

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: P459233

Luminaire Tested: **GALN-SA7A-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459233
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-SA7A-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 30364 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

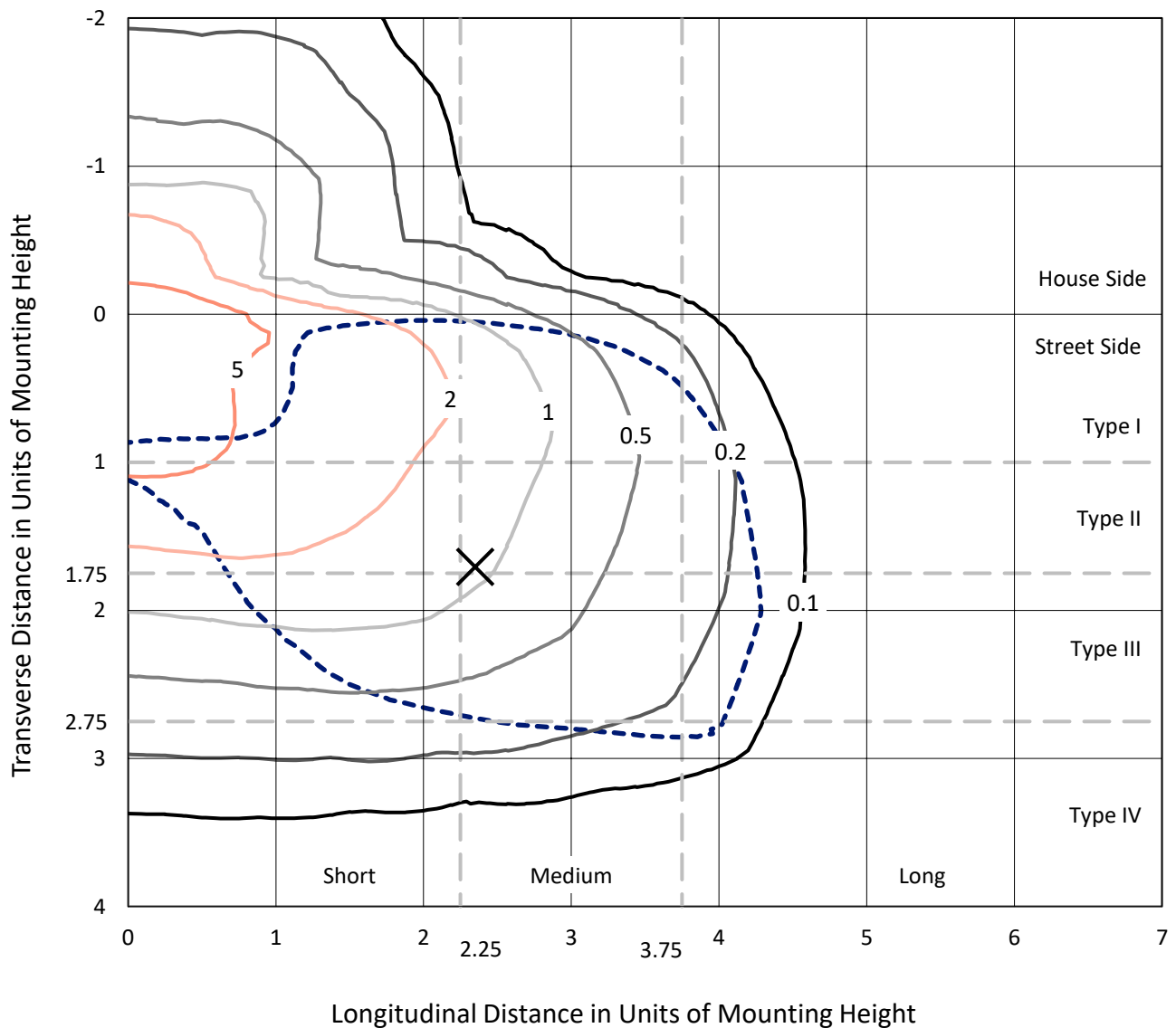
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

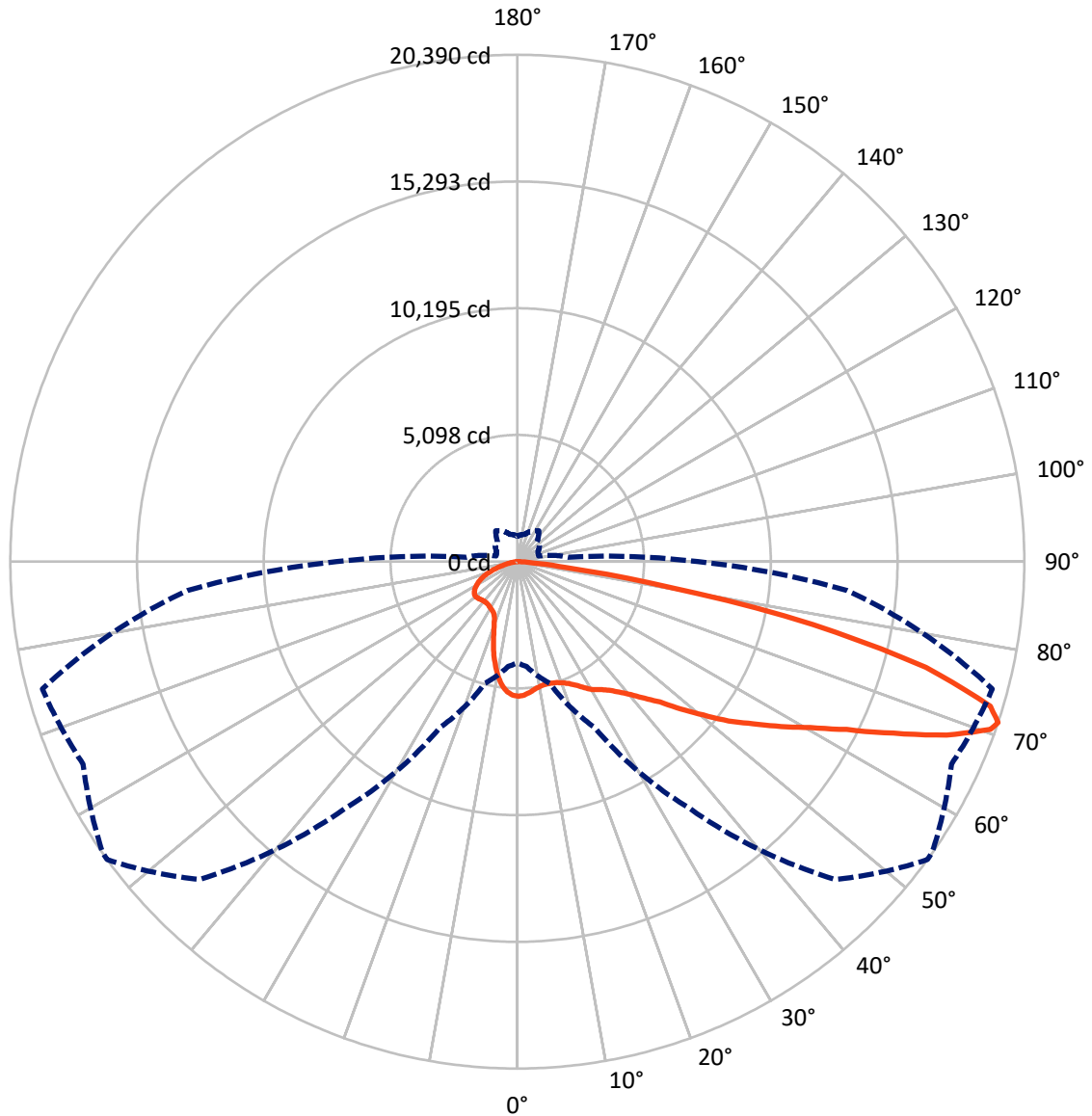
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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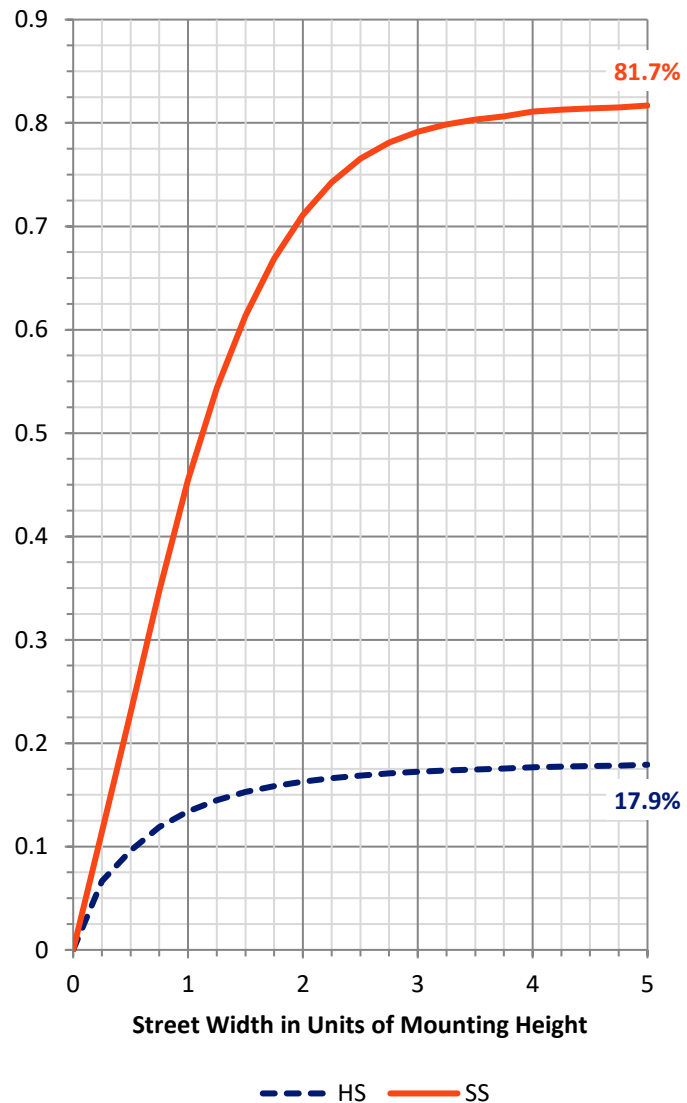
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5482.0	0.0	5482.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24882.0	0.0	24882.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	30364.0	0.0	30364.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.8	1.6
10°-20°	1274.8	4.2
20°-30°	2122.5	7.0
30°-40°	3138.5	10.3
40°-50°	4420.7	14.6
50°-60°	5919.5	19.5
60°-70°	7461.1	24.6
70°-80°	5095.9	16.8
80°-90°	448.2	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°	30364.0	100.0
0°-180°	30364.0	100.0



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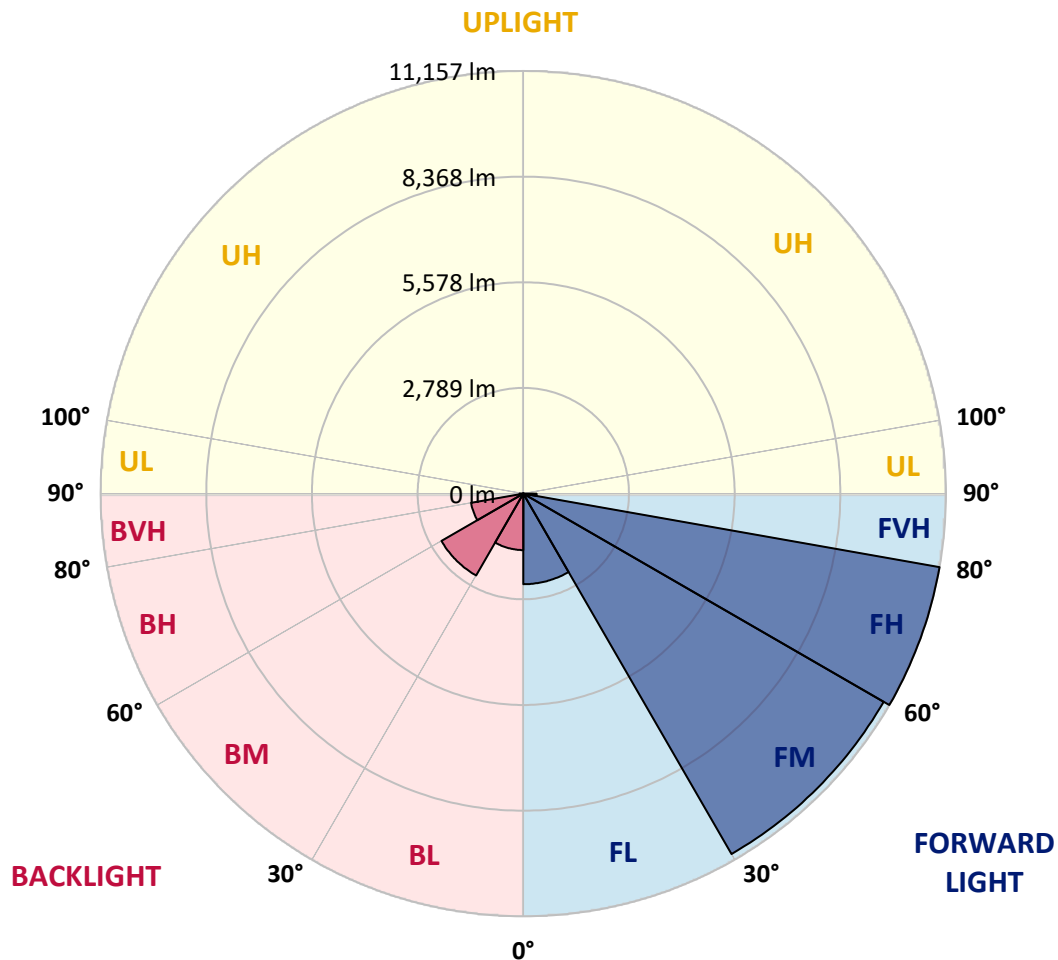
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2390.1	7.9			
FM	(30°-60°)	10984.6	36.2			
FH	(60°-80°)	11156.9	36.7			G4/12000
FVH	(80°-90°)	350.3	1.2			G3/500
BL	(0°-30°)	1489.9	4.9	B3/2500		
BM	(30°-60°)	2494.2	8.2	B2/2500		
BH	(60°-80°)	1400.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	97.9	0.3			G1/100
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°	5417.4	5417.4	5417.4	5417.4	5417.4	5417.4	5417.4	5417.4	5417.4	5417.4	5417.4
2.5°	5233.7	5258.3	5264.9	5281.3	5315.7	5343.6	5371.5	5368.2	5407.5	5423.9	5438.7
5°	5000.8	5007.4	5032.0	5064.8	5125.4	5202.5	5278.0	5279.6	5376.4	5453.5	5491.2
7.5°	4830.2	4851.5	4867.9	4902.4	4966.3	5050.0	5169.7	5179.6	5351.8	5504.3	5584.7
10°	4718.7	4743.3	4761.3	4804.0	4867.9	4961.4	5091.0	5109.0	5333.7	5584.7	5725.7
12.5°	4617.0	4641.6	4658.0	4713.8	4797.4	4912.2	5058.2	5079.5	5340.3	5678.2	5879.9
15°	4679.3	4699.0	4692.4	4708.8	4764.6	4895.8	5071.3	5092.6	5364.9	5768.4	6032.4
17.5°	4956.5	4972.9	4918.8	4856.5	4830.2	4927.0	5112.3	5135.3	5414.1	5861.9	6188.3
20°	5364.9	5409.2	5291.1	5151.7	5025.4	5038.5	5197.6	5222.2	5483.0	5955.4	6347.3
22.5°	5896.3	5929.1	5784.8	5555.2	5322.3	5202.5	5325.5	5340.3	5586.3	6076.7	6521.2
25°	6521.2	6540.9	6340.8	6045.6	5709.3	5483.0	5501.0	5527.3	5756.9	6214.5	6675.4
27.5°	7128.1	7190.4	6959.1	6598.3	6155.5	5778.2	5742.1	5758.5	5942.2	6291.6	6782.0
30°	7848.1	7843.2	7598.8	7180.5	6613.1	6099.7	5970.1	5966.8	6042.3	6329.3	6859.1
32.5°	8422.1	8489.4	8249.9	7794.0	7136.3	6432.6	6127.6	6121.0	6119.4	6394.9	6973.9
35°	9074.9	9084.7	8865.0	8405.7	7702.1	6850.9	6347.3	6314.5	6276.8	6536.0	7129.7
37.5°	9658.8	9704.7	9503.0	8988.0	8258.1	7285.5	6649.1	6627.8	6513.0	6780.3	7379.0
40°	10114.8	10149.2	10027.8	9537.4	8805.9	7754.6	7032.9	6993.6	6854.2	7180.5	7711.9
42.5°	10264.0	10334.5	10382.1	10141.0	9435.7	8310.6	7505.3	7456.1	7349.5	7787.4	8095.7
45°	10275.5	10387.0	10638.0	10649.4	10068.8	8976.5	8056.4	8021.9	8013.7	8564.8	8635.3
47.5°	10188.6	10301.7	10723.2	10951.2	10633.0	9649.0	8851.8	8797.7	8802.6	9525.9	9240.6
50°	9978.6	10113.1	10624.8	11144.8	11074.2	10347.7	9691.6	9673.6	9775.2	10623.2	9868.7
52.5°	9583.3	9745.7	10523.1	11266.1	11402.3	10949.6	10646.2	10595.3	10852.8	11813.9	10556.0
55°	8489.4	8733.8	10150.8	11333.4	11713.9	11525.3	11505.6	11597.4	11938.6	13112.9	11312.1
57.5°	7918.6	8102.3	9342.2	11344.9	12107.5	12194.5	12509.4	12532.3	13129.3	14492.3	12166.6
60°	7607.0	7769.4	8899.4	11269.4	12657.0	13022.7	13536.1	13618.1	14292.2	15986.5	13052.2
62.5°	7334.7	7474.1	8633.7	11008.6	13276.9	14251.2	14866.2	14905.6	15612.5	17636.4	13926.4
65°	6693.4	6852.5	8099.0	10747.8	13811.6	15786.4	16631.0	16585.1	17018.1	19060.1	14474.2
67.5°	5829.1	6030.8	7100.2	9847.4	14075.7	17464.2	18618.9	18561.5	18405.7	19993.3	14631.7
70°	4725.2	4833.5	5822.5	8290.9	13021.1	18345.0	20188.5	20127.8	19265.1	20116.3	13887.1
71°	4065.9	4234.8	5069.7	7364.2	12143.6	18076.0	20390.2	20373.8	19266.7	19776.8	13326.1
72.5°	3173.7	3277.0	4015.1	5706.1	10321.4	16547.4	19891.6	19954.0	18848.5	18833.7	12169.8
75°	2007.5	2053.5	2519.3	3359.0	5663.4	11718.8	16980.4	17149.3	16736.0	15415.7	9050.3
77.5°	1166.1	1225.2	1508.9	1979.7	2447.1	6360.5	12150.2	12333.9	11628.6	8487.7	3705.1
80°	679.0	744.6	993.9	1149.7	1123.5	2360.2	6186.6	6499.9	5035.2	2143.7	1039.8
82.5°	377.2	421.5	698.7	700.3	598.7	770.9	1946.8	2037.1	1436.8	864.4	424.8
85°	273.9	310.0	451.0	408.4	287.0	331.3	677.4	710.2	580.6	364.1	137.8
87.5°	96.8	137.8	247.7	196.8	78.7	68.9	195.2	159.1	147.6	101.7	31.2
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°	5417.4	5417.4	5417.4	5417.4	5417.4	5417.4	5417.4	5417.4	5417.4	5417.4	5417.4
2.5°	5446.9	5450.2	5433.8	5404.3	5374.7	5337.0	5294.4	5261.6	5246.8	5245.2	5243.5
5°	5506.0	5514.2	5451.8	5360.0	5258.3	5133.6	5027.0	4905.7	4874.5	4825.3	4840.1
7.5°	5601.1	5596.2	5473.2	5278.0	5040.2	4776.1	4553.0	4423.5	4289.0	4251.2	4252.9
10°	5737.2	5706.1	5473.2	5110.7	4713.8	4321.8	4010.1	3813.3	3706.7	3618.2	3585.3
12.5°	5881.5	5802.8	5420.7	4876.1	4293.9	3813.3	3478.7	3213.0	3144.2	3072.0	3073.6
15°	6019.3	5888.1	5317.3	4546.5	3841.2	3270.4	2945.7	2786.6	2765.3	2773.5	2771.8
17.5°	6144.0	5948.8	5159.9	4179.1	3313.1	2804.6	2632.4	2643.9	2701.3	2742.3	2747.2
20°	6270.3	5984.9	4925.3	3687.0	2814.5	2522.5	2529.1	2619.3	2706.2	2762.0	2770.2
22.5°	6390.0	6001.3	4649.8	3211.4	2453.7	2402.8	2499.6	2596.3	2681.6	2735.8	2744.0
25°	6468.7	5963.6	4259.4	2714.4	2276.5	2360.2	2461.9	2543.9	2616.0	2671.8	2684.9
27.5°	6490.0	5842.2	3775.6	2312.6	2194.5	2319.2	2412.6	2473.3	2529.1	2581.6	2591.4
30°	6478.6	5663.4	3244.2	2076.4	2146.9	2271.6	2343.8	2388.0	2455.3	2496.3	2504.5
32.5°	6460.5	5455.1	2689.8	1950.1	2107.6	2227.3	2270.0	2309.3	2307.7	2291.3	2302.8
35°	6467.1	5205.8	2240.4	1874.7	2073.1	2194.5	2230.6	2181.4	2040.3	2033.8	2027.2
37.5°	6501.5	4959.8	1914.0	1822.2	2055.1	2189.6	2209.3	1982.9	1858.3	1800.9	1786.1
40°	6590.1	4672.8	1699.2	1782.8	2053.5	2227.3	2112.5	1882.9	1643.4	1531.9	1523.7
42.5°	6708.2	4390.7	1568.0	1758.2	2073.1	2284.7	2073.1	1741.8	1481.0	1415.4	1405.6
45°	6883.7	4067.6	1495.8	1746.8	2102.7	2306.0	2060.0	1638.5	1415.4	1363.0	1363.0
47.5°	7082.1	3759.2	1456.4	1738.5	2140.4	2291.3	1943.6	1605.7	1384.3	1390.8	1422.0
50°	7278.9	3491.9	1426.9	1720.5	2173.2	2283.1	1896.0	1604.1	1392.5	1476.1	1531.9
52.5°	7506.9	3303.2	1390.8	1691.0	2173.2	2230.6	1881.2	1636.9	1415.4	1440.0	1464.6
55°	7782.5	3244.2	1344.9	1627.0	2133.8	2099.4	1873.0	1684.4	1431.8	1374.4	1384.3
57.5°	8146.6	3339.3	1300.6	1546.7	2043.6	1963.2	1869.8	1697.5	1394.1	1346.6	1336.7
60°	8569.7	3527.9	1287.5	1464.6	1920.6	1846.8	1850.1	1659.8	1341.6	1292.4	1300.6
62.5°	8866.6	3641.1	1279.3	1402.3	1786.1	1718.9	1802.5	1613.9	1318.7	1276.0	1284.2
65°	8866.6	3503.3	1203.9	1307.2	1612.3	1564.7	1745.1	1556.5	1289.2	1239.9	1231.7
67.5°	8530.4	3101.5	1089.1	1164.5	1420.4	1389.2	1664.7	1487.6	1244.9	1207.1	1187.5
70°	7654.5	2352.0	944.7	997.2	1177.6	1205.5	1561.4	1394.1	1171.1	1125.1	1095.6
71°	7269.1	2048.5	884.0	911.9	1084.1	1125.1	1512.2	1354.8	1138.3	1072.7	1020.2
72.5°	6526.1	1725.4	792.2	803.7	926.7	1000.5	1408.9	1279.3	1075.9	982.4	923.4
75°	4958.1	1259.6	638.0	631.5	685.6	793.8	1192.4	1139.9	943.1	816.8	782.3
77.5°	2142.0	685.6	477.3	482.2	465.8	601.9	938.2	979.2	808.6	664.3	633.1
80°	649.5	395.3	326.4	332.9	311.6	403.5	661.0	767.6	649.5	516.6	474.0
82.5°	332.9	236.2	223.1	219.8	198.5	228.0	400.2	524.8	464.2	323.1	285.4
85°	144.3	126.3	109.9	106.6	93.5	82.0	142.7	262.4	246.0	180.4	172.2
87.5°	36.1	32.8	21.3	19.7	11.5	1.6	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)