

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: P453317

Luminaire Tested: **GALN-SA4B-750-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453317
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-SA4B-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 23035 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

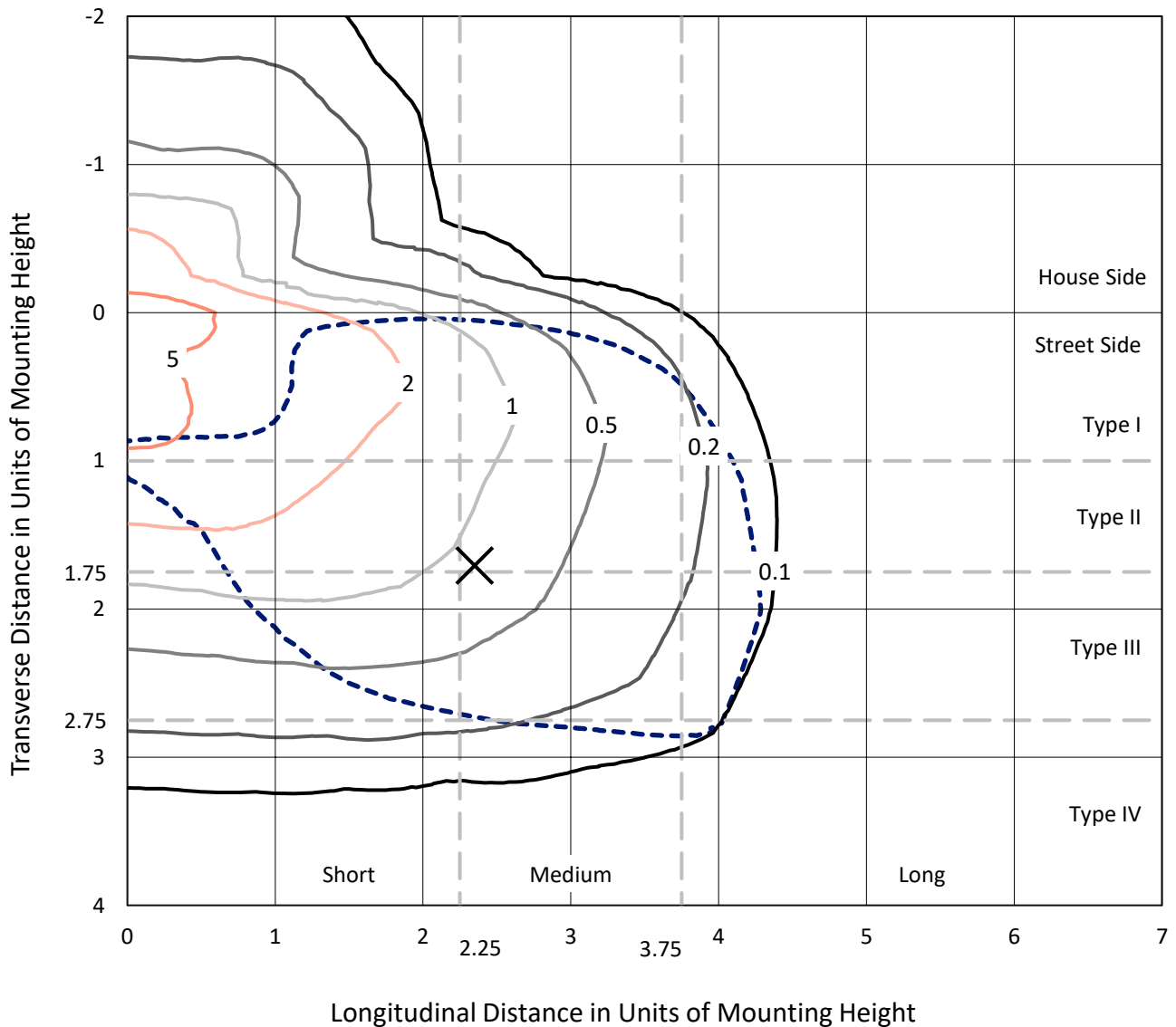
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

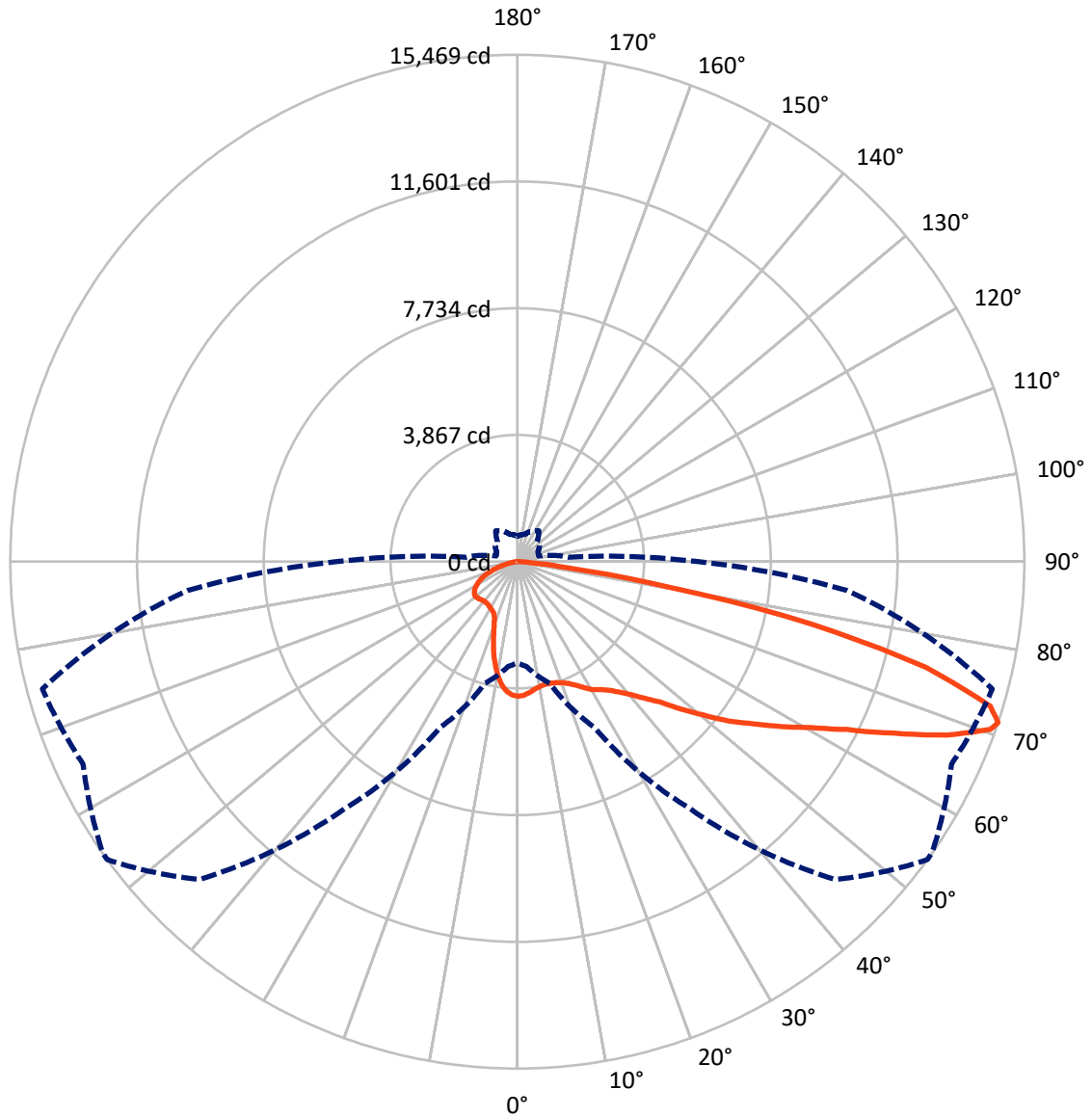
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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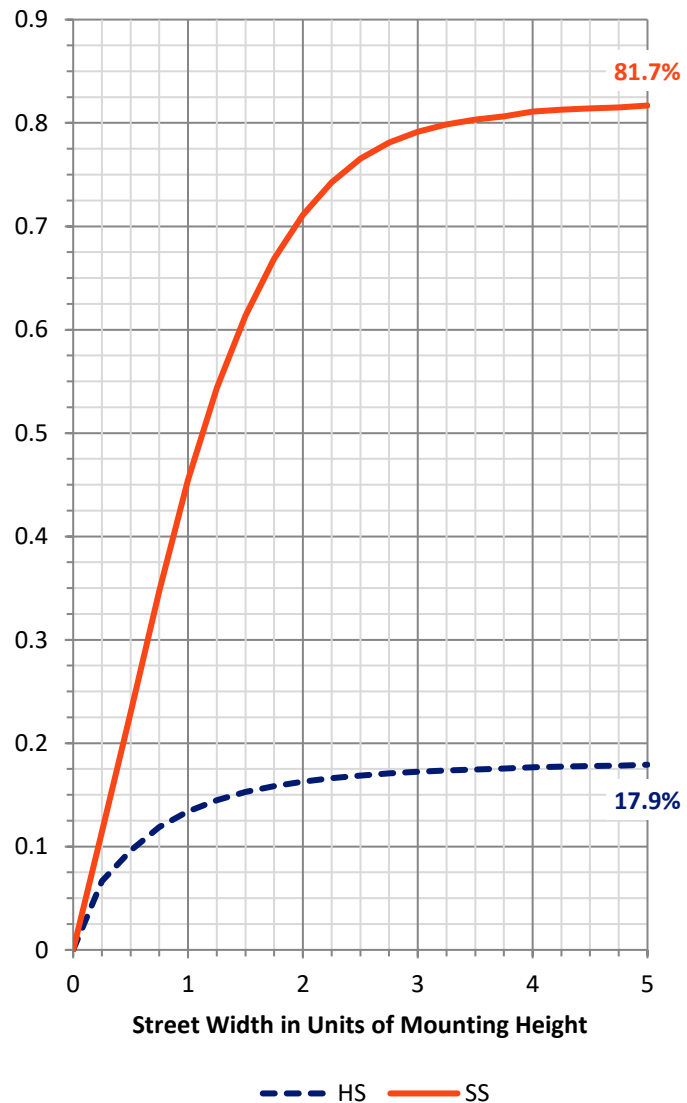
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4158.8	0.0	4158.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18876.2	0.0	18876.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	23035.0	0.0	23035.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.2	1.6
10°-20°	967.1	4.2
20°-30°	1610.2	7.0
30°-40°	2381.0	10.3
40°-50°	3353.7	14.6
50°-60°	4490.7	19.5
60°-70°	5660.2	24.6
70°-80°	3865.9	16.8
80°-90°	340.0	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°	23035.0	100.0
0°-180°	23035.0	100.0



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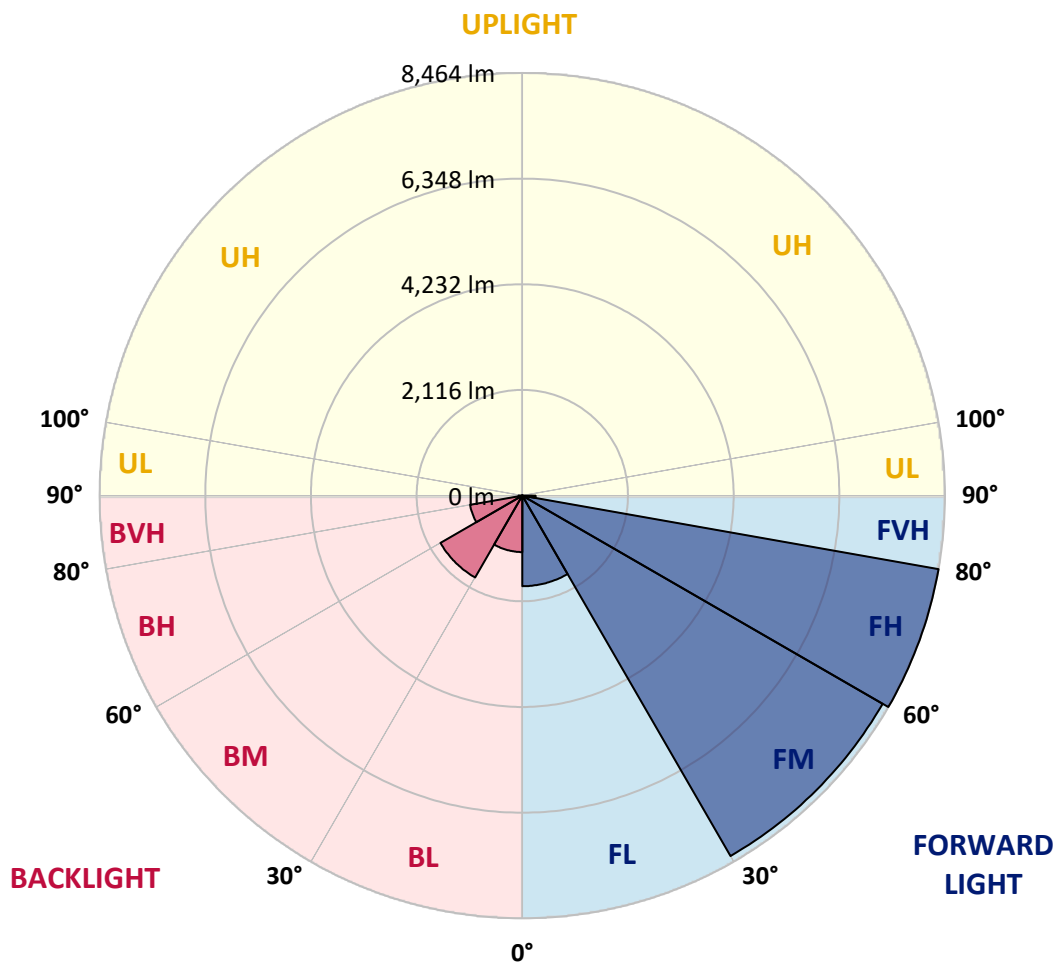
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1813.2	7.9			
FM	(30°-60°)	8333.2	36.2			
FH	(60°-80°)	8464.0	36.7			G4/12000
FVH	(80°-90°)	265.7	1.2			G3/500
BL	(0°-30°)	1130.3	4.9	B3/2500		
BM	(30°-60°)	1892.1	8.2	B2/2500		
BH	(60°-80°)	1062.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	74.2	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°	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8
2.5°	3970.4	3989.1	3994.1	4006.5	4032.6	4053.8	4074.9	4072.5	4102.3	4114.8	4126.0
5°	3793.7	3798.7	3817.4	3842.3	3888.3	3946.8	4004.0	4005.3	4078.7	4137.2	4165.8
7.5°	3664.3	3680.5	3693.0	3719.1	3767.6	3831.1	3921.9	3929.4	4060.0	4175.7	4236.7
10°	3579.7	3598.4	3612.1	3644.4	3693.0	3763.9	3862.2	3875.9	4046.3	4236.7	4343.7
12.5°	3502.6	3521.3	3533.7	3576.0	3639.5	3726.6	3837.3	3853.5	4051.3	4307.6	4460.7
15°	3549.9	3564.8	3559.8	3572.3	3614.6	3714.1	3847.2	3863.4	4070.0	4376.1	4576.4
17.5°	3760.1	3772.6	3731.5	3684.2	3664.3	3737.8	3878.4	3895.8	4107.3	4447.0	4694.6
20°	4070.0	4103.6	4014.0	3908.2	3812.4	3822.4	3943.1	3961.7	4159.6	4517.9	4815.3
22.5°	4473.1	4498.0	4388.5	4214.3	4037.6	3946.8	4040.1	4051.3	4237.9	4610.0	4947.2
25°	4947.2	4962.1	4810.3	4586.3	4331.3	4159.6	4173.2	4193.2	4367.3	4714.5	5064.1
27.5°	5407.5	5454.8	5279.4	5005.7	4669.7	4383.5	4356.1	4368.6	4507.9	4773.0	5145.0
30°	5953.8	5950.0	5764.6	5447.4	5016.8	4627.4	4529.1	4526.6	4583.8	4801.6	5203.5
32.5°	6389.3	6440.3	6258.6	5912.7	5413.8	4880.0	4648.5	4643.6	4642.3	4851.4	5290.6
35°	6884.5	6891.9	6725.2	6376.8	5843.0	5197.3	4815.3	4790.4	4761.8	4958.4	5408.8
37.5°	7327.4	7362.3	7209.2	6818.5	6264.8	5527.0	5044.2	5028.0	4940.9	5143.8	5597.9
40°	7673.3	7699.5	7607.4	7235.4	6680.4	5882.9	5335.4	5305.5	5199.8	5447.4	5850.5
42.5°	7786.6	7840.1	7876.2	7693.2	7158.2	6304.7	5693.7	5656.4	5575.5	5907.7	6141.7
45°	7795.3	7879.9	8070.3	8079.0	7638.5	6809.8	6111.8	6085.7	6079.4	6497.5	6551.0
47.5°	7729.3	7815.2	8135.0	8307.9	8066.5	7320.0	6715.3	6674.2	6677.9	7226.7	7010.2
50°	7570.1	7672.1	8060.3	8454.7	8401.2	7850.0	7352.3	7338.6	7415.8	8059.1	7486.7
52.5°	7270.2	7393.4	7983.2	8546.8	8650.1	8306.7	8076.5	8037.9	8233.3	8962.4	8008.0
55°	6440.3	6625.7	7700.7	8597.8	8886.5	8743.4	8728.5	8798.2	9057.0	9947.8	8581.6
57.5°	6007.3	6146.6	7087.3	8606.5	9185.1	9251.1	9490.0	9507.4	9960.3	10994.3	9229.9
60°	5770.9	5894.1	6751.3	8549.3	9601.9	9879.4	10268.9	10331.1	10842.5	12127.8	9901.8
62.5°	5564.3	5670.1	6549.8	8351.5	10072.3	10811.4	11278.0	11307.8	11844.1	13379.5	10565.0
65°	5077.8	5198.5	6144.1	8153.6	10477.9	11976.0	12616.8	12581.9	12910.4	14459.5	10980.6
67.5°	4422.1	4575.1	5386.4	7470.5	10678.2	13248.9	14124.8	14081.3	13963.1	15167.5	11100.0
70°	3584.7	3666.8	4417.1	6289.7	9878.2	13917.0	15315.6	15269.5	14615.1	15260.8	10535.1
71°	3084.5	3212.7	3846.0	5586.7	9212.5	13713.0	15468.6	15456.2	14616.3	15003.3	10109.6
72.5°	2407.6	2486.0	3045.9	4328.8	7830.1	12553.3	15090.4	15137.6	14299.0	14287.8	9232.4
75°	1523.0	1557.8	1911.2	2548.2	4296.4	8890.2	12881.8	13010.0	12696.4	11694.8	6865.8
77.5°	884.7	929.5	1144.7	1501.8	1856.4	4825.2	9217.5	9356.8	8821.8	6439.0	2810.8
80°	515.1	564.9	754.0	872.2	852.3	1790.5	4693.3	4931.0	3819.9	1626.2	788.9
82.5°	286.2	319.8	530.1	531.3	454.2	584.8	1476.9	1545.4	1090.0	655.7	322.3
85°	207.8	235.2	342.2	309.8	217.7	251.3	513.9	538.8	440.5	276.2	104.5
87.5°	73.4	104.5	187.9	149.3	59.7	52.3	148.1	120.7	112.0	77.1	23.6
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°	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8
2.5°	4132.2	4134.7	4122.2	4099.8	4077.4	4048.8	4016.5	3991.6	3980.4	3979.1	3977.9
5°	4177.0	4183.2	4135.9	4066.2	3989.1	3894.5	3813.7	3721.6	3697.9	3660.6	3671.8
7.5°	4249.1	4245.4	4152.1	4004.0	3823.6	3623.3	3454.1	3355.8	3253.7	3225.1	3226.4
10°	4352.4	4328.8	4152.1	3877.1	3576.0	3278.6	3042.2	2892.9	2812.0	2744.8	2719.9
12.5°	4461.9	4402.2	4112.3	3699.2	3257.5	2892.9	2639.1	2437.5	2385.2	2330.5	2331.7
15°	4566.4	4466.9	4033.9	3449.1	2914.1	2481.1	2234.7	2114.0	2097.8	2104.0	2102.8
17.5°	4661.0	4512.9	3914.4	3170.4	2513.4	2127.7	1997.0	2005.7	2049.3	2080.4	2084.1
20°	4756.8	4540.3	3736.5	2797.1	2135.1	1913.7	1918.6	1987.1	2053.0	2095.3	2101.6
22.5°	4847.6	4552.7	3527.5	2436.3	1861.4	1822.8	1896.2	1969.7	2034.4	2075.4	2081.6
25°	4907.4	4524.1	3231.3	2059.2	1727.0	1790.5	1867.6	1929.8	1984.6	2026.9	2036.9
27.5°	4923.5	4432.0	2864.3	1754.4	1664.8	1759.4	1830.3	1876.3	1918.6	1958.5	1965.9
30°	4914.8	4296.4	2461.1	1575.2	1628.7	1723.3	1778.0	1811.6	1862.7	1893.8	1900.0
32.5°	4901.1	4138.4	2040.6	1479.4	1598.9	1689.7	1722.1	1751.9	1750.7	1738.2	1746.9
35°	4906.1	3949.3	1699.7	1422.2	1572.7	1664.8	1692.2	1654.9	1547.9	1542.9	1537.9
37.5°	4932.2	3762.6	1452.0	1382.4	1559.1	1661.1	1676.0	1504.3	1409.7	1366.2	1355.0
40°	4999.4	3544.9	1289.1	1352.5	1557.8	1689.7	1602.6	1428.4	1246.7	1162.1	1155.9
42.5°	5089.0	3330.9	1189.5	1333.8	1572.7	1733.3	1572.7	1321.4	1123.6	1073.8	1066.3
45°	5222.2	3085.8	1134.8	1325.1	1595.1	1749.4	1562.8	1243.0	1073.8	1034.0	1034.0
47.5°	5372.7	2851.8	1104.9	1318.9	1623.8	1738.2	1474.4	1218.1	1050.2	1055.1	1078.8
50°	5522.0	2649.0	1082.5	1305.2	1648.6	1732.0	1438.4	1216.9	1056.4	1119.8	1162.1
52.5°	5695.0	2505.9	1055.1	1282.8	1648.6	1692.2	1427.2	1241.8	1073.8	1092.5	1111.1
55°	5904.0	2461.1	1020.3	1234.3	1618.8	1592.7	1420.9	1277.9	1086.2	1042.7	1050.2
57.5°	6180.2	2533.3	986.7	1173.3	1550.3	1489.4	1418.5	1287.8	1057.6	1021.5	1014.1
60°	6501.2	2676.4	976.7	1111.1	1457.0	1401.0	1403.5	1259.2	1017.8	980.5	986.7
62.5°	6726.5	2762.3	970.5	1063.8	1355.0	1304.0	1367.4	1224.4	1000.4	968.0	974.3
65°	6726.5	2657.7	913.3	991.7	1223.1	1187.0	1323.9	1180.8	978.0	940.7	934.4
67.5°	6471.4	2352.9	826.2	883.4	1077.5	1053.9	1262.9	1128.5	944.4	915.8	900.8
70°	5807.0	1784.3	716.7	756.5	893.4	914.5	1184.5	1057.6	888.4	853.6	831.2
71°	5514.6	1554.1	670.7	691.8	822.5	853.6	1147.2	1027.8	863.5	813.7	773.9
72.5°	4950.9	1309.0	601.0	609.7	703.0	759.0	1068.8	970.5	816.2	745.3	700.5
75°	3761.4	955.6	484.0	479.0	520.1	602.2	904.6	864.8	715.4	619.6	593.5
77.5°	1625.0	520.1	362.1	365.8	353.4	456.6	711.7	742.8	613.4	503.9	480.3
80°	492.7	299.9	247.6	252.6	236.4	306.1	501.4	582.3	492.7	391.9	359.6
82.5°	252.6	179.2	169.2	166.7	150.6	173.0	303.6	398.2	352.1	245.1	216.5
85°	109.5	95.8	83.4	80.9	70.9	62.2	108.3	199.1	186.6	136.9	130.6
87.5°	27.4	24.9	16.2	14.9	8.7	1.2	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)