

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: P454187

Luminaire Tested: **GALN-SA5B-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454187
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-SA5B-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 26557 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

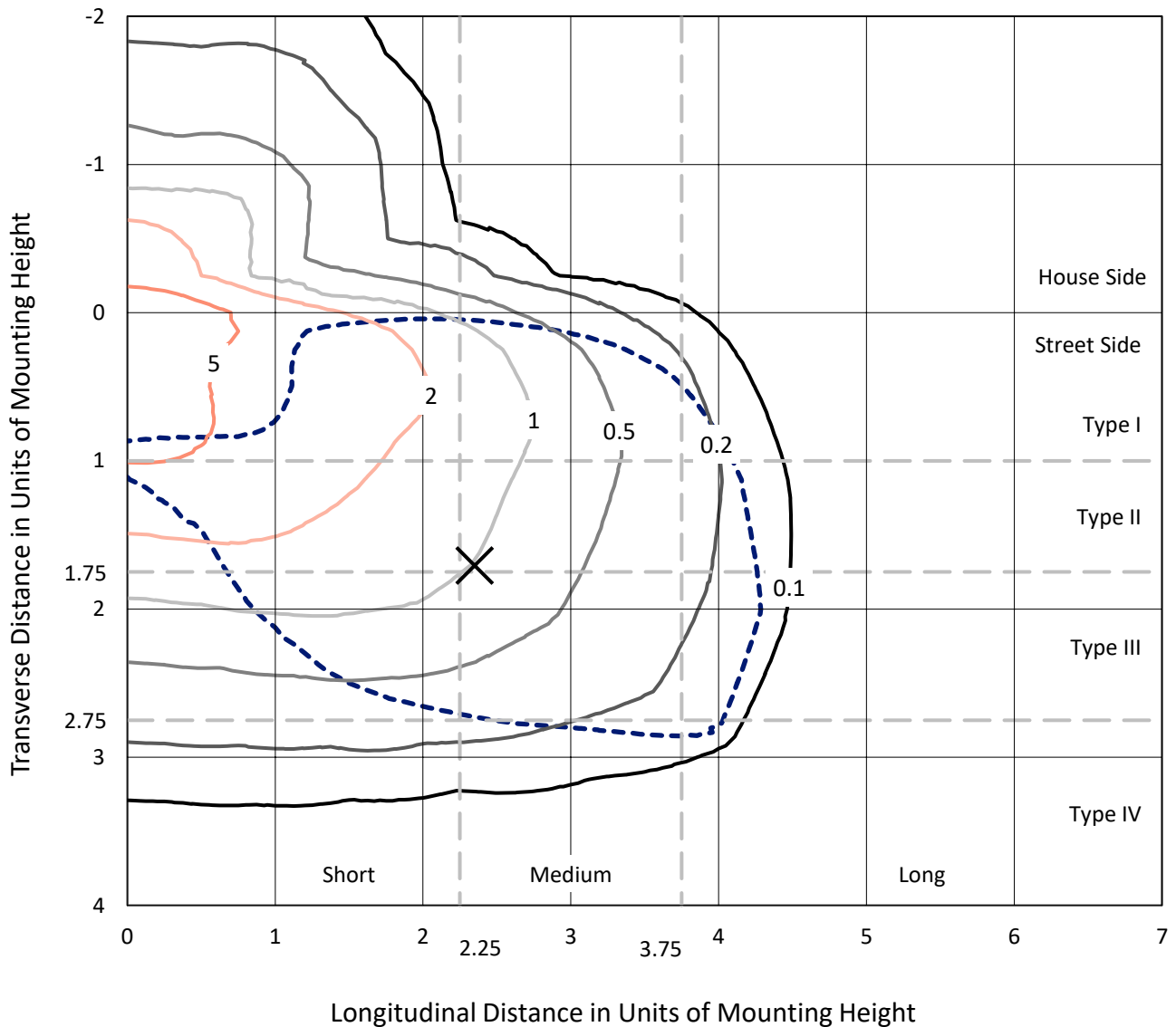
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

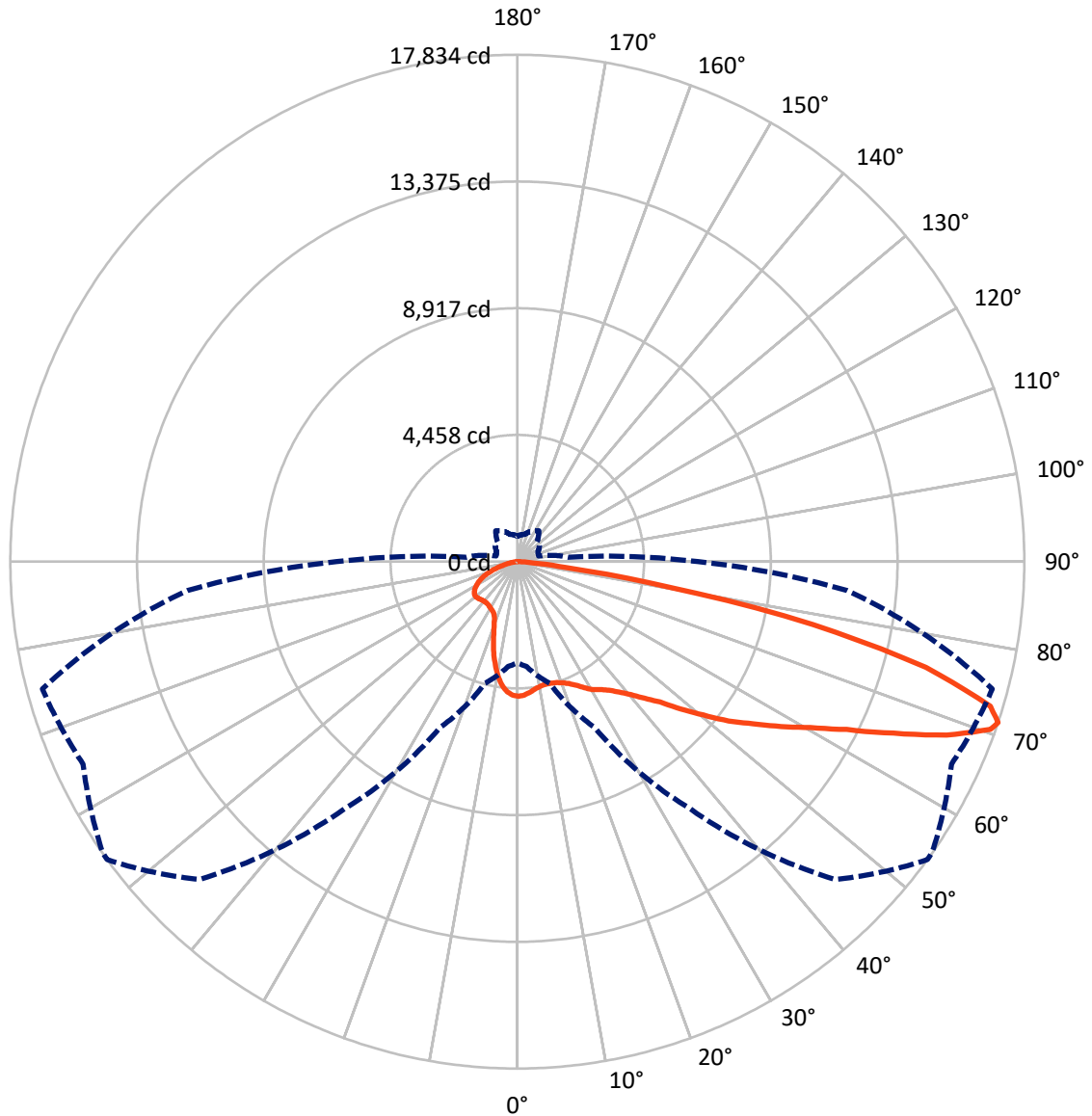
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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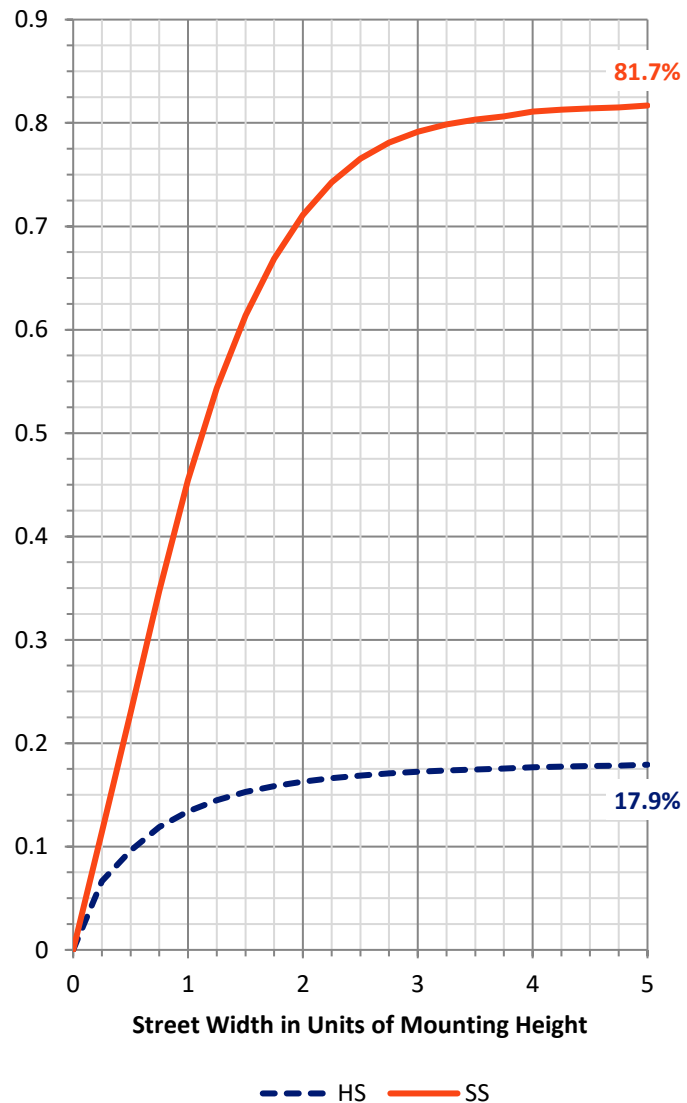
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4794.7	0.0	4794.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21762.3	0.0	21762.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	26557.0	0.0	26557.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.2	1.6
10°-20°	1114.9	4.2
20°-30°	1856.4	7.0
30°-40°	2745.0	10.3
40°-50°	3866.5	14.6
50°-60°	5177.3	19.5
60°-70°	6525.6	24.6
70°-80°	4457.0	16.8
80°-90°	392.0	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°	26557.0	100.0
0°-180°	26557.0	100.0



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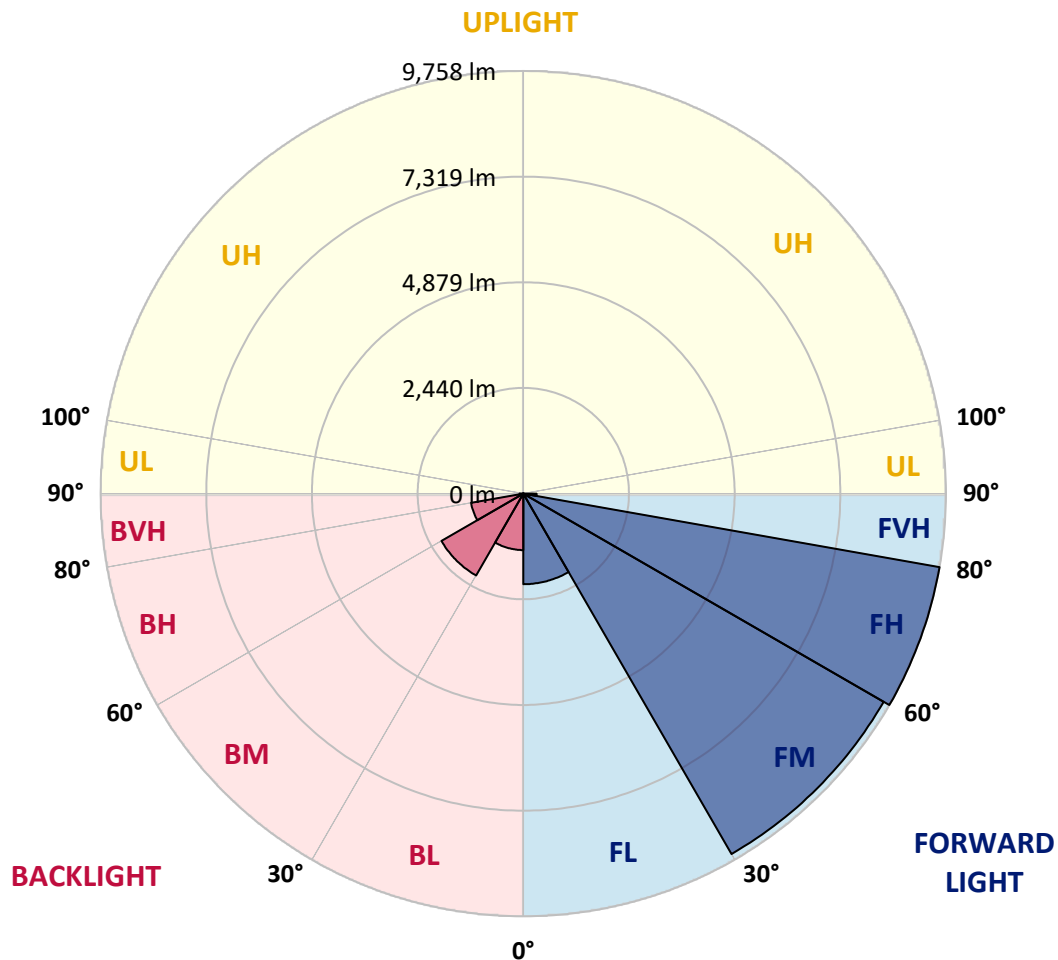
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2090.5	7.9			
FM	(30°-60°)	9607.4	36.2			
FH	(60°-80°)	9758.1	36.7			G4/12000
FVH	(80°-90°)	306.4	1.2			G3/500
BL	(0°-30°)	1303.1	4.9	B3/2500		
BM	(30°-60°)	2181.4	8.2	B2/2500		
BH	(60°-80°)	1224.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	85.6	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°	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2
2.5°	4577.5	4599.0	4604.8	4619.1	4649.2	4673.6	4698.0	4695.1	4729.6	4743.9	4756.8
5°	4373.8	4379.5	4401.1	4429.7	4482.8	4550.2	4616.2	4617.7	4702.3	4769.7	4802.7
7.5°	4224.6	4243.3	4257.6	4287.7	4343.7	4416.8	4521.6	4530.2	4680.8	4814.2	4884.5
10°	4127.1	4148.6	4164.4	4201.7	4257.6	4339.4	4452.7	4468.5	4665.0	4884.5	5007.8
12.5°	4038.1	4059.6	4074.0	4122.8	4195.9	4296.3	4424.0	4442.7	4670.7	4966.2	5142.7
15°	4092.6	4109.8	4104.1	4118.5	4167.2	4282.0	4435.5	4454.1	4692.3	5045.1	5276.1
17.5°	4335.1	4349.4	4302.1	4247.6	4224.6	4309.2	4471.3	4491.4	4735.3	5126.9	5412.4
20°	4692.3	4731.0	4627.7	4505.8	4395.3	4406.8	4545.9	4567.5	4795.5	5208.7	5551.5
22.5°	5157.0	5185.7	5059.5	4858.7	4655.0	4550.2	4657.8	4670.7	4885.9	5314.8	5703.6
25°	5703.6	5720.8	5545.8	5287.6	4993.5	4795.5	4811.3	4834.3	5035.1	5435.3	5838.4
27.5°	6234.3	6288.9	6086.6	5771.0	5383.7	5053.8	5022.2	5036.5	5197.2	5502.8	5931.7
30°	6864.1	6859.8	6646.1	6280.3	5783.9	5334.9	5221.6	5218.7	5284.7	5535.7	5999.1
32.5°	7366.2	7425.0	7215.5	6816.8	6241.5	5626.1	5359.3	5353.6	5352.1	5593.1	6099.5
35°	7937.1	7945.7	7753.5	7351.8	6736.4	5991.9	5551.5	5522.8	5489.8	5716.5	6235.8
37.5°	8447.8	8488.0	8311.5	7861.1	7222.7	6372.1	5815.5	5796.8	5696.4	5930.2	6453.8
40°	8846.6	8876.7	8770.5	8341.6	7701.8	6782.3	6151.1	6116.7	5994.8	6280.3	6745.0
42.5°	8977.1	9038.8	9080.4	8869.5	8252.7	7268.6	6564.3	6521.2	6428.0	6811.0	7080.7
45°	8987.2	9084.7	9304.2	9314.2	8806.4	7851.0	7046.3	7016.2	7009.0	7491.0	7552.7
47.5°	8911.1	9010.1	9378.8	9578.2	9299.9	8439.2	7742.0	7694.7	7699.0	8331.6	8082.0
50°	8727.5	8845.1	9292.7	9747.4	9685.8	9050.3	8476.5	8460.7	8549.6	9291.3	8631.4
52.5°	8381.8	8523.8	9203.8	9853.6	9972.7	9576.7	9311.4	9266.9	9492.1	10332.7	9232.5
55°	7425.0	7638.7	8878.1	9912.4	10245.2	10080.2	10063.0	10143.4	10441.7	11468.8	9893.8
57.5°	6925.8	7086.4	8170.9	9922.5	10589.5	10665.5	10941.0	10961.0	11483.2	12675.3	10641.1
60°	6653.2	6795.2	7783.6	9856.5	11070.1	11390.0	11838.9	11910.7	12500.3	13982.1	11415.8
62.5°	6415.1	6537.0	7551.2	9628.4	11612.3	12464.4	13002.3	13036.8	13655.0	15425.2	12180.4
65°	5854.2	5993.4	7083.6	9400.3	12079.9	13807.1	14545.9	14505.7	14884.4	16670.4	12659.5
67.5°	5098.2	5274.7	6210.0	8612.8	12310.9	15274.6	16284.5	16234.3	16098.0	17486.6	12797.2
70°	4132.8	4227.5	5092.5	7251.4	11388.5	16044.9	17657.3	17604.2	16849.7	17594.2	12145.9
71°	3556.1	3703.9	4434.0	6440.9	10621.1	15809.7	17833.7	17819.4	16851.1	17297.2	11655.3
72.5°	2775.8	2866.1	3511.7	4990.6	9027.3	14472.7	17397.6	17452.2	16485.3	16472.4	10644.0
75°	1755.8	1796.0	2203.4	2937.9	4953.3	10249.5	14851.4	14999.2	14637.7	13482.9	7915.6
77.5°	1019.9	1071.6	1319.7	1731.4	2140.3	5563.0	10626.8	10787.5	10170.6	7423.6	3240.5
80°	593.9	651.3	869.3	1005.6	982.6	2064.2	5410.9	5684.9	4403.9	1874.9	909.5
82.5°	329.9	368.7	611.1	612.5	523.6	674.2	1702.8	1781.7	1256.6	756.0	371.5
85°	239.6	271.1	394.5	357.2	251.0	289.8	592.4	621.1	507.8	318.5	120.5
87.5°	84.6	120.5	216.6	172.1	68.9	60.2	170.7	139.1	129.1	88.9	27.3
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°	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2	4738.2
2.5°	4764.0	4766.9	4752.5	4726.7	4700.9	4667.9	4630.6	4601.9	4589.0	4587.5	4586.1
5°	4815.6	4822.8	4768.3	4688.0	4599.0	4490.0	4396.8	4290.6	4263.3	4220.3	4233.2
7.5°	4898.8	4894.5	4786.9	4616.2	4408.2	4177.3	3982.2	3868.9	3751.2	3718.2	3719.7
10°	5017.9	4990.6	4786.9	4469.9	4122.8	3779.9	3507.4	3335.2	3242.0	3164.5	3135.8
12.5°	5144.1	5075.3	4741.0	4264.8	3755.5	3335.2	3042.6	2810.2	2749.9	2686.8	2688.3
15°	5264.6	5149.9	4650.7	3976.4	3359.6	2860.4	2576.4	2437.2	2418.6	2425.7	2424.3
17.5°	5373.6	5202.9	4512.9	3655.1	2897.7	2453.0	2302.4	2312.4	2362.6	2398.5	2402.8
20°	5484.1	5234.5	4307.8	3224.8	2461.6	2206.3	2212.0	2290.9	2366.9	2415.7	2422.9
22.5°	5588.8	5248.8	4066.8	2808.8	2146.0	2101.5	2186.2	2270.8	2345.4	2392.8	2399.9
25°	5657.7	5215.9	3725.4	2374.1	1991.1	2064.2	2153.2	2224.9	2288.0	2336.8	2348.3
27.5°	5676.3	5109.7	3302.2	2022.6	1919.4	2028.4	2110.2	2163.2	2212.0	2257.9	2266.5
30°	5666.3	4953.3	2837.4	1816.1	1877.8	1986.8	2049.9	2088.6	2147.5	2183.3	2190.5
32.5°	5650.5	4771.2	2352.6	1705.6	1843.3	1948.1	1985.4	2019.8	2018.3	2004.0	2014.0
35°	5656.2	4553.1	1959.5	1639.6	1813.2	1919.4	1950.9	1907.9	1784.5	1778.8	1773.0
37.5°	5686.4	4337.9	1674.1	1593.7	1797.4	1915.1	1932.3	1734.3	1625.3	1575.1	1562.2
40°	5763.8	4086.9	1486.1	1559.3	1796.0	1948.1	1847.6	1646.8	1437.4	1339.8	1332.7
42.5°	5867.1	3840.2	1371.4	1537.8	1813.2	1998.3	1813.2	1523.4	1295.4	1238.0	1229.4
45°	6020.6	3557.6	1308.3	1527.7	1839.0	2016.9	1801.7	1433.1	1238.0	1192.1	1192.1
47.5°	6194.2	3287.9	1273.8	1520.6	1872.0	2004.0	1699.9	1404.4	1210.7	1216.5	1243.7
50°	6366.3	3054.1	1248.0	1504.8	1900.7	1996.8	1658.3	1402.9	1217.9	1291.1	1339.8
52.5°	6565.7	2889.1	1216.5	1479.0	1900.7	1950.9	1645.4	1431.6	1238.0	1259.5	1281.0
55°	6806.7	2837.4	1176.3	1423.0	1866.3	1836.2	1638.2	1473.2	1252.3	1202.1	1210.7
57.5°	7125.2	2920.6	1137.6	1352.7	1787.4	1717.1	1635.3	1484.7	1219.3	1177.7	1169.1
60°	7495.3	3085.6	1126.1	1281.0	1679.8	1615.2	1618.1	1451.7	1173.4	1130.4	1137.6
62.5°	7754.9	3184.6	1118.9	1226.5	1562.2	1503.4	1576.5	1411.6	1153.3	1116.0	1123.2
65°	7754.9	3064.1	1052.9	1143.3	1410.1	1368.5	1526.3	1361.3	1127.5	1084.5	1077.3
67.5°	7460.8	2712.6	952.5	1018.5	1242.3	1215.0	1456.0	1301.1	1088.8	1055.8	1038.6
70°	6694.8	2057.1	826.3	872.2	1030.0	1054.4	1365.6	1219.3	1024.2	984.1	958.2
71°	6357.7	1791.7	773.2	797.6	948.2	984.1	1322.6	1184.9	995.5	938.2	892.3
72.5°	5707.9	1509.1	692.9	702.9	810.5	875.0	1232.2	1118.9	941.0	859.3	807.6
75°	4336.5	1101.7	558.0	552.3	599.6	694.3	1042.9	997.0	824.8	714.4	684.3
77.5°	1873.5	599.6	417.4	421.7	407.4	526.5	820.5	856.4	707.2	581.0	553.7
80°	568.1	345.7	285.5	291.2	272.6	352.9	578.1	671.3	568.1	451.9	414.6
82.5°	291.2	206.6	195.1	192.2	173.6	199.4	350.0	459.0	406.0	282.6	249.6
85°	126.2	110.5	96.1	93.2	81.8	71.7	124.8	229.5	215.2	157.8	150.6
87.5°	31.6	28.7	18.6	17.2	10.0	1.4	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)