

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: P455115

Luminaire Tested: **GALN-SA6B-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455115
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-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 31447 lumens
Efficiency: N/A
Efficacy: 129.4 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

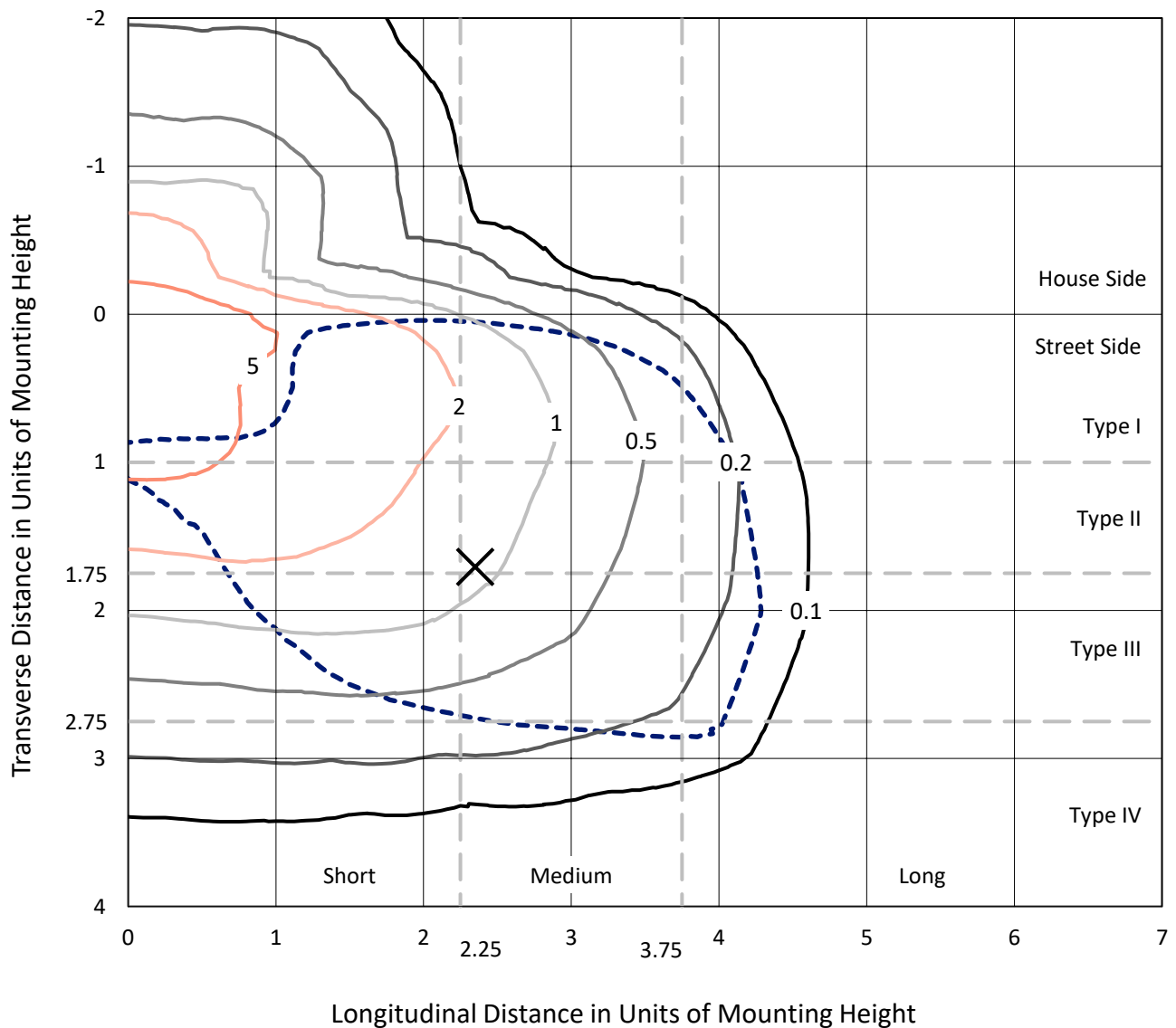




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Iso-Footcandle Lines of Horizontal Illumination

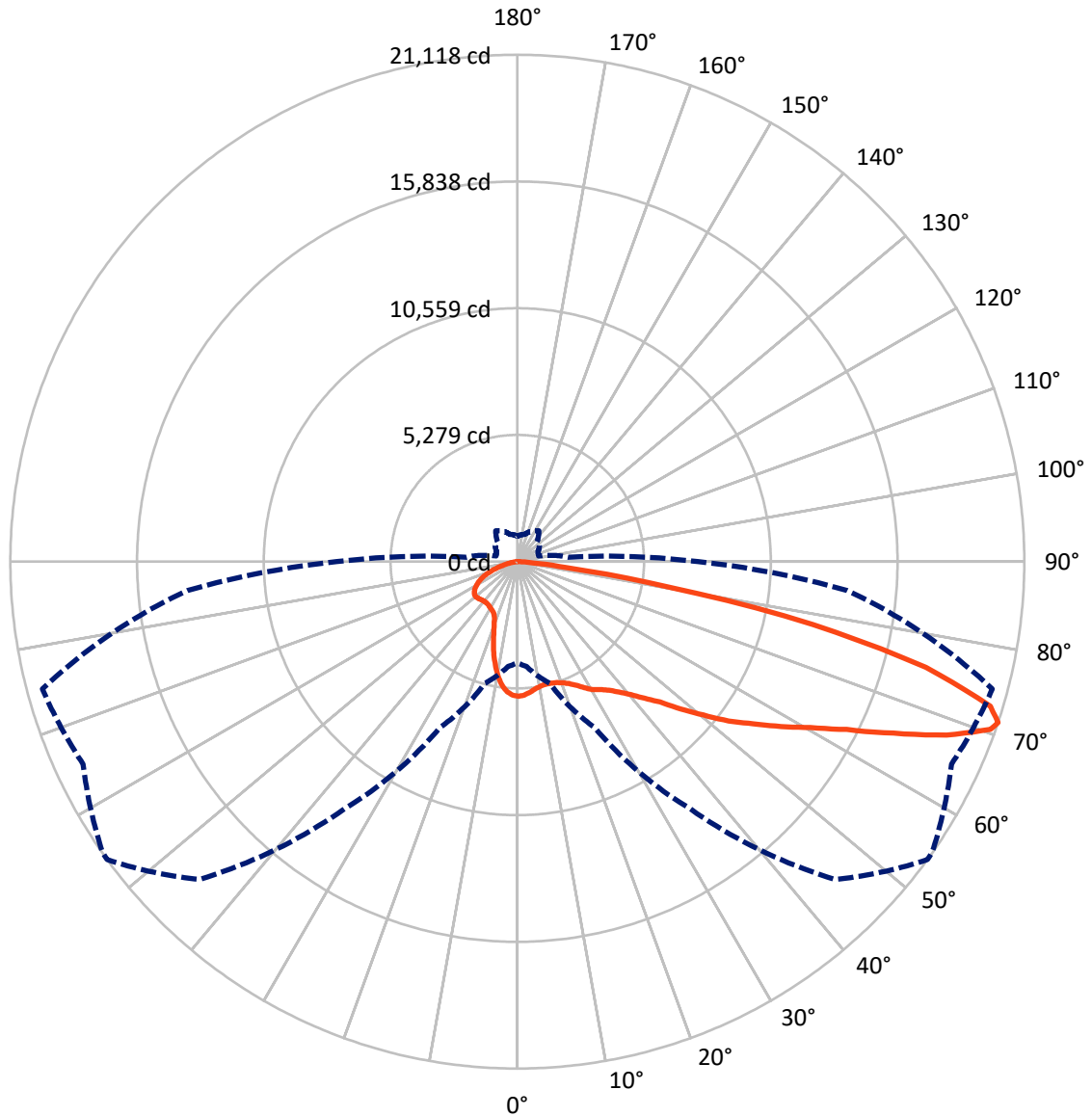
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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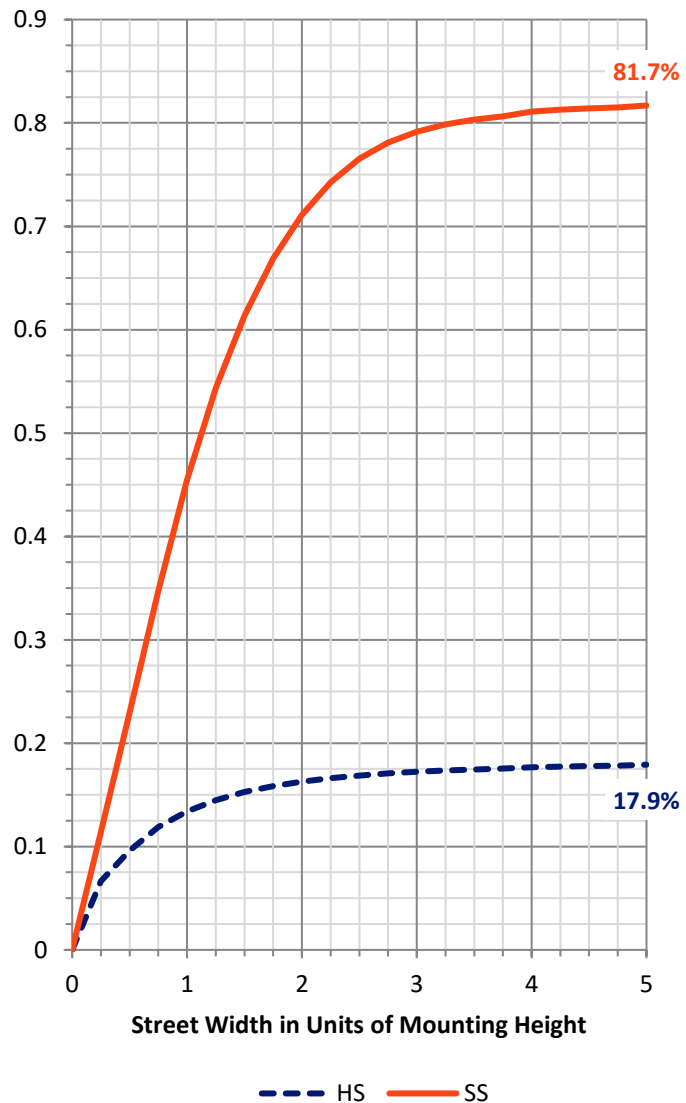
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5677.6	0.0	5677.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	25769.4	0.0	25769.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	31447.0	0.0	31447.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.0	1.6
10°-20°	1320.2	4.2
20°-30°	2198.2	7.0
30°-40°	3250.5	10.3
40°-50°	4578.4	14.6
50°-60°	6130.7	19.5
60°-70°	7727.2	24.6
70°-80°	5277.7	16.8
80°-90°	464.1	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°	31447.0	100.0
0°-180°	31447.0	100.0



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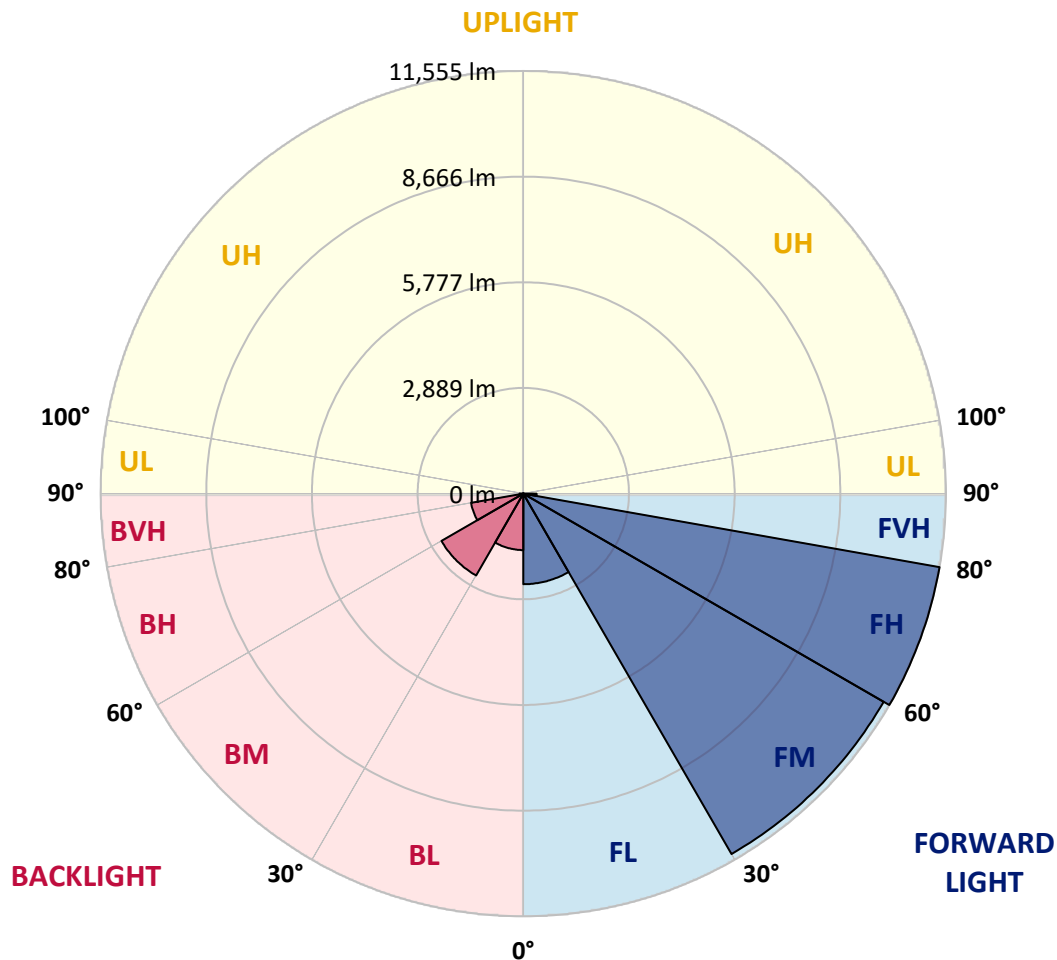
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2475.4	7.9			
FM	(30°-60°)	11376.4	36.2			
FH	(60°-80°)	11554.9	36.7			G4/12000
FVH	(80°-90°)	362.8	1.2			G3/500
BL	(0°-30°)	1543.1	4.9	B3/2500		
BM	(30°-60°)	2583.1	8.2	B3/5000		
BH	(60°-80°)	1450.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	101.3	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°	5610.6	5610.6	5610.6	5610.6	5610.6	5610.6	5610.6	5610.6	5610.6	5610.6	5610.6
2.5°	5420.4	5445.8	5452.6	5469.6	5505.3	5534.2	5563.0	5559.7	5600.4	5617.4	5632.7
5°	5179.2	5186.0	5211.4	5245.4	5308.3	5388.1	5466.2	5467.9	5568.1	5648.0	5687.0
7.5°	5002.5	5024.6	5041.6	5077.2	5143.5	5230.1	5354.1	5364.3	5542.7	5700.6	5783.9
10°	4887.0	4912.5	4931.2	4975.3	5041.6	5138.4	5272.6	5291.3	5524.0	5783.9	5930.0
12.5°	4781.7	4807.2	4824.1	4881.9	4968.5	5087.4	5238.6	5260.7	5530.8	5880.7	6089.6
15°	4846.2	4866.6	4859.8	4876.8	4934.6	5070.4	5252.2	5274.3	5556.3	5974.1	6247.6
17.5°	5133.3	5150.3	5094.2	5029.7	5002.5	5102.7	5294.7	5318.4	5607.2	6070.9	6409.0
20°	5556.3	5602.1	5479.8	5335.4	5204.6	5218.2	5383.0	5408.5	5678.6	6167.8	6573.7
22.5°	6106.6	6140.6	5991.1	5753.3	5512.1	5388.1	5515.5	5530.8	5785.6	6293.5	6753.8
25°	6753.8	6774.2	6566.9	6261.2	5913.0	5678.6	5697.2	5724.4	5962.2	6436.1	6913.5
27.5°	7382.3	7446.8	7207.3	6833.6	6375.0	5984.3	5946.9	5963.9	6154.2	6516.0	7023.9
30°	8128.0	8122.9	7869.8	7436.6	6848.9	6317.2	6183.1	6179.7	6257.8	6555.1	7103.7
32.5°	8722.5	8792.2	8544.2	8071.9	7390.8	6662.1	6346.1	6339.3	6337.6	6623.0	7222.6
35°	9398.6	9408.8	9181.2	8705.5	7976.8	7095.2	6573.7	6539.8	6500.7	6769.1	7384.0
37.5°	10003.3	10050.9	9841.9	9308.6	8552.7	7545.4	6886.3	6864.2	6745.3	7022.2	7642.2
40°	10475.5	10511.2	10385.5	9877.6	9120.0	8031.2	7283.8	7243.0	7098.6	7436.6	7987.0
42.5°	10630.1	10703.1	10752.4	10502.7	9772.3	8607.0	7773.0	7722.0	7611.6	8065.1	8384.5
45°	10642.0	10757.5	11017.4	11029.3	10428.0	9296.7	8343.7	8308.1	8299.6	8870.3	8943.3
47.5°	10552.0	10669.2	11105.7	11341.8	11012.3	9993.1	9167.6	9111.5	9116.6	9865.7	9570.1
50°	10334.5	10473.8	11003.8	11542.3	11469.2	10716.7	10037.3	10018.6	10123.9	11002.1	10220.7
52.5°	9925.2	10093.3	10898.5	11668.0	11809.0	11340.1	11025.9	10973.2	11239.9	12235.3	10932.5
55°	8792.2	9045.3	10512.9	11737.6	12131.7	11936.3	11916.0	12011.1	12364.4	13580.6	11715.5
57.5°	8201.0	8391.3	9675.5	11749.5	12539.4	12629.4	12955.5	12979.3	13597.6	15009.2	12600.5
60°	7878.3	8046.5	9216.8	11671.4	13108.4	13487.2	14018.9	14103.8	14802.0	16556.7	13517.8
62.5°	7596.3	7740.7	8941.6	11401.3	13750.5	14759.5	15396.5	15437.2	16169.4	18265.5	14423.2
65°	6932.2	7096.9	8387.9	11131.2	14304.3	16349.4	17224.2	17176.7	17625.1	19739.9	14990.5
67.5°	6037.0	6245.9	7353.4	10198.6	14577.7	18087.1	19283.0	19223.5	19062.1	20706.4	15153.6
70°	4893.8	5005.9	6030.2	8586.6	13485.5	18999.3	20908.6	20845.7	19952.2	20833.8	14382.4
71°	4210.9	4385.9	5250.5	7626.9	12576.7	18720.7	21117.5	21100.5	19953.9	20482.2	13801.5
72.5°	3286.9	3393.9	4158.3	5909.6	10689.5	17137.6	20601.1	20665.7	19520.8	19505.5	12603.9
75°	2079.1	2126.7	2609.1	3478.8	5865.4	12136.8	17586.0	17761.0	17332.9	15965.5	9373.1
77.5°	1207.7	1268.9	1562.7	2050.3	2534.4	6587.3	12583.5	12773.8	12043.4	8790.5	3837.2
80°	703.2	771.2	1029.4	1190.7	1163.6	2444.3	6407.3	6731.7	5214.8	2220.1	1076.9
82.5°	390.7	436.6	723.6	725.3	620.0	798.4	2016.3	2109.7	1488.0	895.2	439.9
85°	283.7	321.0	467.1	423.0	297.3	343.1	701.5	735.5	601.3	377.1	142.7
87.5°	100.2	142.7	256.5	203.8	81.5	71.3	202.1	164.8	152.9	105.3	32.3
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°	5610.6	5610.6	5610.6	5610.6	5610.6	5610.6	5610.6	5610.6	5610.6	5610.6	5610.6
2.5°	5641.2	5644.6	5627.6	5597.0	5566.4	5527.4	5483.2	5449.2	5434.0	5432.3	5430.6
5°	5702.3	5710.8	5646.3	5551.2	5445.8	5316.7	5206.3	5080.6	5048.4	4997.4	5012.7
7.5°	5800.9	5795.8	5668.4	5466.2	5219.9	4946.4	4715.4	4581.2	4441.9	4402.9	4404.6
10°	5941.8	5909.6	5668.4	5293.0	4881.9	4475.9	4153.2	3949.3	3838.9	3747.2	3713.2
12.5°	6091.3	6009.8	5614.0	5050.1	4447.0	3949.3	3602.8	3327.6	3256.3	3181.6	3183.3
15°	6234.0	6098.1	5507.0	4708.6	3978.2	3387.1	3050.8	2886.0	2863.9	2872.4	2870.7
17.5°	6363.1	6161.0	5343.9	4328.1	3431.3	2904.7	2726.3	2738.2	2797.7	2840.1	2845.2
20°	6493.9	6198.3	5101.0	3818.5	2914.9	2612.5	2619.3	2712.7	2802.8	2860.5	2869.0
22.5°	6617.9	6215.3	4815.6	3325.9	2541.2	2488.5	2588.7	2688.9	2777.3	2833.3	2841.8
25°	6699.4	6176.3	4411.4	2811.3	2357.7	2444.3	2549.7	2634.6	2709.3	2767.1	2780.7
27.5°	6721.5	6050.6	3910.3	2395.1	2272.8	2401.9	2498.7	2561.6	2619.3	2673.7	2683.9
30°	6709.6	5865.4	3359.9	2150.5	2223.5	2352.6	2427.4	2473.2	2542.9	2585.3	2593.8
32.5°	6690.9	5649.7	2785.8	2019.7	2182.8	2306.8	2350.9	2391.7	2390.0	2373.0	2384.9
35°	6697.7	5391.5	2320.3	1941.5	2147.1	2272.8	2310.2	2259.2	2113.1	2106.3	2099.5
37.5°	6733.4	5136.7	1982.3	1887.2	2128.4	2267.7	2288.1	2053.7	1924.6	1865.1	1849.8
40°	6825.1	4839.4	1759.8	1846.4	2126.7	2306.8	2187.8	1950.0	1702.0	1586.5	1578.0
42.5°	6947.4	4547.3	1623.9	1820.9	2147.1	2366.2	2147.1	1804.0	1533.9	1465.9	1455.7
45°	7129.2	4212.6	1549.2	1809.1	2177.7	2388.3	2133.5	1696.9	1465.9	1411.6	1411.6
47.5°	7334.7	3893.3	1508.4	1800.6	2216.7	2373.0	2012.9	1663.0	1433.7	1440.4	1472.7
50°	7538.6	3616.4	1477.8	1781.9	2250.7	2364.5	1963.6	1661.3	1442.1	1528.8	1586.5
52.5°	7774.7	3421.1	1440.4	1751.3	2250.7	2310.2	1948.3	1695.2	1465.9	1491.4	1516.9
55°	8060.1	3359.9	1392.9	1685.1	2209.9	2174.3	1939.8	1744.5	1482.9	1423.5	1433.7
57.5°	8437.1	3458.4	1347.0	1601.8	2116.5	2033.3	1936.5	1758.1	1443.8	1394.6	1384.4
60°	8875.4	3653.8	1333.4	1516.9	1989.1	1912.7	1916.1	1719.0	1389.5	1338.5	1347.0
62.5°	9182.9	3771.0	1324.9	1452.3	1849.8	1780.2	1866.8	1671.5	1365.7	1321.5	1330.0
65°	9182.9	3628.3	1246.8	1353.8	1669.8	1620.5	1807.4	1612.0	1335.1	1284.2	1275.7
67.5°	8834.6	3212.1	1127.9	1206.0	1471.0	1438.7	1724.1	1540.7	1289.3	1250.2	1229.8
70°	7927.6	2435.9	978.4	1032.8	1219.6	1248.5	1617.1	1443.8	1212.8	1165.3	1134.7
71°	7528.4	2121.6	915.6	944.4	1122.8	1165.3	1566.1	1403.1	1178.9	1110.9	1056.6
72.5°	6758.9	1787.0	820.4	832.3	959.7	1036.2	1459.1	1324.9	1114.3	1017.5	956.3
75°	5135.0	1304.6	660.8	654.0	710.0	822.1	1234.9	1180.6	976.7	845.9	810.3
77.5°	2218.4	710.0	494.3	499.4	482.4	623.4	971.6	1014.1	837.4	687.9	655.7
80°	672.7	409.4	338.0	344.8	322.7	417.9	684.6	795.0	672.7	535.1	490.9
82.5°	344.8	244.6	231.0	227.6	205.5	236.1	414.5	543.6	480.7	334.6	295.6
85°	149.5	130.8	113.8	110.4	96.8	84.9	147.8	271.8	254.8	186.9	178.4
87.5°	37.4	34.0	22.1	20.4	11.9	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)