

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: P459465

Luminaire Tested: **GALN-SA9A-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39521 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

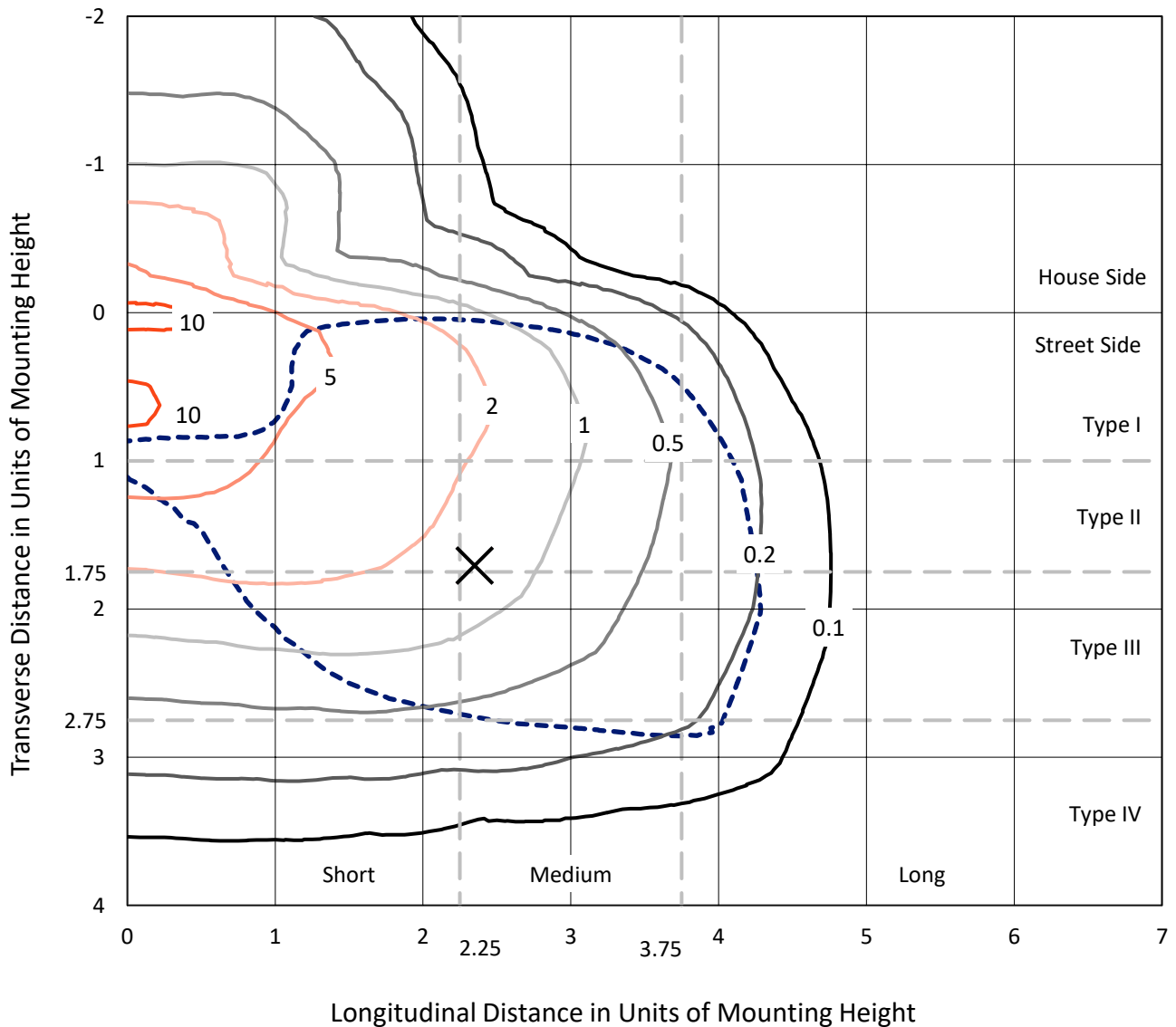
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

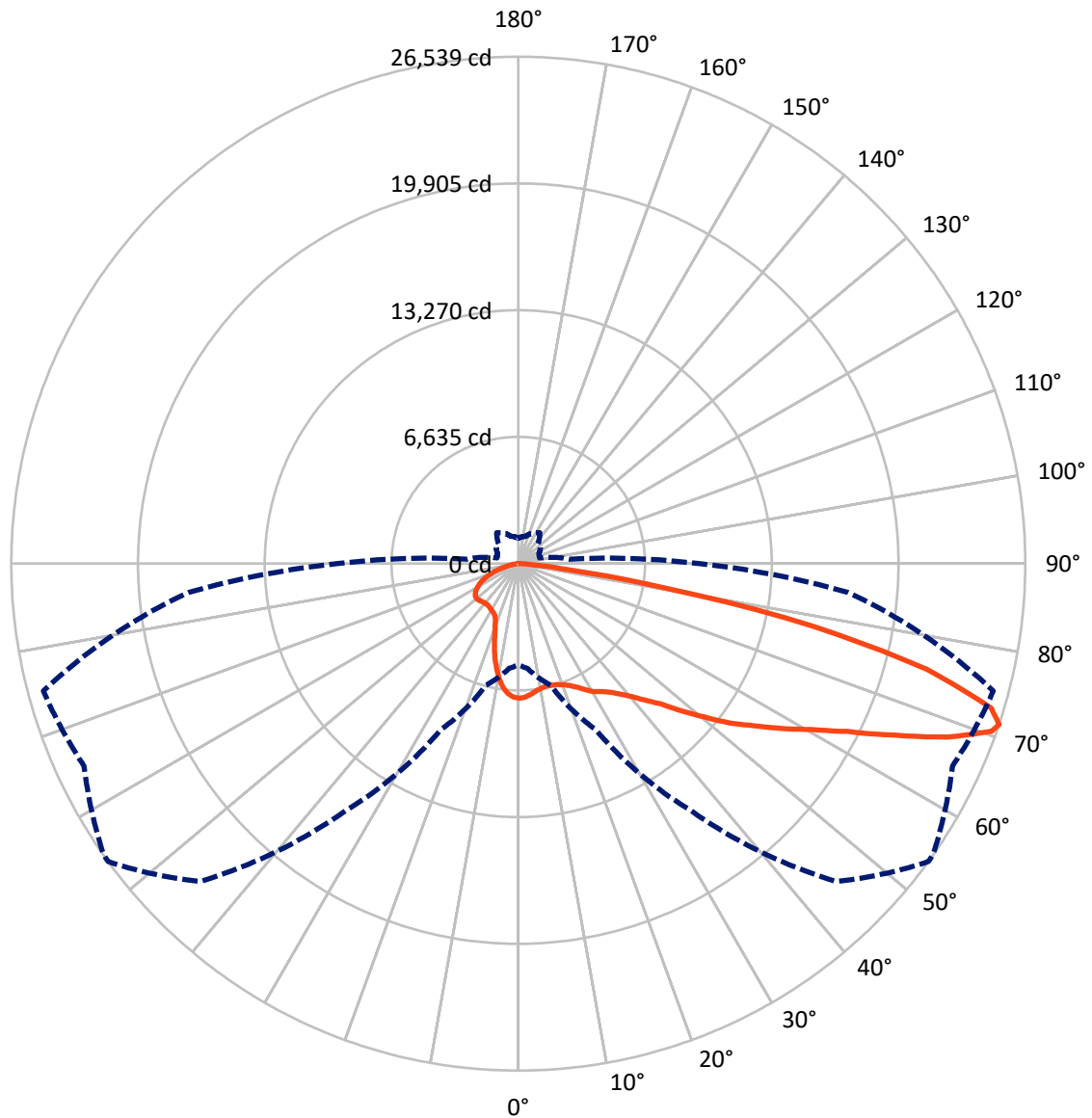
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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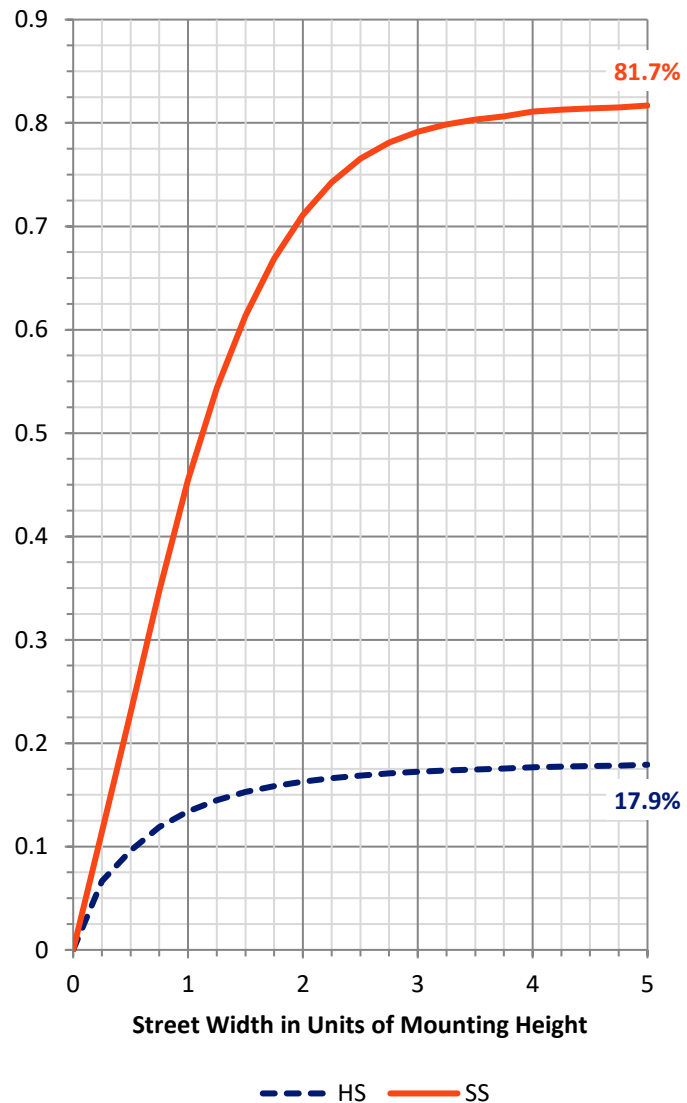
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7135.3	0.0	7135.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32385.7	0.0	32385.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	39521.0	0.0	39521.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.4	1.6
10°-20°	1659.2	4.2
20°-30°	2762.6	7.0
30°-40°	4085.0	10.3
40°-50°	5753.9	14.6
50°-60°	7704.7	19.5
60°-70°	9711.2	24.6
70°-80°	6632.7	16.8
80°-90°	583.3	1.5
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°	39521.0	100.0
0°-180°	39521.0	100.0



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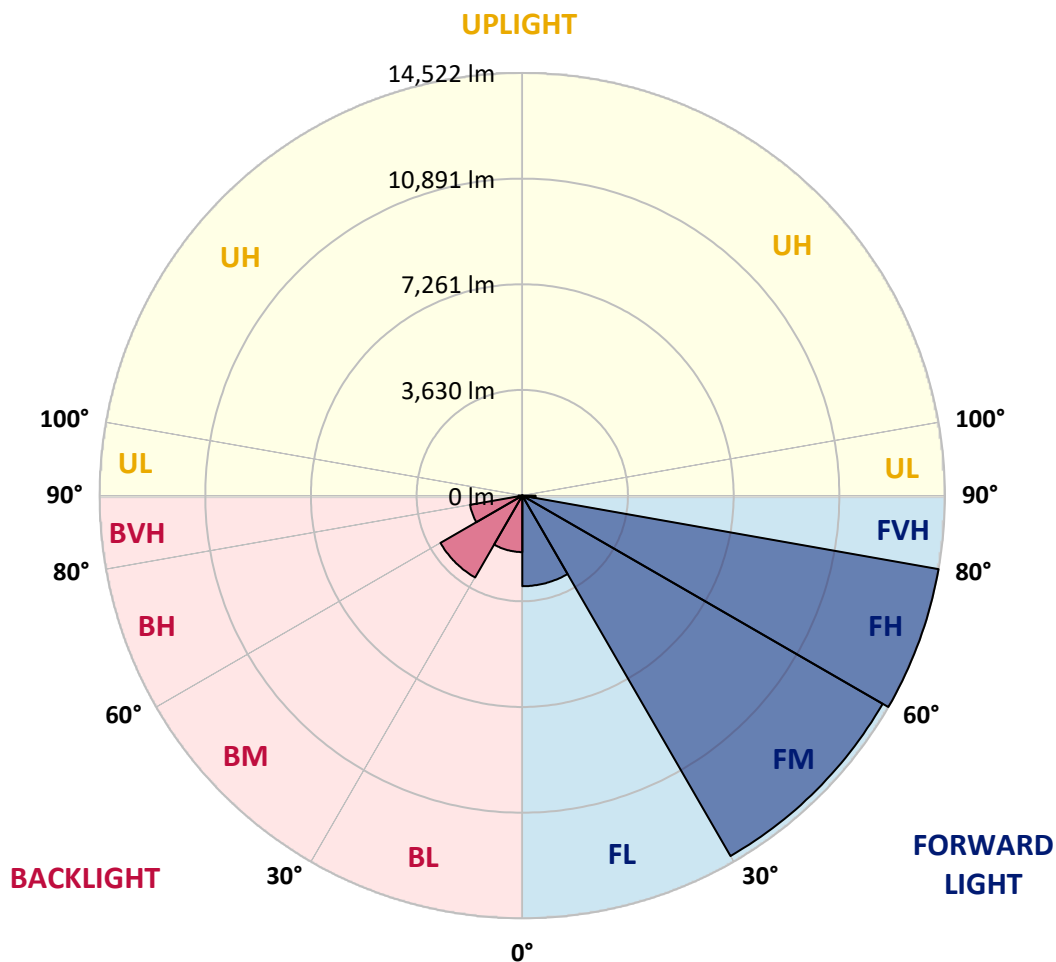
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3110.9	7.9			
FM	(30°-60°)	14297.3	36.2			
FH	(60°-80°)	14521.6	36.7			G5
FVH	(80°-90°)	455.9	1.2			G3/500
BL	(0°-30°)	1939.2	4.9	B3/2500		
BM	(30°-60°)	3246.3	8.2	B3/5000		
BH	(60°-80°)	1822.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	127.4	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7051.1	7051.1	7051.1	7051.1	7051.1	7051.1	7051.1	7051.1	7051.1	7051.1	7051.1
2.5°	6812.0	6844.1	6852.6	6873.9	6918.8	6955.1	6991.4	6987.1	7038.3	7059.7	7078.9
5°	6508.9	6517.4	6549.5	6592.2	6671.1	6771.5	6869.7	6871.8	6997.8	7098.1	7147.2
7.5°	6286.9	6314.6	6336.0	6380.8	6464.1	6572.9	6728.8	6741.6	6965.7	7164.3	7268.9
10°	6141.7	6173.7	6197.2	6252.7	6336.0	6457.7	6626.3	6649.8	6942.3	7268.9	7452.5
12.5°	6009.4	6041.4	6062.7	6135.3	6244.2	6393.6	6583.6	6611.4	6950.8	7390.6	7653.1
15°	6090.5	6116.1	6107.6	6128.9	6201.5	6372.3	6600.7	6628.4	6982.8	7508.0	7851.7
17.5°	6451.3	6472.6	6402.2	6321.0	6286.9	6412.8	6654.1	6684.0	7046.9	7629.7	8054.5
20°	6982.8	7040.5	6886.8	6705.3	6540.9	6558.0	6765.1	6797.1	7136.5	7751.3	8261.5
22.5°	7674.5	7717.2	7529.3	7230.5	6927.3	6771.5	6931.6	6950.8	7271.0	7909.3	8487.8
25°	8487.8	8513.4	8253.0	7868.7	7431.1	7136.5	7160.0	7194.2	7493.0	8088.6	8688.5
27.5°	9277.7	9358.8	9057.8	8588.2	8011.8	7520.8	7473.8	7495.2	7734.3	8189.0	8827.3
30°	10214.9	10208.5	9890.4	9346.0	8607.4	7939.2	7770.5	7766.3	7864.5	8238.1	8927.6
32.5°	10962.0	11049.5	10737.9	10144.4	9288.4	8372.6	7975.5	7966.9	7964.8	8323.5	9077.0
35°	11811.7	11824.5	11538.4	10940.7	10024.9	8916.9	8261.5	8218.8	8169.7	8507.0	9279.8
37.5°	12571.6	12631.4	12368.8	11698.5	10748.5	9482.6	8654.3	8626.6	8477.2	8825.1	9604.3
40°	13165.1	13209.9	13052.0	12413.7	11461.6	10093.2	9153.9	9102.6	8921.2	9346.0	10037.7
42.5°	13359.4	13451.2	13513.1	13199.3	12281.3	10816.9	9768.7	9704.6	9565.9	10135.9	10537.2
45°	13374.3	13519.5	13846.1	13861.0	13105.3	11683.6	10486.0	10441.1	10430.5	11147.7	11239.5
47.5°	13261.2	13408.5	13957.1	14253.8	13839.7	12558.8	11521.3	11450.9	11457.3	12398.7	12027.3
50°	12987.9	13163.0	13829.0	14505.7	14413.9	13468.2	12614.3	12590.8	12723.2	13826.9	12844.9
52.5°	12473.4	12684.8	13696.7	14663.7	14840.9	14251.7	13856.8	13790.6	14125.7	15376.7	13739.4
55°	11049.5	11367.6	13212.1	14751.2	15246.5	15001.0	14975.4	15094.9	15539.0	17067.5	14723.5
57.5°	10306.6	10545.7	12159.6	14766.2	15758.8	15872.0	16281.9	16311.7	17088.8	18862.8	15835.7
60°	9901.0	10112.4	11583.2	14668.0	16474.0	16950.0	17618.2	17725.0	18602.3	20807.6	16988.5
62.5°	9546.7	9728.1	11237.4	14328.5	17280.9	18549.0	19349.5	19400.8	20320.8	22955.1	18126.3
65°	8712.0	8919.1	10541.5	13989.1	17976.9	20547.1	21646.5	21586.8	22150.3	24808.1	18839.3
67.5°	7587.0	7849.5	9241.4	12817.1	18320.6	22731.0	24233.9	24159.1	23956.3	26022.8	19044.2
70°	6150.3	6291.2	7578.4	10791.2	16947.9	23877.4	26276.8	26197.8	25075.0	26182.9	18075.1
71°	5292.1	5512.0	6598.6	9585.1	15805.8	23527.3	26539.4	26518.1	25077.1	25741.0	17345.0
72.5°	4130.8	4265.3	5225.9	7426.9	13434.1	21537.7	25890.4	25971.6	24532.7	24513.5	15840.0
75°	2613.0	2672.7	3279.0	4372.0	7371.3	15252.9	22101.2	22321.1	21783.2	20064.7	11779.6
77.5°	1517.8	1594.7	1964.0	2576.7	3185.1	8278.6	15814.3	16053.4	15135.5	11047.4	4822.4
80°	883.8	969.2	1293.7	1496.5	1462.3	3071.9	8052.3	8460.1	6553.7	2790.1	1353.4
82.5°	491.0	548.6	909.4	911.5	779.2	1003.3	2534.0	2651.4	1870.1	1125.0	552.9
85°	356.5	403.5	587.1	531.6	373.6	431.2	881.7	924.4	755.7	473.9	179.3
87.5°	126.0	179.3	322.3	256.2	102.5	89.7	254.0	207.1	192.1	132.4	40.6
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°	7051.1	7051.1	7051.1	7051.1	7051.1	7051.1	7051.1	7051.1	7051.1	7051.1	7051.1
2.5°	7089.6	7093.8	7072.5	7034.1	6995.6	6946.5	6891.0	6848.3	6829.1	6827.0	6824.8
5°	7166.4	7177.1	7096.0	6976.4	6844.1	6681.8	6543.1	6385.1	6344.5	6280.5	6299.7
7.5°	7290.2	7283.8	7123.7	6869.7	6560.1	6216.4	5926.1	5757.5	5582.4	5533.3	5535.4
10°	7467.4	7426.9	7123.7	6651.9	6135.3	5625.1	5219.5	4963.3	4824.6	4709.3	4666.6
12.5°	7655.3	7552.8	7055.4	6346.7	5588.8	4963.3	4527.8	4182.0	4092.3	3998.4	4000.6
15°	7834.6	7663.8	6920.9	5917.6	4999.6	4256.7	3834.0	3627.0	3599.2	3609.9	3607.8
17.5°	7996.8	7742.8	6716.0	5439.4	4312.2	3650.4	3426.3	3441.2	3516.0	3569.3	3575.7
20°	8161.2	7789.8	6410.7	4799.0	3663.3	3283.3	3291.8	3409.2	3522.4	3594.9	3605.6
22.5°	8317.0	7811.1	6052.1	4179.9	3193.6	3127.4	3253.4	3379.3	3490.3	3560.8	3571.5
25°	8419.5	7762.0	5544.0	3533.0	2963.1	3071.9	3204.3	3311.0	3405.0	3477.5	3494.6
27.5°	8447.3	7604.0	4914.2	3010.0	2856.3	3018.6	3140.2	3219.2	3291.8	3360.1	3372.9
30°	8432.3	7371.3	4222.6	2702.6	2794.4	2956.7	3050.6	3108.2	3195.7	3249.1	3259.8
32.5°	8408.8	7100.2	3501.0	2538.2	2743.2	2899.0	2954.5	3005.8	3003.6	2982.3	2997.2
35°	8417.4	6775.7	2916.1	2440.0	2698.3	2856.3	2903.3	2839.2	2655.6	2647.1	2638.6
37.5°	8462.2	6455.5	2491.3	2371.7	2674.9	2849.9	2875.5	2580.9	2418.7	2344.0	2324.8
40°	8577.5	6081.9	2211.6	2320.5	2672.7	2899.0	2749.6	2450.7	2139.0	1993.9	1983.2
42.5°	8731.2	5714.8	2040.8	2288.5	2698.3	2973.7	2698.3	2267.1	1927.7	1842.3	1829.5
45°	8959.6	5294.2	1946.9	2273.5	2736.8	3001.5	2681.3	2132.6	1842.3	1774.0	1774.0
47.5°	9217.9	4892.9	1895.7	2262.9	2785.9	2982.3	2529.7	2089.9	1801.7	1810.3	1850.8
50°	9474.1	4544.9	1857.2	2239.4	2828.6	2971.6	2467.8	2087.8	1812.4	1921.3	1993.9
52.5°	9770.8	4299.4	1810.3	2200.9	2828.6	2903.3	2448.6	2130.5	1842.3	1874.3	1906.3
55°	10129.5	4222.6	1750.5	2117.7	2777.3	2732.5	2437.9	2192.4	1863.7	1788.9	1801.7
57.5°	10603.4	4346.4	1692.9	2013.1	2659.9	2555.3	2433.6	2209.5	1814.6	1752.6	1739.8
60°	11154.2	4591.9	1675.8	1906.3	2499.8	2403.7	2408.0	2160.4	1746.2	1682.2	1692.9
62.5°	11540.5	4739.2	1665.1	1825.2	2324.8	2237.2	2346.1	2100.6	1716.4	1660.8	1671.5
65°	11540.5	4559.9	1566.9	1701.4	2098.5	2036.6	2271.4	2025.9	1677.9	1613.9	1603.2
67.5°	11102.9	4036.8	1417.5	1515.7	1848.7	1808.1	2166.8	1936.2	1620.3	1571.2	1545.6
70°	9963.0	3061.3	1229.6	1297.9	1532.8	1569.1	2032.3	1814.6	1524.2	1464.4	1426.0
71°	9461.3	2666.3	1150.6	1186.9	1411.1	1464.4	1968.3	1763.3	1481.5	1396.1	1327.8
72.5°	8494.2	2245.8	1031.1	1046.0	1206.1	1302.2	1833.8	1665.1	1400.4	1278.7	1201.9
75°	6453.4	1639.5	830.4	821.9	892.3	1033.2	1552.0	1483.7	1227.5	1063.1	1018.3
77.5°	2788.0	892.3	621.2	627.6	606.3	783.5	1221.1	1274.5	1052.4	864.6	824.0
80°	845.4	514.5	424.8	433.4	405.6	525.2	860.3	999.1	845.4	672.5	616.9
82.5°	433.4	307.4	290.3	286.1	258.3	296.7	520.9	683.1	604.1	420.5	371.4
85°	187.9	164.4	143.0	138.8	121.7	106.7	185.7	341.6	320.2	234.8	224.2
87.5°	47.0	42.7	27.8	25.6	14.9	2.1	0.0	0.0	0.0	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)