

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: P453578

Luminaire Tested: **GALN-SA4C-760-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453578
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-SA4C-760-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28461 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

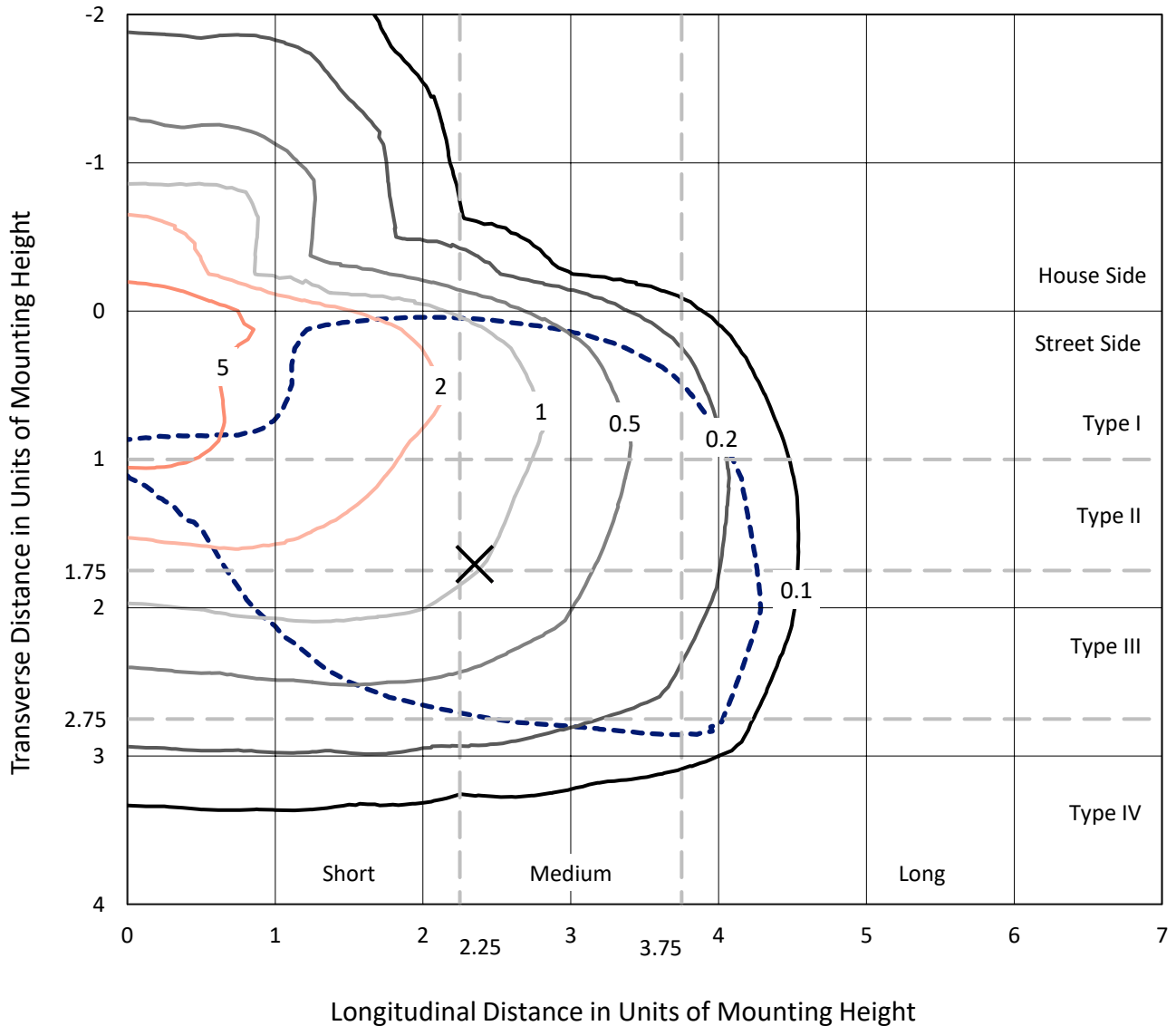
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

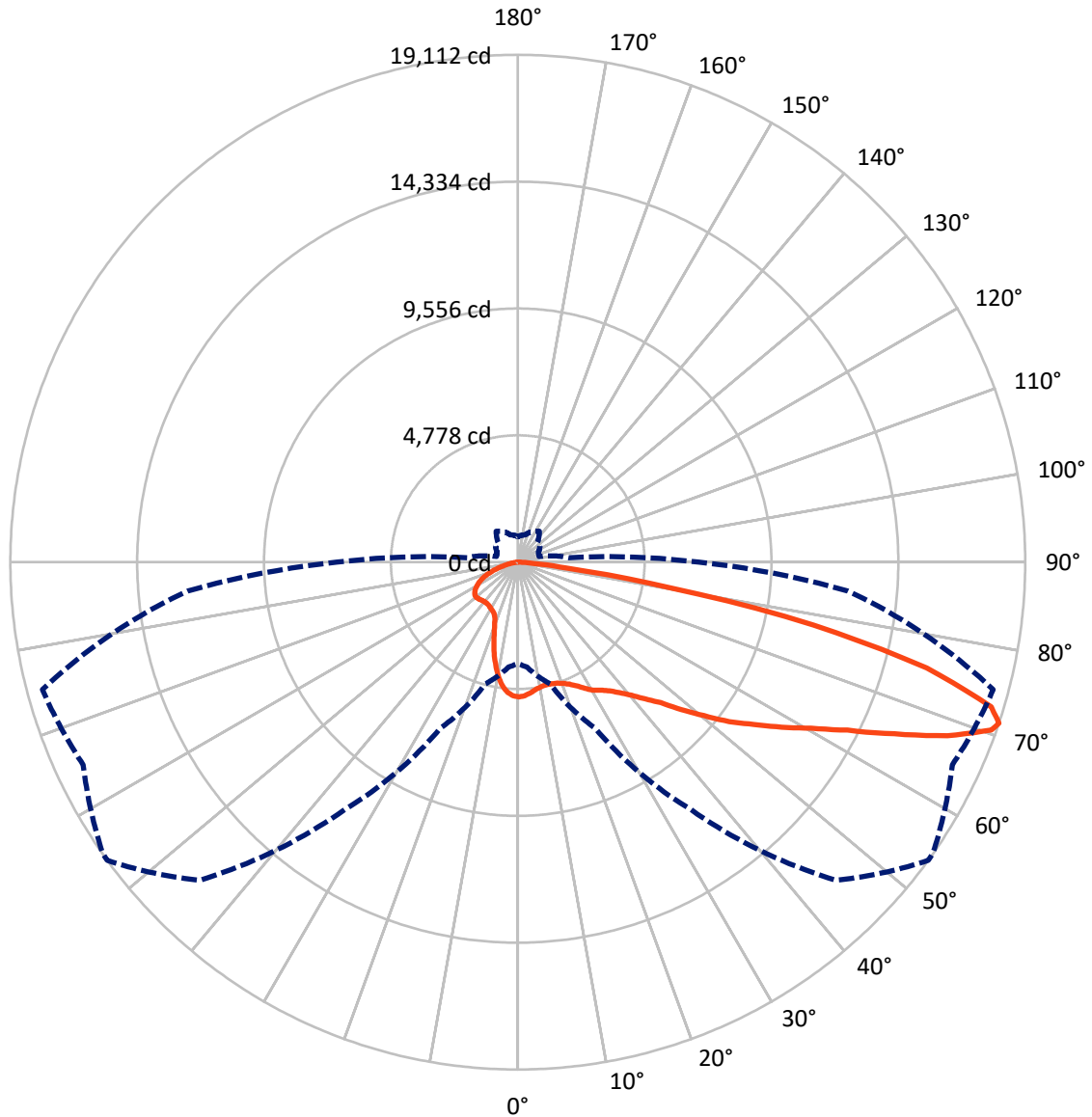
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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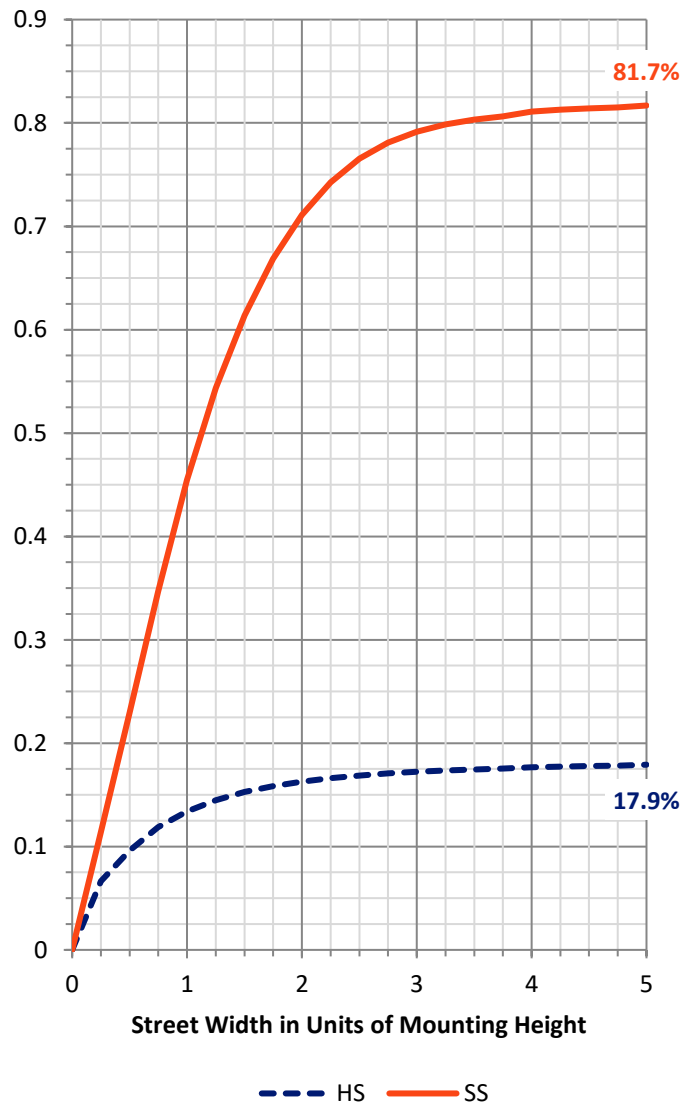
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5138.5	0.0	5138.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23322.5	0.0	23322.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	28461.0	0.0	28461.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.5	1.6
10°-20°	1194.9	4.2
20°-30°	1989.5	7.0
30°-40°	2941.8	10.3
40°-50°	4143.7	14.6
50°-60°	5548.5	19.5
60°-70°	6993.5	24.6
70°-80°	4776.5	16.8
80°-90°	420.1	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°	28461.0	100.0
0°-180°	28461.0	100.0



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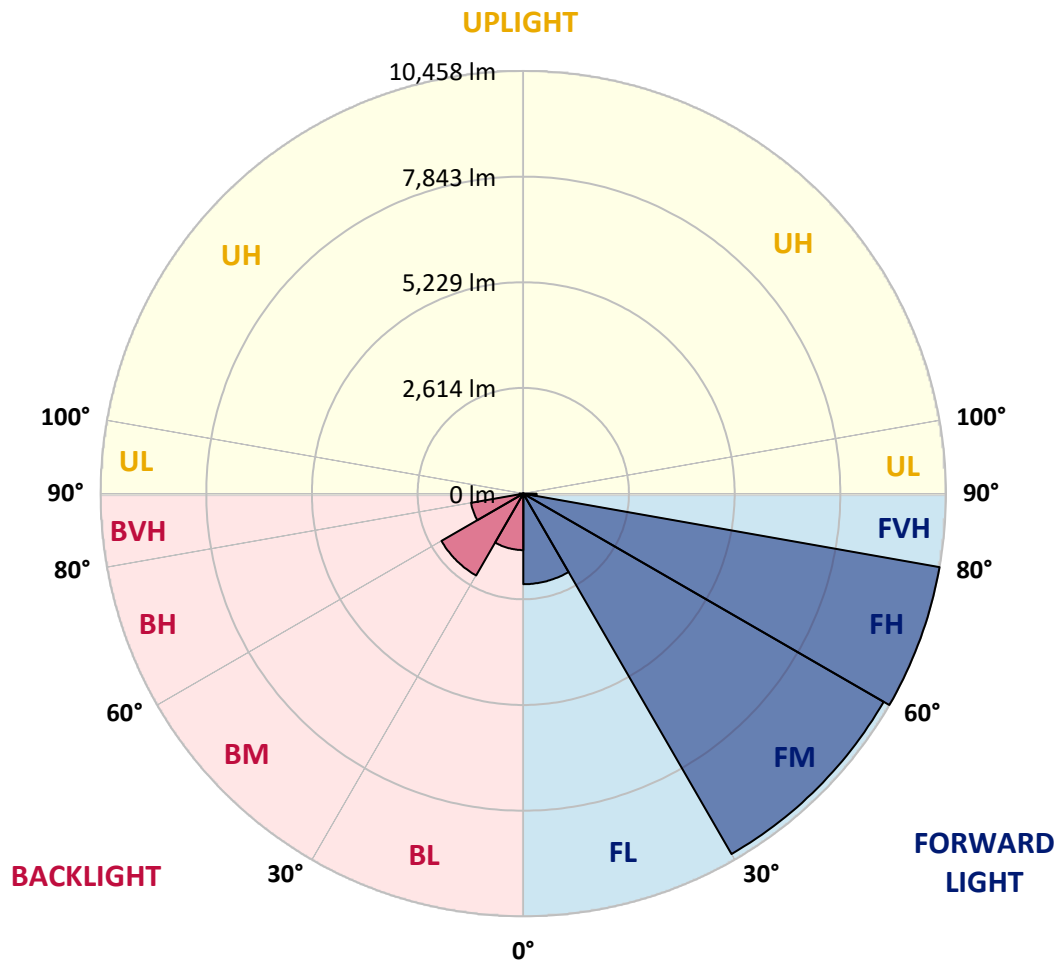
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2240.3	7.9			
FM	(30°-60°)	10296.2	36.2			
FH	(60°-80°)	10457.7	36.7			G4/12000
FVH	(80°-90°)	328.3	1.2			G3/500
BL	(0°-30°)	1396.5	4.9	B3/2500		
BM	(30°-60°)	2337.9	8.2	B2/2500		
BH	(60°-80°)	1312.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	91.7	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°	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9
2.5°	4905.7	4928.7	4934.9	4950.3	4982.5	5008.7	5034.8	5031.7	5068.6	5084.0	5097.8
5°	4687.4	4693.5	4716.6	4747.3	4804.2	4876.5	4947.2	4948.7	5039.4	5111.7	5147.0
7.5°	4527.5	4547.5	4562.9	4595.1	4655.1	4733.5	4845.7	4854.9	5016.4	5159.3	5234.7
10°	4423.0	4446.0	4462.9	4502.9	4562.9	4650.5	4771.9	4788.8	4999.5	5234.7	5366.9
12.5°	4327.6	4350.7	4366.1	4418.3	4496.7	4604.4	4741.2	4761.2	5005.6	5322.3	5511.4
15°	4386.1	4404.5	4398.4	4413.7	4466.0	4589.0	4753.5	4773.5	5028.7	5406.9	5654.4
17.5°	4645.9	4661.2	4610.5	4552.1	4527.5	4618.2	4791.9	4813.4	5074.8	5494.5	5800.4
20°	5028.7	5070.2	4959.5	4828.8	4710.4	4722.7	4871.9	4894.9	5139.4	5582.1	5949.5
22.5°	5526.8	5557.5	5422.2	5207.0	4988.7	4876.5	4991.8	5005.6	5236.2	5695.9	6112.5
25°	6112.5	6130.9	5943.4	5666.7	5351.5	5139.4	5156.3	5180.9	5396.1	5825.0	6257.0
27.5°	6681.3	6739.7	6523.0	6184.8	5769.7	5416.1	5382.3	5397.6	5569.8	5897.3	6356.9
30°	7356.2	7351.6	7122.5	6730.5	6198.6	5717.4	5596.0	5592.9	5663.6	5932.6	6429.2
32.5°	7894.3	7957.3	7732.9	7305.5	6689.0	6029.5	5743.5	5737.4	5735.8	5994.1	6536.8
35°	8506.2	8515.4	8309.4	7878.9	7219.4	6421.5	5949.5	5918.8	5883.4	6126.3	6682.9
37.5°	9053.4	9096.5	8907.4	8424.7	7740.6	6828.9	6232.4	6212.4	6104.8	6355.4	6916.5
40°	9480.8	9513.1	9399.4	8939.7	8254.0	7268.6	6592.2	6555.3	6424.6	6730.5	7228.6
42.5°	9620.7	9686.8	9731.4	9505.4	8844.4	7789.7	7034.9	6988.8	6888.9	7299.3	7588.4
45°	9631.5	9736.0	9971.2	9982.0	9437.8	8413.9	7551.5	7519.2	7511.5	8028.0	8094.1
47.5°	9550.0	9656.1	10051.2	10264.9	9966.6	9044.2	8297.1	8246.3	8251.0	8928.9	8661.4
50°	9353.2	9479.3	9958.9	10446.3	10380.2	9699.1	9084.2	9067.3	9162.6	9957.4	9250.2
52.5°	8982.7	9134.9	9863.6	10560.1	10687.7	10263.3	9978.9	9931.3	10172.6	11073.5	9894.4
55°	7957.3	8186.4	9514.7	10623.1	10979.7	10803.0	10784.5	10870.6	11190.4	12291.1	10603.1
57.5°	7422.3	7594.5	8756.7	10633.8	11348.7	11430.2	11725.4	11746.9	12306.5	13584.0	11404.1
60°	7130.2	7282.4	8341.7	10563.1	11863.7	12206.6	12687.7	12764.6	13396.5	14984.5	12234.2
62.5°	6875.0	7005.7	8092.6	10318.7	12444.8	13358.0	13934.5	13971.4	14634.0	16531.1	13053.6
65°	6273.9	6423.0	7591.4	10074.2	12946.0	14797.0	15588.7	15545.7	15951.5	17865.5	13567.1
67.5°	5463.7	5652.8	6655.2	9230.2	13193.5	16369.7	17452.0	17398.2	17252.1	18740.3	13714.7
70°	4429.1	4530.6	5457.6	7771.3	12205.0	17195.2	18923.2	18866.3	18057.7	18855.6	13016.7
71°	3811.1	3969.4	4751.9	6902.7	11382.5	16943.1	19112.3	19096.9	18059.2	18537.4	12491.0
72.5°	2974.8	3071.6	3763.4	5348.4	9674.5	15510.3	18645.0	18703.4	17667.2	17653.4	11407.1
75°	1881.7	1924.8	2361.4	3148.5	5308.5	10984.4	15916.2	16074.5	15687.1	14449.5	8483.1
77.5°	1093.1	1148.4	1414.4	1855.6	2293.7	5961.8	11388.7	11560.9	10899.8	7955.8	3472.9
80°	636.5	698.0	931.6	1077.7	1053.1	2212.2	5798.9	6092.5	4719.7	2009.3	974.7
82.5°	353.6	395.1	654.9	656.4	561.1	722.6	1824.8	1909.4	1346.7	810.2	398.2
85°	256.7	290.6	422.8	382.8	269.0	310.5	634.9	665.7	544.2	341.3	129.1
87.5°	90.7	129.1	232.1	184.5	73.8	64.6	182.9	149.1	138.4	95.3	29.2
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°	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9
2.5°	5105.5	5108.6	5093.2	5065.6	5037.9	5002.5	4962.6	4931.8	4918.0	4916.4	4914.9
5°	5160.9	5168.6	5110.1	5024.1	4928.7	4811.9	4712.0	4598.2	4569.0	4522.9	4536.7
7.5°	5250.0	5245.4	5130.1	4947.2	4724.3	4476.8	4267.7	4146.2	4020.2	3984.8	3986.3
10°	5377.6	5348.4	5130.1	4790.4	4418.3	4050.9	3758.8	3574.3	3474.4	3391.4	3360.6
12.5°	5512.9	5439.1	5080.9	4570.5	4024.8	3574.3	3260.7	3011.7	2947.1	2879.5	2881.0
15°	5642.1	5519.1	4984.1	4261.5	3600.5	3065.5	2761.1	2612.0	2592.0	2599.7	2598.1
17.5°	5758.9	5576.0	4836.5	3917.2	3105.4	2628.9	2467.4	2478.2	2532.0	2570.4	2575.1
20°	5877.3	5609.8	4616.7	3456.0	2638.1	2364.4	2370.6	2455.1	2536.6	2588.9	2596.6
22.5°	5989.5	5625.2	4358.4	3010.1	2299.9	2252.2	2342.9	2433.6	2513.6	2564.3	2572.0
25°	6063.3	5589.8	3992.5	2544.3	2133.8	2212.2	2307.6	2384.4	2452.1	2504.3	2516.6
27.5°	6083.3	5476.0	3539.0	2167.7	2057.0	2173.8	2261.4	2318.3	2370.6	2419.8	2429.0
30°	6072.5	5308.5	3040.9	1946.3	2012.4	2129.2	2196.9	2238.4	2301.4	2339.8	2347.5
32.5°	6055.6	5113.2	2521.3	1827.9	1975.5	2087.7	2127.7	2164.6	2163.1	2147.7	2158.4
35°	6061.8	4879.5	2100.0	1757.2	1943.2	2057.0	2090.8	2044.7	1912.5	1906.3	1900.2
37.5°	6094.1	4648.9	1794.1	1708.0	1926.3	2052.4	2070.8	1858.7	1741.8	1688.0	1674.2
40°	6177.1	4379.9	1592.7	1671.1	1924.8	2087.7	1980.1	1764.9	1540.4	1435.9	1428.2
42.5°	6287.8	4115.5	1469.7	1648.0	1943.2	2141.5	1943.2	1632.7	1388.2	1326.7	1317.5
45°	6452.3	3812.6	1402.1	1637.3	1970.9	2161.5	1930.9	1535.8	1326.7	1277.5	1277.5
47.5°	6638.3	3523.6	1365.2	1629.6	2006.2	2147.7	1821.8	1505.1	1297.5	1303.7	1332.9
50°	6822.8	3273.0	1337.5	1612.7	2037.0	2140.0	1777.2	1503.5	1305.2	1383.6	1435.9
52.5°	7036.4	3096.2	1303.7	1585.0	2037.0	2090.8	1763.3	1534.3	1326.7	1349.8	1372.9
55°	7294.7	3040.9	1260.6	1525.1	2000.1	1967.8	1755.7	1578.9	1342.1	1288.3	1297.5
57.5°	7636.0	3130.0	1219.1	1449.7	1915.5	1840.2	1752.6	1591.2	1306.7	1262.2	1252.9
60°	8032.6	3306.8	1206.8	1372.9	1800.2	1731.1	1734.1	1555.8	1257.6	1211.4	1219.1
62.5°	8310.9	3412.9	1199.1	1314.4	1674.2	1611.1	1689.5	1512.8	1236.0	1196.1	1203.7
65°	8310.9	3283.8	1128.4	1225.3	1511.2	1466.6	1635.7	1458.9	1208.4	1162.2	1154.5
67.5°	7995.8	2907.1	1020.8	1091.5	1331.3	1302.1	1560.4	1394.4	1166.8	1131.5	1113.0
70°	7174.8	2204.6	885.5	934.7	1103.8	1130.0	1463.6	1306.7	1097.7	1054.6	1026.9
71°	6813.5	1920.1	828.6	854.8	1016.2	1054.6	1417.4	1269.9	1066.9	1005.4	956.2
72.5°	6117.1	1617.3	742.5	753.3	868.6	937.8	1320.6	1199.1	1008.5	920.9	865.5
75°	4647.4	1180.7	598.0	591.9	642.6	744.1	1117.7	1068.5	884.0	765.6	733.3
77.5°	2007.8	642.6	447.4	452.0	436.6	564.2	879.4	917.8	757.9	622.6	593.4
80°	608.8	370.5	305.9	312.1	292.1	378.2	619.6	719.5	608.8	484.3	444.3
82.5°	312.1	221.4	209.1	206.0	186.0	213.7	375.1	492.0	435.1	302.9	267.5
85°	135.3	118.4	103.0	99.9	87.6	76.9	133.7	246.0	230.6	169.1	161.4
87.5°	33.8	30.7	20.0	18.4	10.8	1.5	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)