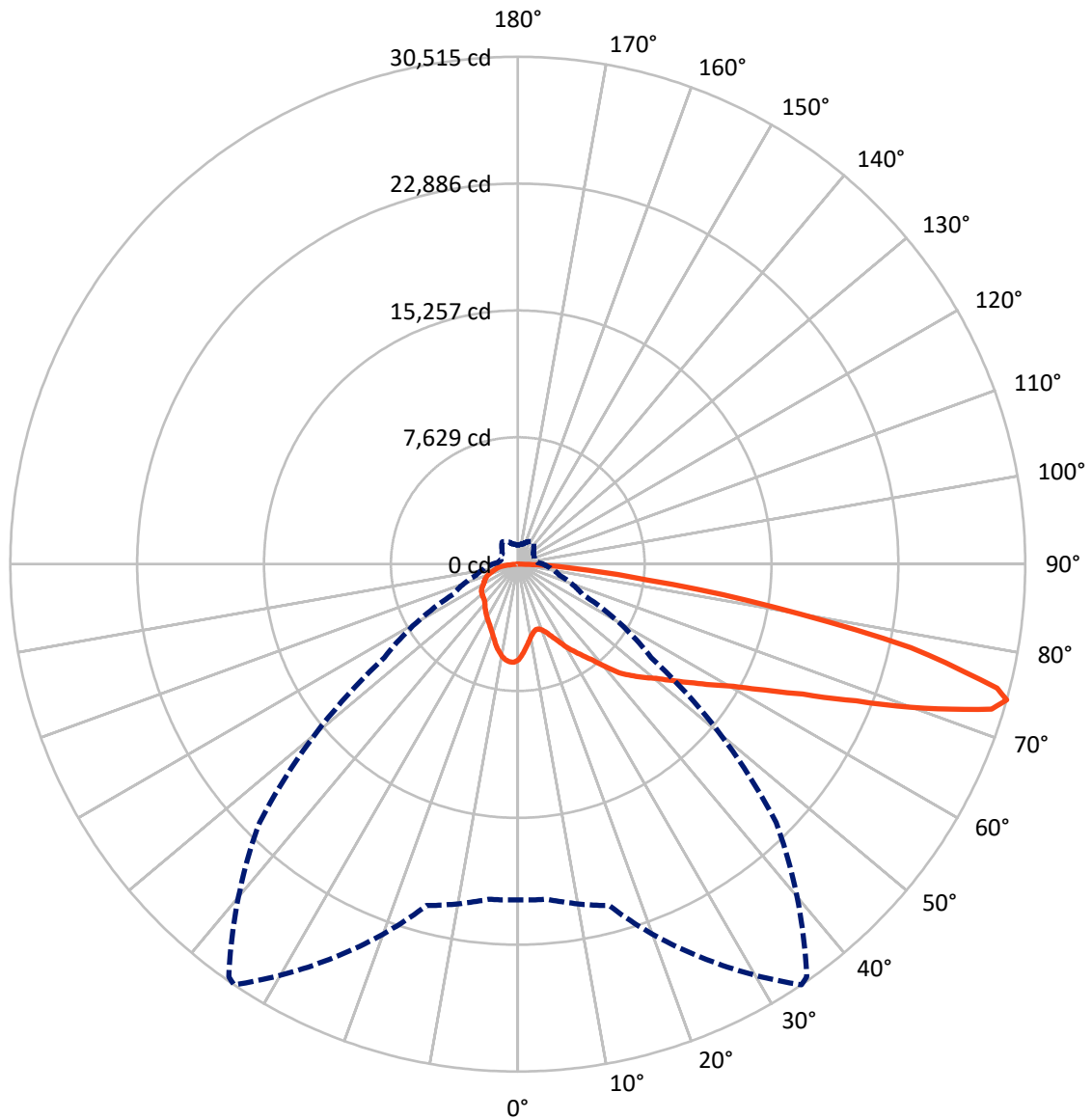
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical



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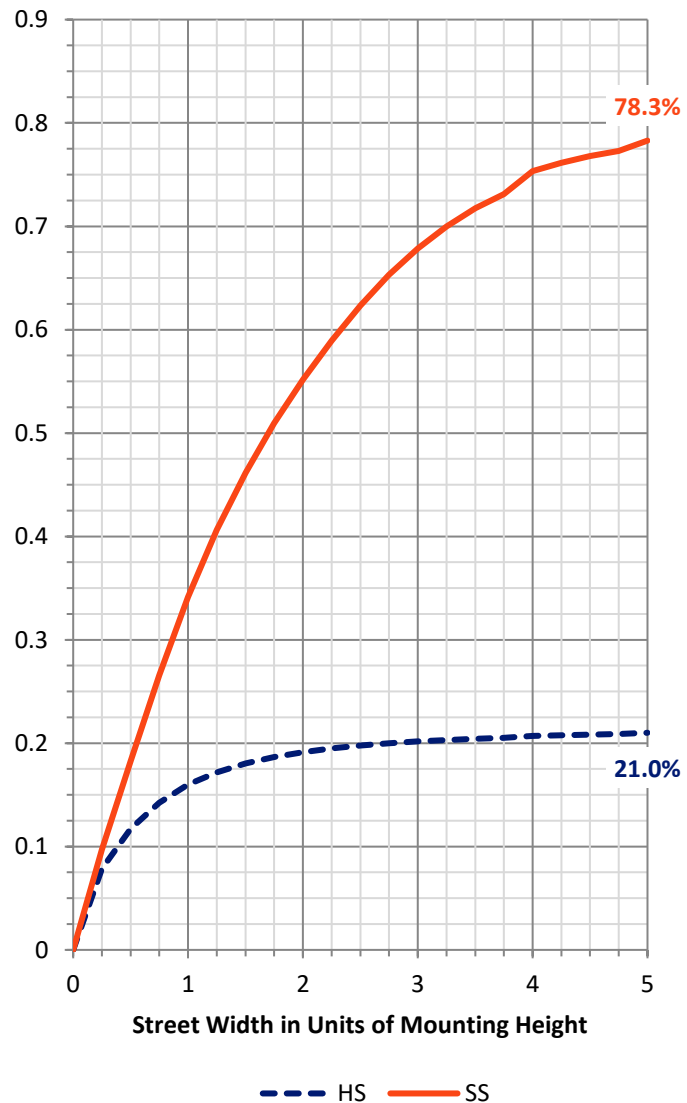
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8017.1	0.0	8017.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	29655.9	0.0	29655.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	37673.0	0.0	37673.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.1	1.4
10°-20°	1432.0	3.8
20°-30°	2361.0	6.3
30°-40°	3536.5	9.4
40°-50°	5141.1	13.6
50°-60°	7180.9	19.1
60°-70°	8990.1	23.9
70°-80°	7434.1	19.7
80°-90°	1074.2	2.9
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°	37673.0	100.0
0°-180°	37673.0	100.0



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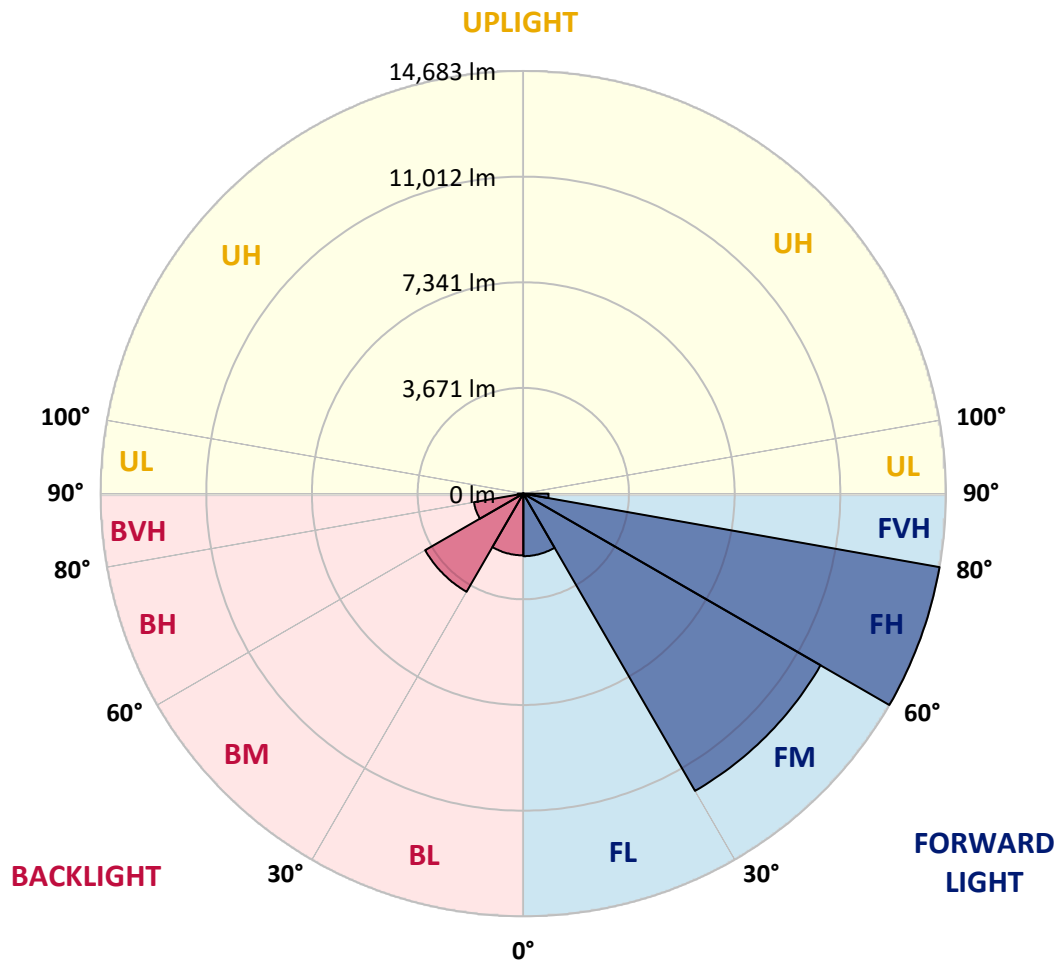
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2171.7	5.8			
FM (30°-60°)	11921.3	31.6			
FH (60°-80°)	14682.9	39.0			G5
FVH (80°-90°)	880.0	2.3			G5
BL (0°-30°)	2144.4	5.7	B3/2500		
BM (30°-60°)	3937.2	10.5	B3/5000		
BH (60°-80°)	1741.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	194.2	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9
2.5°	5315.7	5342.9	5357.5	5409.6	5422.2	5438.9	5482.7	5541.1	5616.3	5683.0	5741.5
5°	4873.3	4915.0	4940.1	4986.0	5075.7	5084.1	5200.9	5334.5	5486.9	5628.8	5745.7
7.5°	4453.8	4499.7	4520.6	4604.0	4723.0	4741.8	4912.9	5123.7	5378.3	5593.3	5772.8
10°	4138.6	4161.6	4207.5	4270.1	4412.0	4424.6	4647.9	4929.6	5259.4	5576.6	5818.7
12.5°	3967.5	3980.0	3990.4	4057.2	4197.1	4215.8	4449.6	4768.9	5165.5	5589.1	5893.8
15°	3992.5	3996.7	3950.8	3963.3	4076.0	4103.1	4334.8	4662.5	5107.0	5620.4	6006.5
17.5°	4203.3	4188.7	4076.0	4017.6	4096.9	4109.4	4311.9	4620.7	5079.9	5678.9	6123.4
20°	4535.2	4514.3	4320.2	4190.8	4236.7	4247.2	4387.0	4652.0	5107.0	5774.9	6305.0
22.5°	4948.4	4940.1	4645.8	4489.3	4487.2	4487.2	4560.2	4764.7	5188.4	5906.4	6494.9
25°	5526.5	5482.7	5098.7	4896.2	4839.9	4835.7	4827.4	4950.5	5292.8	6046.2	6720.3
27.5°	6119.2	6044.1	5701.8	5390.9	5269.8	5255.2	5200.9	5213.5	5426.3	6204.8	6977.0
30°	6651.4	6603.4	6282.0	5937.7	5793.7	5760.3	5610.0	5541.1	5649.7	6490.7	7386.1
32.5°	7058.4	7029.2	6778.8	6465.7	6252.8	6246.6	6027.4	5971.1	5998.2	6837.2	7853.6
35°	7388.2	7398.6	7271.3	7000.0	6755.8	6720.3	6574.2	6503.3	6424.0	7338.1	8442.1
37.5°	7839.0	7861.9	7853.6	7619.8	7321.4	7329.7	7296.3	7179.5	6968.7	7897.4	9095.4
40°	8335.7	8352.4	8350.3	8260.6	8104.0	8112.4	8099.9	7966.3	7651.1	8609.1	9821.7
42.5°	9022.3	8943.0	8736.4	8826.2	8918.0	8957.6	9043.2	8915.9	8483.9	9368.8	10504.1
45°	9790.4	9640.1	9172.6	9214.3	9554.5	9629.7	10101.3	9926.0	9387.6	10241.2	11307.7
47.5°	10274.6	10126.4	9731.9	9723.6	10174.4	10247.4	11082.3	11017.6	10209.9	11182.4	12288.6
50°	10706.6	10685.7	10241.2	10347.6	10788.0	10896.5	12150.8	12090.3	11030.1	12292.8	13357.1
52.5°	11347.3	11178.3	10823.5	11042.6	11624.9	11766.8	13211.1	13033.7	11783.5	13273.7	14394.4
55°	11635.3	11595.7	11574.8	11764.7	12564.1	12666.3	14242.1	13835.1	12426.3	14104.3	15183.3
57.5°	12405.5	12332.4	12539.0	12668.4	13670.2	13826.7	15319.0	14672.0	12989.8	14763.8	15567.3
60°	13403.1	13363.4	13553.3	13787.1	14905.7	15143.7	16546.2	15385.8	13442.7	15095.7	15356.5
62.5°	14893.2	14889.0	14853.6	15354.5	16656.8	16875.9	17954.9	16080.8	13513.7	14847.3	14267.1
65°	17030.4	16955.2	16646.3	17193.2	18835.7	19092.4	19422.1	16468.9	13085.8	13572.1	12013.1
67.5°	19265.6	19261.4	19011.0	19720.6	21964.2	22229.2	21256.6	16383.4	11898.3	10994.6	8531.9
70°	21118.9	21029.2	21348.5	23239.4	25960.9	26267.7	22861.6	15375.3	9477.3	7260.9	5069.5
72.5°	21563.4	21567.6	22231.3	25952.5	29799.0	29847.0	23439.7	12461.8	6342.6	4005.1	2535.8
74°	20194.3	20229.8	21258.7	26088.2	30514.8	30297.8	21962.1	9794.5	4288.9	2615.1	1828.3
75°	18432.9	18209.5	19697.6	25184.5	29771.8	29538.1	20231.9	7859.8	3272.5	2089.1	1600.8
77.5°	9855.1	10082.6	12378.3	18793.9	24186.9	23917.6	13718.2	3769.2	1767.7	1454.7	1152.1
80°	3508.3	3869.4	5438.9	9834.2	15506.8	15590.3	6547.1	1728.1	1243.9	1072.7	814.0
82.5°	1431.7	1471.4	2335.4	4364.0	7874.5	7949.6	2673.5	1026.8	889.1	738.8	486.3
85°	559.3	576.0	1033.1	1961.8	3360.2	3579.3	924.6	542.6	546.8	423.7	248.4
87.5°	187.8	212.9	423.7	653.2	1141.6	1118.7	269.2	160.7	196.2	183.7	77.2
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°	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9	5751.9
2.5°	5770.7	5810.4	5837.5	5866.7	5893.8	5902.2	5895.9	5914.7	5916.8	5918.9	5921.0
5°	5804.1	5858.4	5910.5	5939.8	5952.3	5941.8	5906.4	5887.6	5870.9	5858.4	5862.5
7.5°	5850.0	5927.2	5975.2	5987.8	5954.4	5906.4	5818.7	5749.8	5706.0	5676.8	5674.7
10°	5921.0	5996.1	6035.8	6000.3	5908.5	5791.6	5653.8	5524.4	5426.3	5397.1	5395.0
12.5°	6010.7	6096.3	6094.2	5989.8	5829.1	5620.4	5397.1	5246.9	5113.3	5046.5	5073.6
15°	6127.6	6192.3	6131.8	5943.9	5689.3	5403.4	5127.9	4923.4	4773.1	4702.1	4706.3
17.5°	6263.3	6319.6	6158.9	5862.5	5493.1	5125.8	4806.5	4612.4	4493.4	4441.3	4437.1
20°	6432.3	6449.0	6158.9	5720.6	5240.6	4802.3	4497.6	4361.9	4295.2	4268.0	4276.4
22.5°	6613.9	6580.5	6125.5	5520.3	4908.8	4464.2	4259.7	4199.2	4165.8	4161.6	4165.8
25°	6818.4	6724.5	6056.6	5248.9	4562.3	4172.0	4053.1	4063.5	4069.8	4069.8	4084.4
27.5°	7068.9	6881.0	5941.8	4906.7	4157.4	3900.7	3867.3	3940.4	3973.8	3980.0	3990.4
30°	7398.6	7052.2	5751.9	4478.8	3813.0	3656.5	3715.0	3813.0	3850.6	3873.6	3869.4
32.5°	7791.0	7240.0	5495.2	4051.0	3535.5	3485.4	3556.3	3656.5	3698.3	3710.8	3694.1
35°	8252.2	7452.9	5157.1	3650.3	3293.4	3322.6	3406.1	3437.4	3474.9	3474.9	3483.3
37.5°	8748.9	7624.0	4743.9	3282.9	3105.5	3212.0	3272.5	3243.3	3226.6	3205.7	3216.2
40°	9254.0	7751.3	4207.5	2919.8	2917.7	3097.2	3113.9	3030.4	2963.6	2942.7	2932.3
42.5°	9694.4	7830.6	3723.3	2638.0	2740.3	2984.5	2997.0	2863.4	2757.0	2694.4	2673.5
45°	10214.0	7922.5	3249.5	2404.3	2575.4	2894.7	2926.1	2746.6	2590.0	2458.6	2425.2
47.5°	10925.7	8131.2	2876.0	2222.7	2456.5	2838.4	2882.2	2650.6	2443.9	2272.8	2245.7
50°	11729.2	8417.1	2585.9	2099.6	2364.6	2788.3	2842.6	2552.5	2308.3	2118.4	2097.5
52.5°	12466.0	8571.5	2335.4	1989.0	2274.9	2696.5	2790.4	2481.5	2174.7	1963.9	1945.1
55°	12868.8	8321.1	2089.1	1880.4	2151.8	2577.5	2717.3	2383.4	2045.3	1882.5	1855.4
57.5°	12923.0	7803.5	1865.8	1763.6	2022.4	2431.4	2581.7	2264.5	1961.8	1826.2	1803.2
60°	12503.5	7031.3	1692.6	1667.6	1890.9	2266.5	2429.3	2160.1	1876.3	1763.6	1740.6
62.5°	11460.0	6192.3	1571.6	1579.9	1757.3	2093.3	2316.6	2059.9	1794.9	1694.7	1673.8
65°	9665.1	5111.2	1454.7	1490.2	1638.3	1957.7	2214.4	1976.4	1713.5	1642.5	1623.7
67.5°	6714.1	3689.9	1358.7	1396.2	1525.6	1819.9	2095.4	1886.7	1621.6	1584.1	1554.9
70°	3717.0	2270.7	1246.0	1289.8	1408.8	1665.5	1961.8	1751.0	1488.1	1471.4	1429.6
72.5°	1953.5	1446.3	1118.7	1166.7	1250.1	1467.2	1757.3	1602.9	1356.6	1285.6	1231.4
74°	1525.6	1185.4	1033.1	1083.2	1139.5	1350.3	1636.3	1496.4	1262.7	1179.2	1137.4
75°	1329.5	1056.0	960.0	1024.7	1074.8	1271.0	1542.3	1421.3	1210.5	1131.2	1093.6
77.5°	939.2	791.0	784.7	862.0	889.1	1114.5	1390.0	1294.0	1079.0	995.5	960.0
80°	659.5	592.7	621.9	669.9	707.5	985.1	1289.8	1118.7	884.9	786.8	774.3
82.5°	429.9	388.2	444.5	488.4	500.9	726.3	1041.4	849.4	644.9	523.9	486.3
85°	198.3	194.1	254.6	248.4	246.3	354.8	617.8	496.7	371.5	277.6	260.9
87.5°	50.1	48.0	62.6	52.2	62.6	54.3	56.4	14.6	2.1	0.0	0.0
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)