

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: P457696

Luminaire Tested: **GALN-SA9A-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457696
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-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 42425 lumens
Efficiency: N/A
Efficacy: 154.8 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

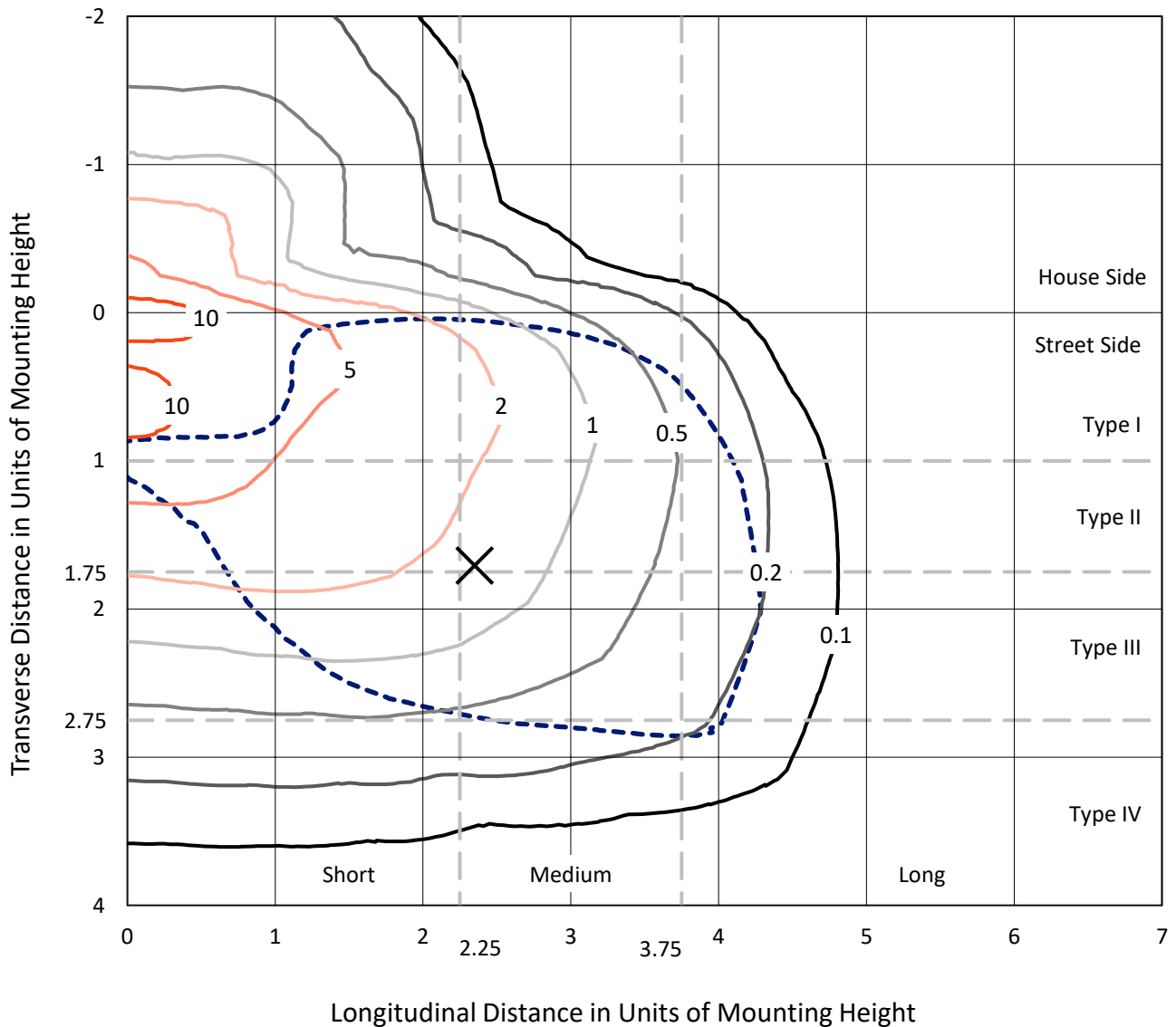
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

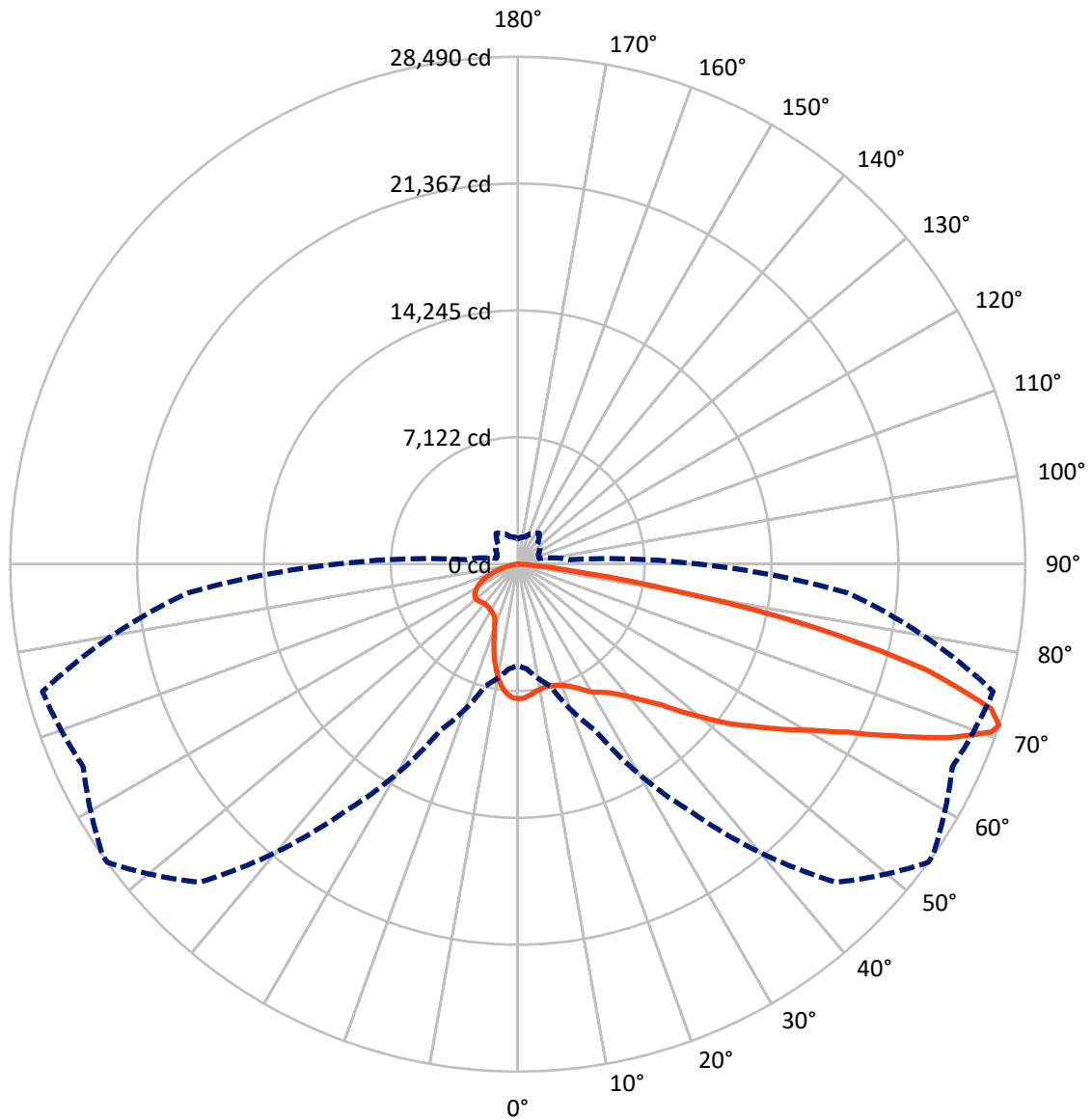
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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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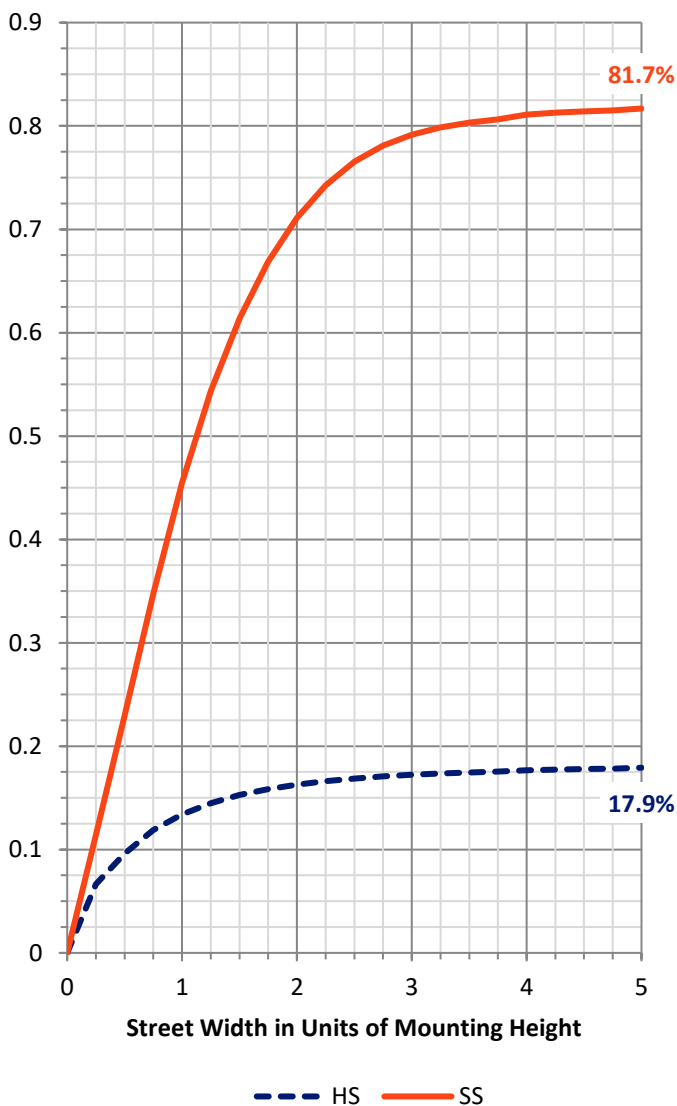
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7659.6	0.0	7659.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	34765.4	0.0	34765.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	42425.0	0.0	42425.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.5	1.6
10°-20°	1781.1	4.2
20°-30°	2965.6	7.0
30°-40°	4385.2	10.3
40°-50°	6176.7	14.6
50°-60°	8270.9	19.5
60°-70°	10424.8	24.6
70°-80°	7120.1	16.8
80°-90°	626.2	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°	42425.0	100.0
0°-180°	42425.0	100.0



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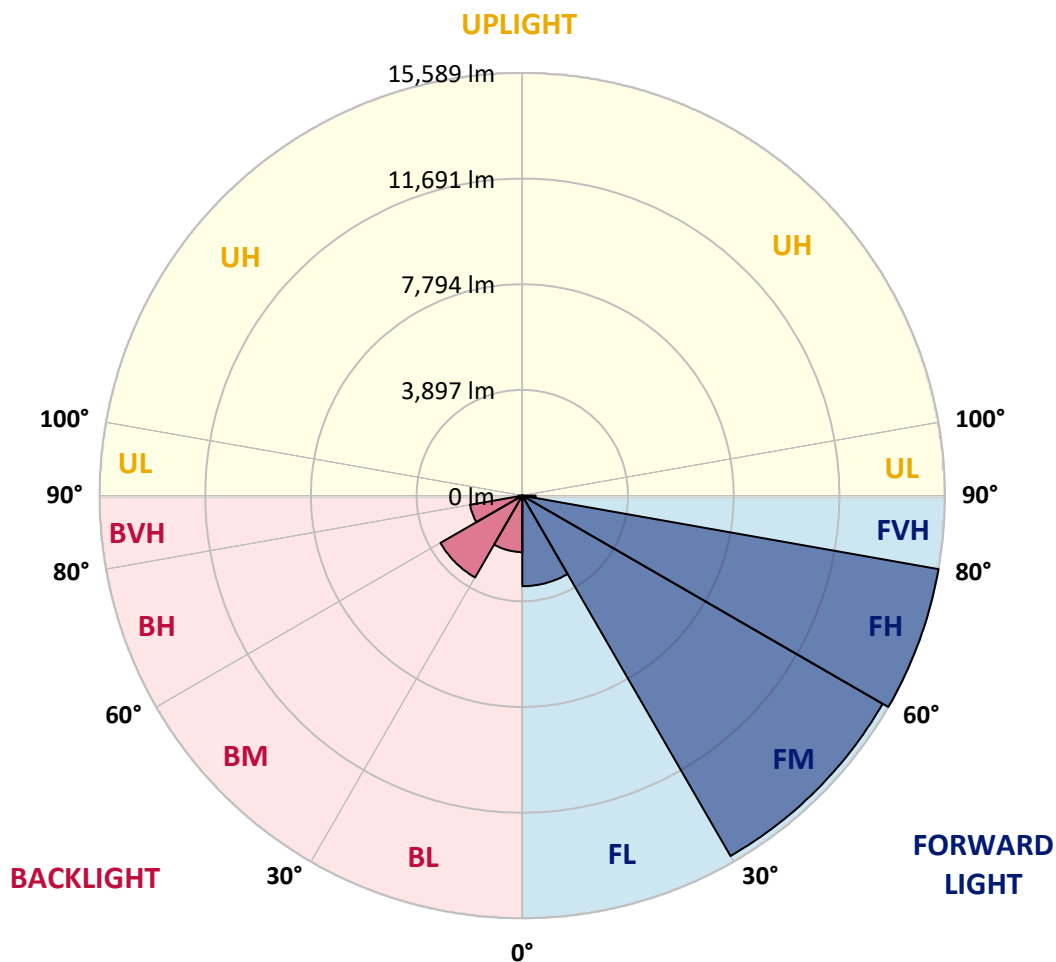
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3339.5	7.9			
FM	(30°-60°)	15347.8	36.2			
FH	(60°-80°)	15588.6	36.7			G5
FVH	(80°-90°)	489.4	1.2			G3/500
BL	(0°-30°)	2081.7	4.9	B3/2500		
BM	(30°-60°)	3484.9	8.2	B3/5000		
BH	(60°-80°)	1956.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	136.7	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°	7569.2	7569.2	7569.2	7569.2	7569.2	7569.2	7569.2	7569.2	7569.2	7569.2	7569.2
2.5°	7312.6	7347.0	7356.1	7379.0	7427.2	7466.1	7505.1	7500.5	7555.5	7578.4	7599.0
5°	6987.2	6996.3	7030.7	7076.5	7161.3	7269.0	7374.5	7376.8	7512.0	7619.7	7672.4
7.5°	6748.8	6778.6	6801.6	6849.7	6939.1	7055.9	7223.2	7237.0	7477.6	7690.7	7803.0
10°	6593.0	6627.4	6652.6	6712.2	6801.6	6932.2	7113.2	7138.4	7452.4	7803.0	8000.1
12.5°	6450.9	6485.3	6508.2	6586.1	6703.0	6863.4	7067.4	7097.2	7461.5	7933.6	8215.5
15°	6538.0	6565.5	6556.3	6579.3	6657.2	6840.5	7085.7	7115.5	7495.9	8059.7	8428.6
17.5°	6925.3	6948.2	6872.6	6785.5	6748.8	6884.1	7143.0	7175.1	7564.7	8190.3	8646.3
20°	7495.9	7557.8	7392.8	7198.0	7021.5	7039.9	7262.2	7296.5	7660.9	8320.9	8868.6
22.5°	8238.4	8284.2	8082.6	7761.7	7436.3	7269.0	7440.9	7461.5	7805.3	8490.5	9111.5
25°	9111.5	9139.0	8859.4	8446.9	7977.2	7660.9	7686.1	7722.8	8043.6	8683.0	9326.9
27.5°	9959.4	10046.5	9723.4	9219.2	8600.5	8073.4	8023.0	8045.9	8302.6	8790.7	9475.9
30°	10965.4	10958.6	10617.1	10032.7	9239.8	8522.6	8341.5	8336.9	8442.4	8843.4	9583.6
32.5°	11767.5	11861.5	11526.9	10889.8	9970.9	8987.8	8561.5	8552.4	8550.1	8935.1	9744.0
35°	12679.6	12693.3	12386.3	11744.6	10761.5	9572.1	8868.6	8822.8	8770.1	9132.1	9961.7
37.5°	13495.4	13559.6	13277.7	12558.1	11538.3	10179.4	9290.3	9260.5	9100.1	9473.6	10310.0
40°	14132.5	14180.6	14011.0	13325.8	12303.8	10834.8	9826.5	9771.5	9576.7	10032.7	10775.2
42.5°	14341.0	14439.5	14506.0	14169.1	13183.7	11611.7	10486.5	10417.7	10268.8	10880.7	11311.5
45°	14357.1	14512.9	14863.5	14879.5	14068.3	12542.1	11256.5	11208.4	11196.9	11966.9	12065.4
47.5°	14235.6	14393.7	14982.7	15301.2	14856.6	13481.6	12367.9	12292.3	12299.2	13309.8	12911.0
50°	13942.3	14130.2	14845.2	15571.6	15473.1	14457.9	13541.2	13516.0	13658.1	14842.9	13788.7
52.5°	13390.0	13616.9	14703.1	15741.2	15931.4	15298.9	14875.0	14803.9	15163.7	16506.6	14748.9
55°	11861.5	12202.9	14182.9	15835.2	16366.8	16103.3	16075.8	16204.1	16680.8	18321.6	15805.4
57.5°	11064.0	11320.6	13053.1	15851.2	16916.8	17038.3	17478.2	17510.3	18344.5	20248.8	16999.3
60°	10628.6	10855.4	12434.4	15745.8	17684.5	18195.5	18912.8	19027.4	19969.2	22336.5	18236.8
62.5°	10248.2	10443.0	12063.1	15381.4	18550.7	19912.0	20771.3	20826.3	21814.0	24641.9	19458.2
65°	9352.1	9574.4	11316.1	15017.0	19297.8	22056.9	23237.1	23172.9	23777.9	26631.0	20223.6
67.5°	8144.4	8426.3	9920.5	13758.9	19666.8	24401.3	26014.6	25934.4	25716.7	27934.9	20443.6
70°	6602.2	6753.4	8135.3	11584.2	18193.2	25631.9	28207.7	28122.9	26917.5	28106.8	19403.2
71°	5680.9	5917.0	7083.4	10289.4	16967.2	25256.0	28489.5	28466.6	26919.8	27632.5	18619.5
72.5°	4434.3	4578.7	5609.9	7972.6	14421.2	23120.2	27792.9	27879.9	26335.4	26314.8	17003.9
75°	2805.0	2869.1	3519.9	4693.3	7913.0	16373.7	23725.2	23961.3	23383.8	21539.0	12645.2
77.5°	1629.3	1711.8	2108.3	2766.0	3419.1	8886.9	16976.4	17233.0	16247.6	11859.2	5176.8
80°	948.7	1040.4	1388.7	1606.4	1569.8	3297.7	8644.0	9081.7	7035.3	2995.2	1452.9
82.5°	527.1	588.9	976.2	978.5	836.4	1077.1	2720.2	2846.2	2007.5	1207.7	593.5
85°	382.7	433.1	630.2	570.6	401.0	462.9	946.4	992.3	811.2	508.7	192.5
87.5°	135.2	192.5	346.0	275.0	110.0	96.2	272.7	222.3	206.2	142.1	43.5
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°	7569.2	7569.2	7569.2	7569.2	7569.2	7569.2	7569.2	7569.2	7569.2	7569.2	7569.2
2.5°	7610.5	7615.1	7592.2	7550.9	7509.7	7457.0	7397.4	7351.5	7330.9	7328.6	7326.3
5°	7693.0	7704.5	7617.4	7489.0	7347.0	7172.8	7023.8	6854.3	6810.7	6742.0	6762.6
7.5°	7825.9	7819.0	7647.2	7374.5	7042.2	6673.2	6361.6	6180.5	5992.6	5939.9	5942.2
10°	8016.1	7972.6	7647.2	7140.7	6586.1	6038.4	5603.0	5328.0	5179.1	5055.3	5009.5
12.5°	8217.8	8107.8	7573.8	6813.0	5999.5	5328.0	4860.5	4489.3	4393.1	4292.2	4294.5
15°	8410.3	8226.9	7429.5	6352.4	5367.0	4569.5	4115.8	3893.5	3863.7	3875.1	3872.9
17.5°	8584.4	8311.7	7209.5	5839.1	4629.1	3918.7	3678.1	3694.1	3774.3	3831.6	3838.5
20°	8760.9	8362.2	6881.8	5151.6	3932.4	3524.5	3533.7	3659.7	3781.2	3859.1	3870.6
22.5°	8928.2	8385.1	6496.8	4487.0	3428.3	3357.2	3492.4	3627.6	3746.8	3822.4	3833.9
25°	9038.2	8332.4	5951.4	3792.6	3180.8	3297.7	3439.7	3554.3	3655.1	3733.1	3751.4
27.5°	9068.0	8162.8	5275.3	3231.2	3066.2	3240.4	3371.0	3455.8	3533.7	3607.0	3620.8
30°	9051.9	7913.0	4532.8	2901.2	2999.7	3173.9	3274.7	3336.6	3430.6	3487.9	3499.3
32.5°	9026.7	7622.0	3758.3	2724.7	2944.7	3112.0	3171.6	3226.6	3224.3	3201.4	3217.4
35°	9035.9	7273.6	3130.4	2619.3	2896.6	3066.2	3116.6	3047.9	2850.8	2841.6	2832.5
37.5°	9084.0	6929.9	2674.3	2546.0	2871.4	3059.3	3086.8	2770.6	2596.4	2516.2	2495.6
40°	9207.8	6528.8	2374.1	2491.0	2869.1	3112.0	2951.6	2630.8	2296.2	2140.4	2128.9
42.5°	9372.8	6134.7	2190.8	2456.6	2896.6	3192.2	2896.6	2433.7	2069.3	1977.7	1963.9
45°	9618.0	5683.2	2090.0	2440.6	2937.9	3222.0	2878.3	2289.3	1977.7	1904.3	1904.3
47.5°	9895.3	5252.4	2035.0	2429.1	2990.6	3201.4	2715.6	2243.5	1934.1	1943.3	1986.8
50°	10170.2	4878.9	1993.7	2403.9	3036.4	3189.9	2649.1	2241.2	1945.6	2062.5	2140.4
52.5°	10488.8	4615.3	1943.3	2362.7	3036.4	3116.6	2628.5	2287.0	1977.7	2012.0	2046.4
55°	10873.8	4532.8	1879.1	2273.3	2981.4	2933.3	2617.0	2353.5	2000.6	1920.4	1934.1
57.5°	11382.5	4665.8	1817.3	2161.0	2855.4	2743.1	2612.5	2371.8	1947.9	1881.4	1867.7
60°	11973.8	4929.3	1798.9	2046.4	2683.5	2580.4	2585.0	2319.1	1874.6	1805.8	1817.3
62.5°	12388.5	5087.4	1787.5	1959.3	2495.6	2401.6	2518.5	2255.0	1842.5	1782.9	1794.3
65°	12388.5	4894.9	1682.1	1826.4	2252.7	2186.2	2438.3	2174.8	1801.2	1732.5	1721.0
67.5°	11918.8	4333.5	1521.6	1627.1	1984.6	1941.0	2326.0	2078.5	1739.3	1686.6	1659.1
70°	10695.0	3286.2	1320.0	1393.3	1645.4	1684.3	2181.6	1947.9	1636.2	1572.1	1530.8
71°	10156.5	2862.2	1235.2	1274.1	1514.8	1572.1	2112.9	1892.9	1590.4	1498.7	1425.4
72.5°	9118.4	2410.8	1106.9	1122.9	1294.8	1397.9	1968.5	1787.5	1503.3	1372.7	1290.2
75°	6927.6	1760.0	891.4	882.3	957.9	1109.1	1666.0	1592.7	1317.7	1141.2	1093.1
77.5°	2992.9	957.9	666.9	673.7	650.8	841.0	1310.8	1368.1	1129.8	928.1	884.6
80°	907.5	552.3	456.0	465.2	435.4	563.7	923.5	1072.5	907.5	721.9	662.3
82.5°	465.2	330.0	311.7	307.1	277.3	318.5	559.2	733.3	648.5	451.5	398.7
85°	201.7	176.5	153.5	149.0	130.6	114.6	199.4	366.7	343.7	252.1	240.6
87.5°	50.4	45.8	29.8	27.5	16.0	2.3	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)