

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: P459146

Luminaire Tested: **GALN-SA6B-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459146
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-SA6B-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32166 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

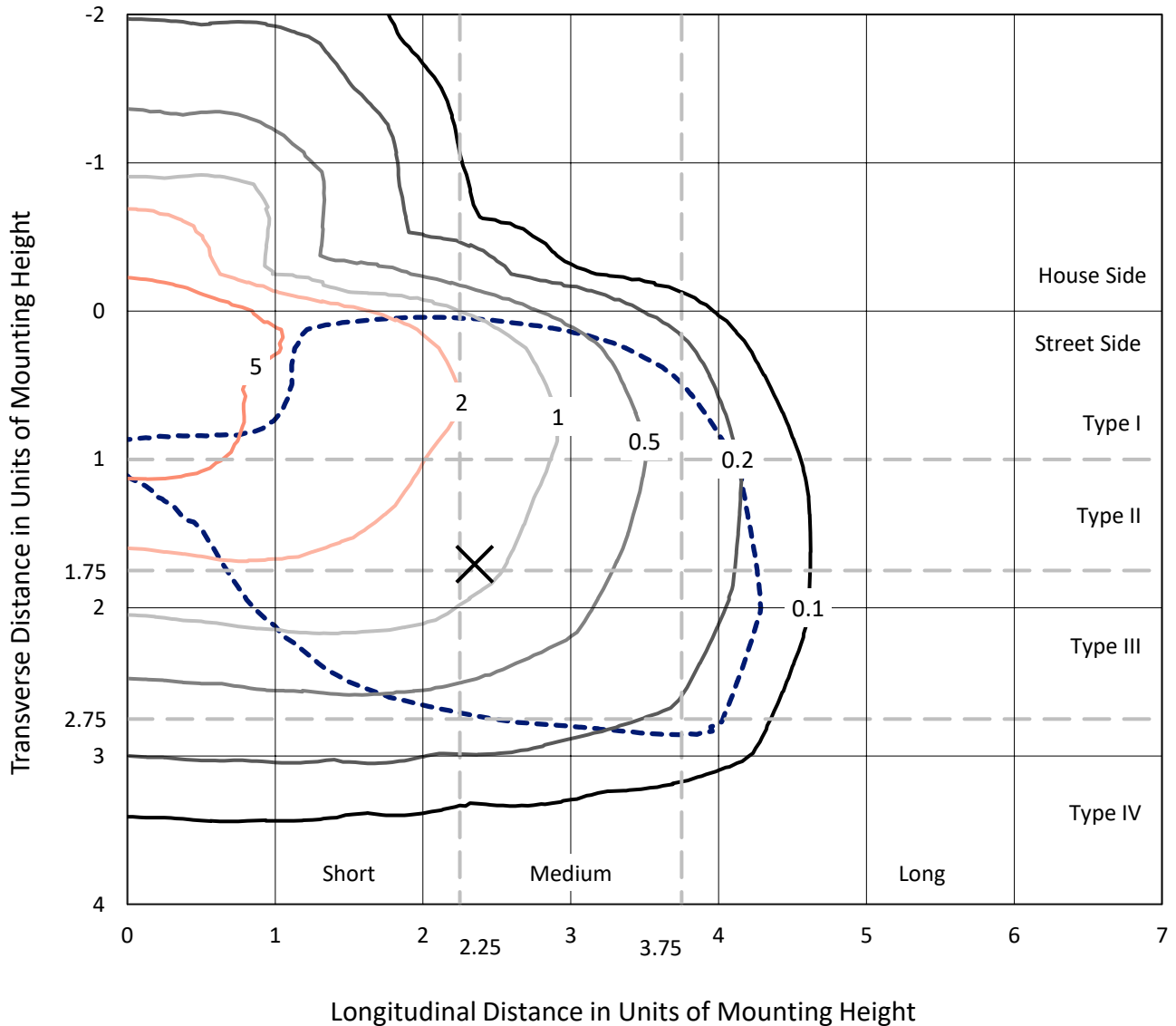
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

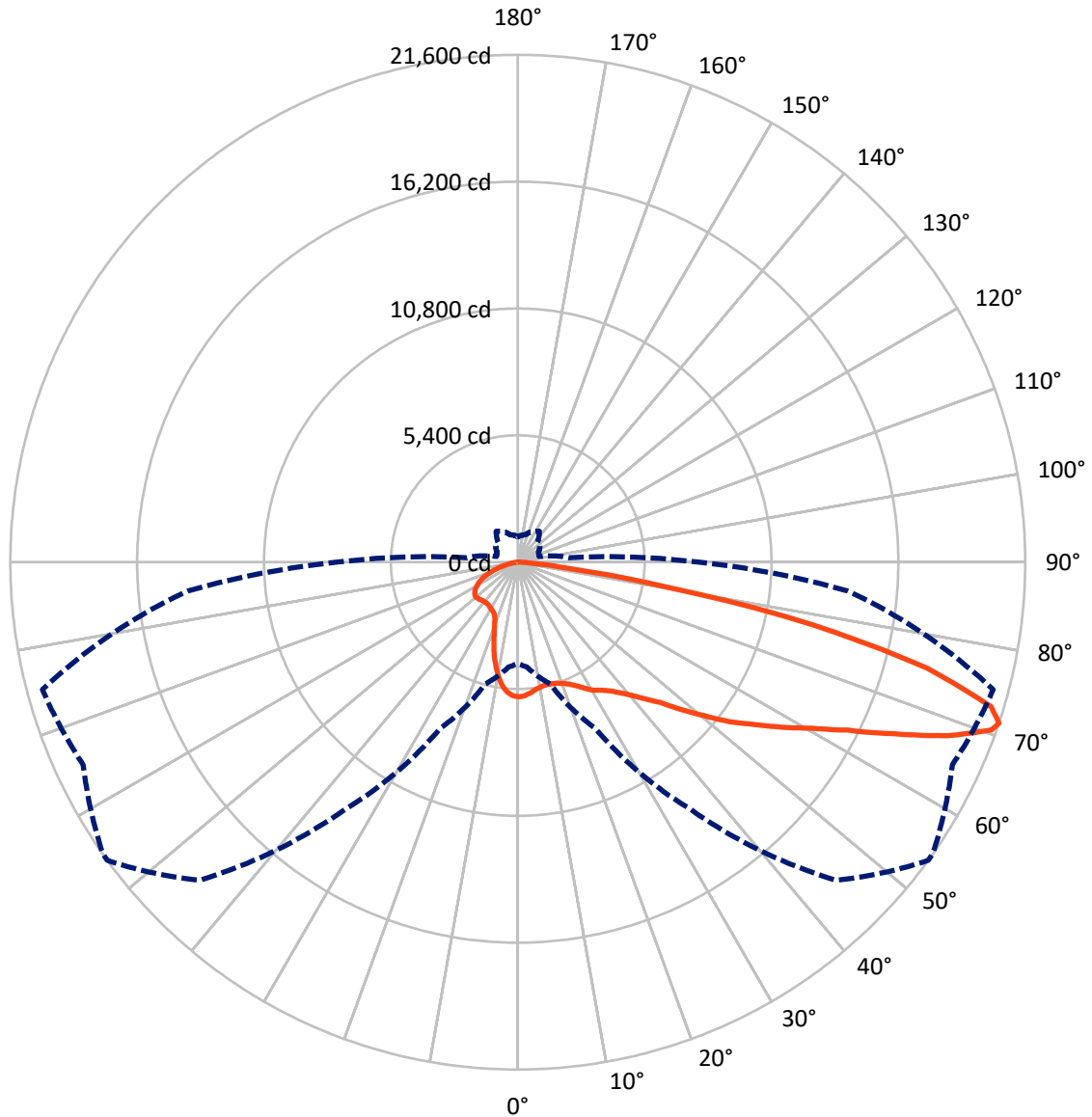
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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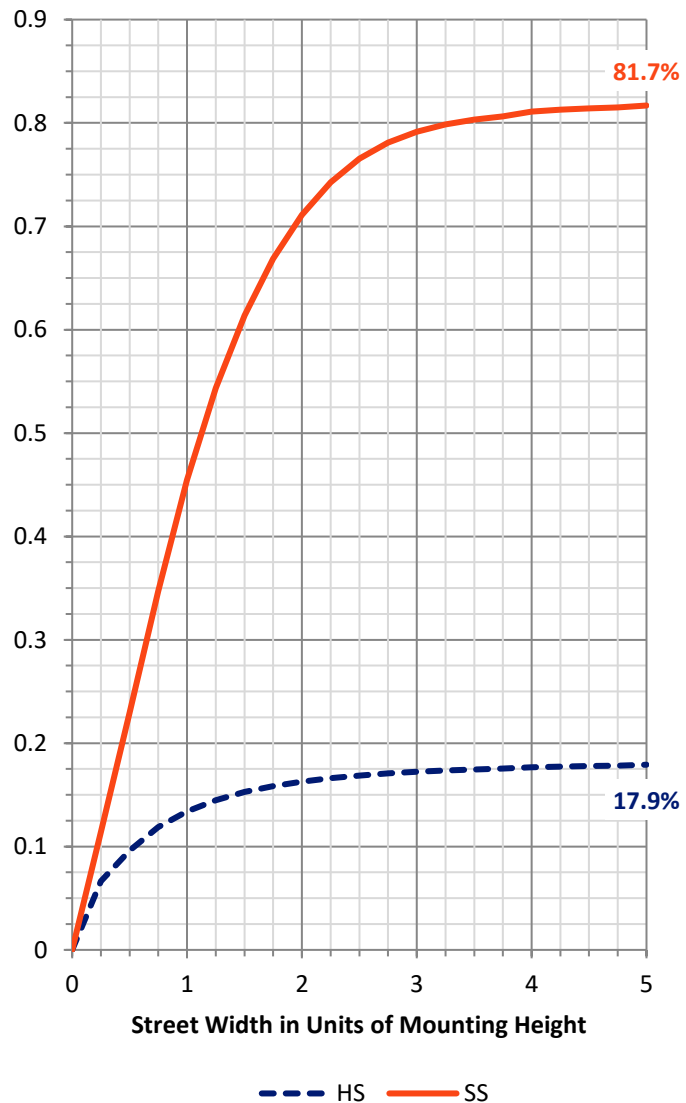
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5807.4	0.0	5807.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26358.6	0.0	26358.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	32166.0	0.0	32166.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.4	1.6
10°-20°	1350.4	4.2
20°-30°	2248.5	7.0
30°-40°	3324.8	10.3
40°-50°	4683.1	14.6
50°-60°	6270.8	19.5
60°-70°	7903.9	24.6
70°-80°	5398.3	16.8
80°-90°	474.7	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°	32166.0	100.0
0°-180°	32166.0	100.0



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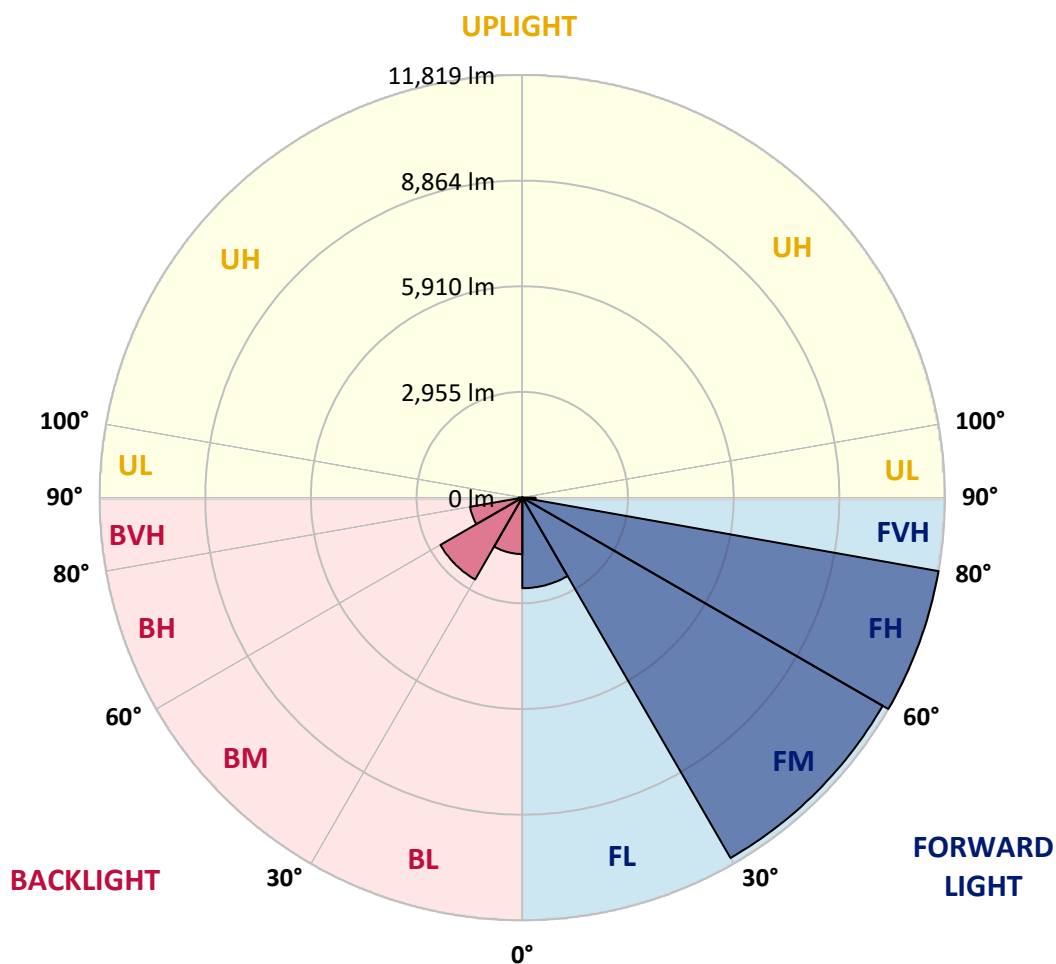
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2532.0	7.9			
FM	(30°-60°)	11636.5	36.2			
FH	(60°-80°)	11819.1	36.7			G4/12000
FVH	(80°-90°)	371.1	1.2			G3/500
BL	(0°-30°)	1578.3	4.9	B3/2500		
BM	(30°-60°)	2642.2	8.2	B3/5000		
BH	(60°-80°)	1483.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	103.7	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5738.9	5738.9	5738.9	5738.9	5738.9	5738.9	5738.9	5738.9	5738.9	5738.9	5738.9
2.5°	5544.3	5570.4	5577.3	5594.7	5631.2	5660.7	5690.2	5686.8	5728.5	5745.8	5761.5
5°	5297.6	5304.5	5330.6	5365.3	5429.6	5511.3	5591.2	5592.9	5695.5	5777.1	5817.1
7.5°	5116.9	5139.5	5156.8	5193.3	5261.1	5349.7	5476.5	5487.0	5669.4	5831.0	5916.1
10°	4998.7	5024.8	5043.9	5089.1	5156.8	5255.9	5393.1	5412.2	5650.3	5916.1	6065.5
12.5°	4891.0	4917.1	4934.4	4993.5	5082.1	5203.7	5358.4	5381.0	5657.2	6015.1	6228.9
15°	4957.0	4977.9	4970.9	4988.3	5047.4	5186.4	5372.3	5394.9	5683.3	6110.7	6390.4
17.5°	5250.7	5268.0	5210.7	5144.7	5116.9	5219.4	5415.7	5440.0	5735.4	6209.7	6555.5
20°	5683.3	5730.2	5605.1	5457.4	5323.6	5337.5	5506.1	5532.1	5808.4	6308.8	6724.0
22.5°	6246.2	6281.0	6128.1	5884.8	5638.1	5511.3	5641.6	5657.2	5917.9	6437.4	6908.2
25°	6908.2	6929.1	6717.1	6404.3	6048.2	5808.4	5827.5	5855.3	6098.5	6583.3	7071.5
27.5°	7551.1	7617.1	7372.1	6989.9	6520.8	6121.1	6082.9	6100.3	6294.9	6665.0	7184.5
30°	8313.8	8308.6	8049.7	7606.7	7005.5	6461.7	6324.4	6320.9	6400.9	6704.9	7266.1
32.5°	8922.0	8993.2	8739.5	8256.5	7559.8	6814.4	6491.2	6484.3	6482.5	6774.4	7387.8
35°	9613.5	9623.9	9391.1	8904.6	8159.2	7257.4	6724.0	6689.3	6649.3	6923.9	7552.8
37.5°	10232.0	10280.7	10066.9	9521.4	8748.2	7717.9	7043.7	7021.1	6899.5	7182.7	7816.9
40°	10715.0	10751.5	10622.9	10103.4	9328.5	8214.8	7450.3	7408.6	7260.9	7606.7	8169.6
42.5°	10873.1	10947.9	10998.2	10742.8	9995.7	8803.8	7950.7	7898.6	7785.6	8249.5	8576.2
45°	10885.3	11003.4	11269.3	11281.4	10666.4	9509.2	8534.5	8498.0	8489.3	9073.1	9147.8
47.5°	10793.2	10913.1	11359.6	11601.1	11264.1	10221.6	9377.2	9319.8	9325.0	10091.3	9789.0
50°	10570.8	10713.3	11255.4	11806.2	11731.5	10961.8	10266.8	10247.6	10355.4	11253.6	10454.4
52.5°	10152.1	10324.1	11147.7	11934.7	12078.9	11599.4	11278.0	11224.1	11496.9	12515.1	11182.4
55°	8993.2	9252.1	10753.3	12006.0	12409.1	12209.3	12188.4	12285.7	12647.1	13891.1	11983.4
57.5°	8388.5	8583.1	9896.7	12018.1	12826.1	12918.2	13251.7	13276.1	13908.5	15352.4	12888.6
60°	8058.4	8230.4	9427.6	11938.2	13408.1	13795.6	14339.4	14426.3	15140.4	16935.2	13826.9
62.5°	7770.0	7917.7	9146.1	11662.0	14064.9	15096.9	15748.5	15790.2	16539.1	18683.1	14752.9
65°	7090.6	7259.2	8579.7	11385.7	14631.3	16723.2	17618.0	17569.4	18028.1	20191.2	15333.2
67.5°	6175.0	6388.7	7521.5	10431.8	14911.0	18500.7	19723.9	19663.0	19498.0	21179.9	15500.0
70°	5005.7	5120.3	6168.0	8783.0	13793.8	19433.7	21386.6	21322.3	20408.4	21310.2	14711.2
71°	4307.2	4486.2	5370.5	7801.3	12864.3	19148.7	21600.3	21583.0	20410.2	20950.5	14117.0
72.5°	3362.0	3471.5	4253.3	6044.7	10934.0	17529.4	21072.1	21138.2	19967.1	19951.5	12892.1
75°	2126.7	2175.3	2668.8	3558.4	5999.5	12414.3	17988.1	18167.1	17729.2	16330.6	9587.4
77.5°	1235.3	1297.9	1598.5	2097.1	2592.3	6737.9	12871.2	13065.8	12318.7	8991.4	3925.0
80°	719.3	788.8	1052.9	1218.0	1190.2	2500.2	6553.8	6885.6	5334.1	2270.9	1101.6
82.5°	399.6	446.5	740.2	741.9	634.2	816.6	2062.4	2157.9	1522.0	915.7	450.0
85°	290.2	328.4	477.8	432.6	304.1	351.0	717.6	752.3	615.1	385.7	145.9
87.5°	102.5	145.9	262.4	208.5	83.4	73.0	206.8	168.5	156.4	107.7	33.0
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°	5738.9	5738.9	5738.9	5738.9	5738.9	5738.9	5738.9	5738.9	5738.9	5738.9	5738.9
2.5°	5770.2	5773.6	5756.3	5725.0	5693.7	5653.8	5608.6	5573.8	5558.2	5556.5	5554.7
5°	5832.7	5841.4	5775.4	5678.1	5570.4	5438.3	5325.4	5196.8	5163.8	5111.7	5127.3
7.5°	5933.5	5928.3	5798.0	5591.2	5339.3	5059.5	4823.2	4686.0	4543.5	4503.5	4505.3
10°	6077.7	6044.7	5798.0	5414.0	4993.5	4578.3	4248.1	4039.6	3926.7	3832.9	3798.1
12.5°	6230.6	6147.2	5742.4	5165.5	4548.7	4039.6	3685.2	3403.7	3330.7	3254.3	3256.0
15°	6376.5	6237.5	5632.9	4816.3	4069.2	3464.5	3120.5	2952.0	2929.4	2938.1	2936.3
17.5°	6508.6	6301.8	5466.1	4427.1	3509.7	2971.1	2788.7	2800.8	2861.6	2905.1	2910.3
20°	6642.4	6340.1	5217.6	3905.9	2981.5	2672.2	2679.2	2774.8	2866.8	2925.9	2934.6
22.5°	6769.2	6357.4	4925.8	3402.0	2599.3	2545.4	2647.9	2750.4	2840.8	2898.1	2906.8
25°	6852.6	6317.5	4512.2	2875.5	2411.6	2500.2	2608.0	2694.8	2771.3	2830.4	2844.3
27.5°	6875.2	6188.9	3999.7	2449.8	2324.7	2456.8	2555.8	2620.1	2679.2	2734.8	2745.2
30°	6863.0	5999.5	3436.7	2199.6	2274.4	2406.4	2482.9	2529.8	2601.0	2644.4	2653.1
32.5°	6843.9	5778.9	2849.5	2065.9	2232.7	2359.5	2404.7	2446.4	2444.6	2427.3	2439.4
35°	6850.9	5514.8	2373.4	1985.9	2196.2	2324.7	2363.0	2310.8	2161.4	2154.5	2147.5
37.5°	6887.4	5254.1	2027.6	1930.3	2177.1	2319.5	2340.4	2100.6	1968.6	1907.8	1892.1
40°	6981.2	4950.1	1800.0	1888.6	2175.3	2359.5	2237.9	1994.6	1741.0	1622.8	1614.1
42.5°	7106.3	4651.2	1661.0	1862.6	2196.2	2420.3	2196.2	1845.2	1568.9	1499.4	1489.0
45°	7292.2	4308.9	1584.6	1850.4	2227.4	2442.9	2182.3	1735.7	1499.4	1443.8	1443.8
47.5°	7502.4	3982.3	1542.9	1841.7	2267.4	2427.3	2058.9	1701.0	1466.4	1473.4	1506.4
50°	7710.9	3699.1	1511.6	1822.6	2302.2	2418.6	2008.5	1699.3	1475.1	1563.7	1622.8
52.5°	7952.4	3499.3	1473.4	1791.3	2302.2	2363.0	1992.9	1734.0	1499.4	1525.5	1551.6
55°	8244.3	3436.7	1424.7	1723.6	2260.5	2224.0	1984.2	1784.4	1516.8	1456.0	1466.4
57.5°	8630.1	3537.5	1377.8	1638.4	2164.9	2079.8	1980.7	1798.3	1476.9	1426.5	1416.0
60°	9078.3	3737.3	1363.9	1551.6	2034.6	1956.4	1959.9	1758.3	1421.3	1369.1	1377.8
62.5°	9392.8	3857.2	1355.2	1485.5	1892.1	1820.9	1909.5	1709.7	1396.9	1351.8	1360.4
65°	9392.8	3711.3	1275.3	1384.8	1707.9	1657.6	1848.7	1648.9	1365.7	1313.5	1304.8
67.5°	9036.6	3285.6	1153.7	1233.6	1504.7	1471.6	1763.5	1575.9	1318.7	1278.8	1257.9
70°	8108.8	2491.5	1000.8	1056.4	1247.5	1277.0	1654.1	1476.9	1240.6	1191.9	1160.6
71°	7700.5	2170.1	936.5	966.0	1148.5	1191.9	1602.0	1435.2	1205.8	1136.3	1080.7
72.5°	6913.4	1827.8	839.2	851.4	981.7	1059.9	1492.5	1355.2	1139.8	1040.7	978.2
75°	5252.4	1334.4	675.9	668.9	726.3	840.9	1263.1	1207.5	999.0	865.3	828.8
77.5°	2269.1	726.3	505.6	510.8	493.4	637.7	993.8	1037.3	856.6	703.7	670.7
80°	688.0	418.7	345.8	352.7	330.1	427.4	700.2	813.1	688.0	547.3	502.1
82.5°	352.7	250.2	236.3	232.8	210.2	241.5	423.9	556.0	491.7	342.3	302.3
85°	152.9	133.8	116.4	112.9	99.0	86.9	151.2	278.0	260.6	191.1	182.4
87.5°	38.2	34.7	22.6	20.8	12.2	1.7	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)