

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: P527790

Luminaire Tested: **GALN-SA2D-750-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-750-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13185 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

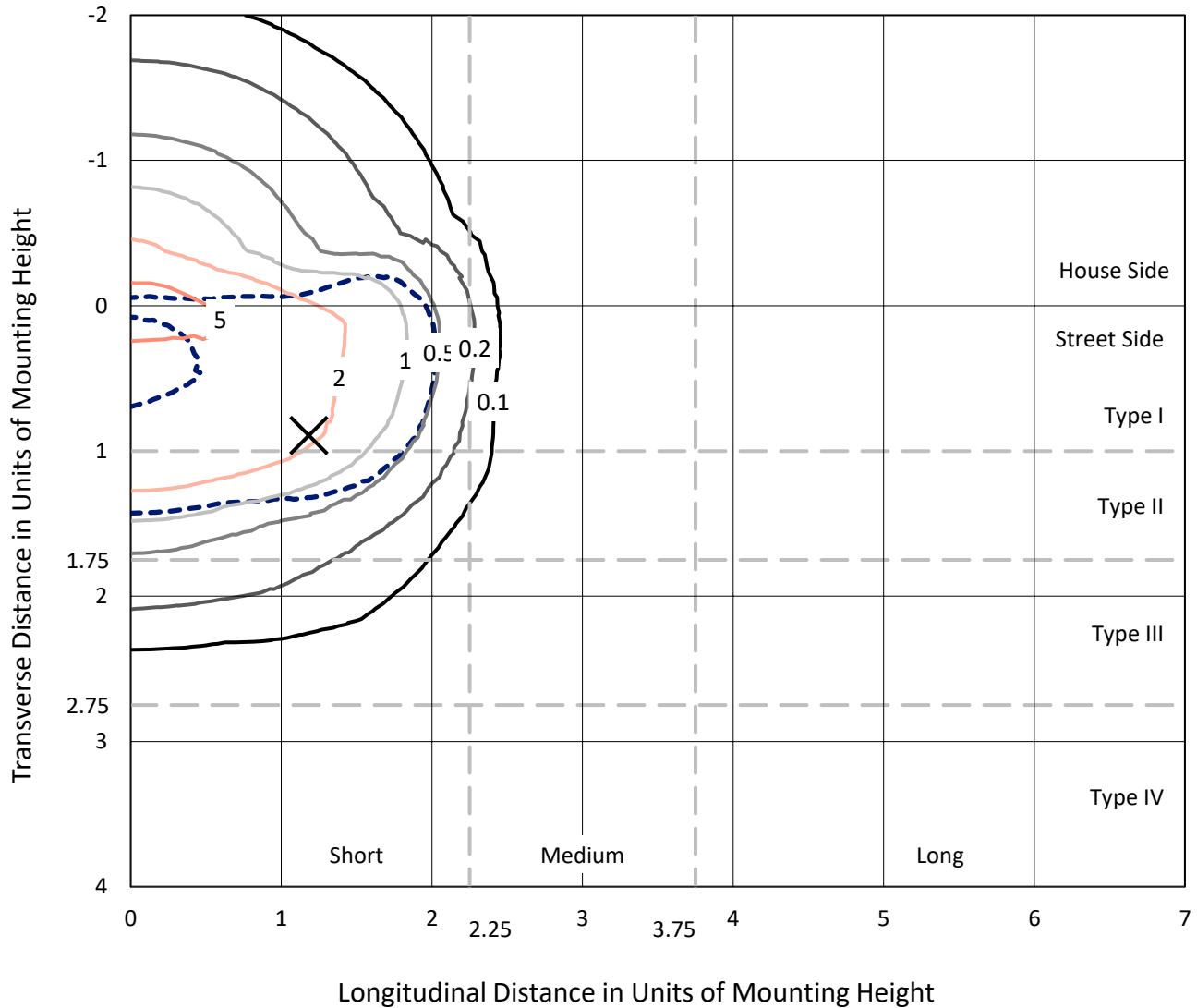
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

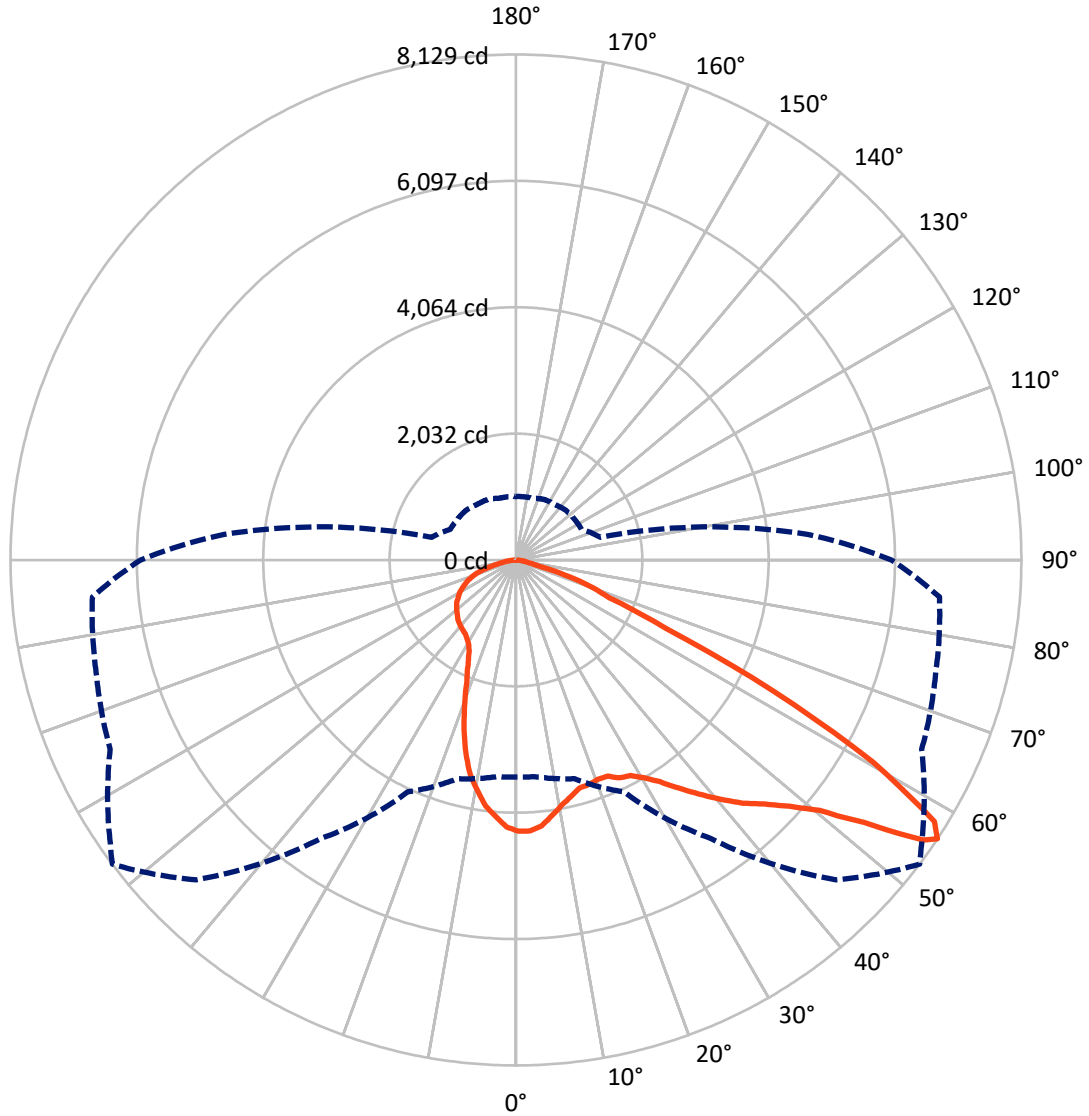
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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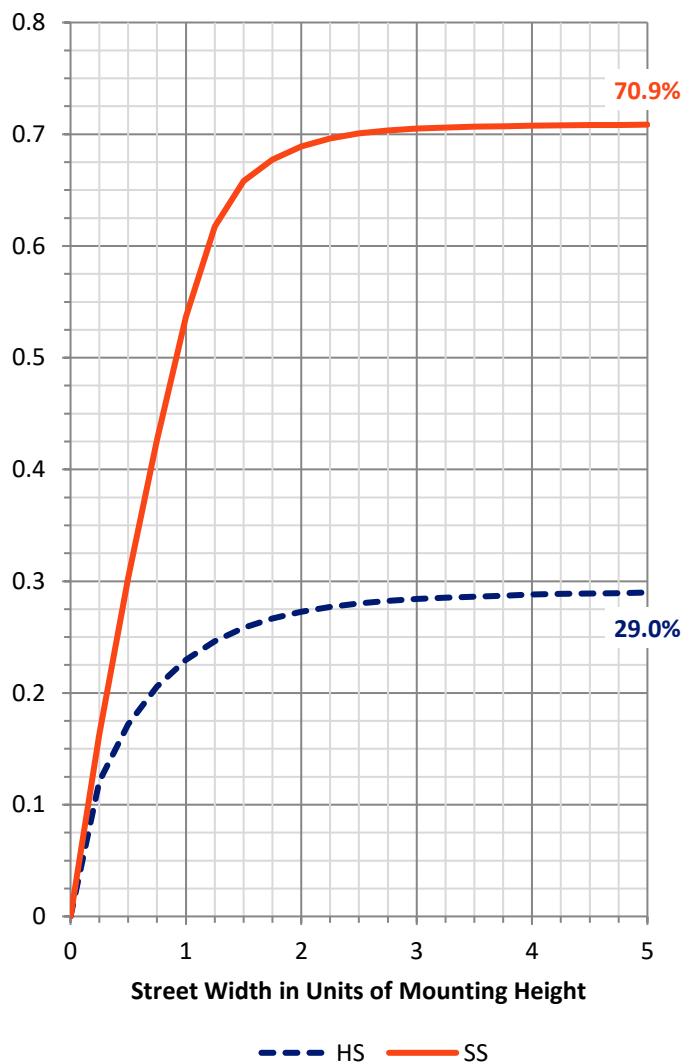
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3847.7	0.0	3847.7
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	9337.3	0.0	9337.3
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	13185.0	0.0	13185.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.2	2.9
10°-20°	964.5	7.3
20°-30°	1422.2	10.8
30°-40°	2032.1	15.4
40°-50°	2796.9	21.2
50°-60°	3305.2	25.1
60°-70°	1761.4	13.4
70°-80°	446.9	3.4
80°-90°	69.7	0.5
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°	13185.0	100.0
0°-180°	13185.0	100.0



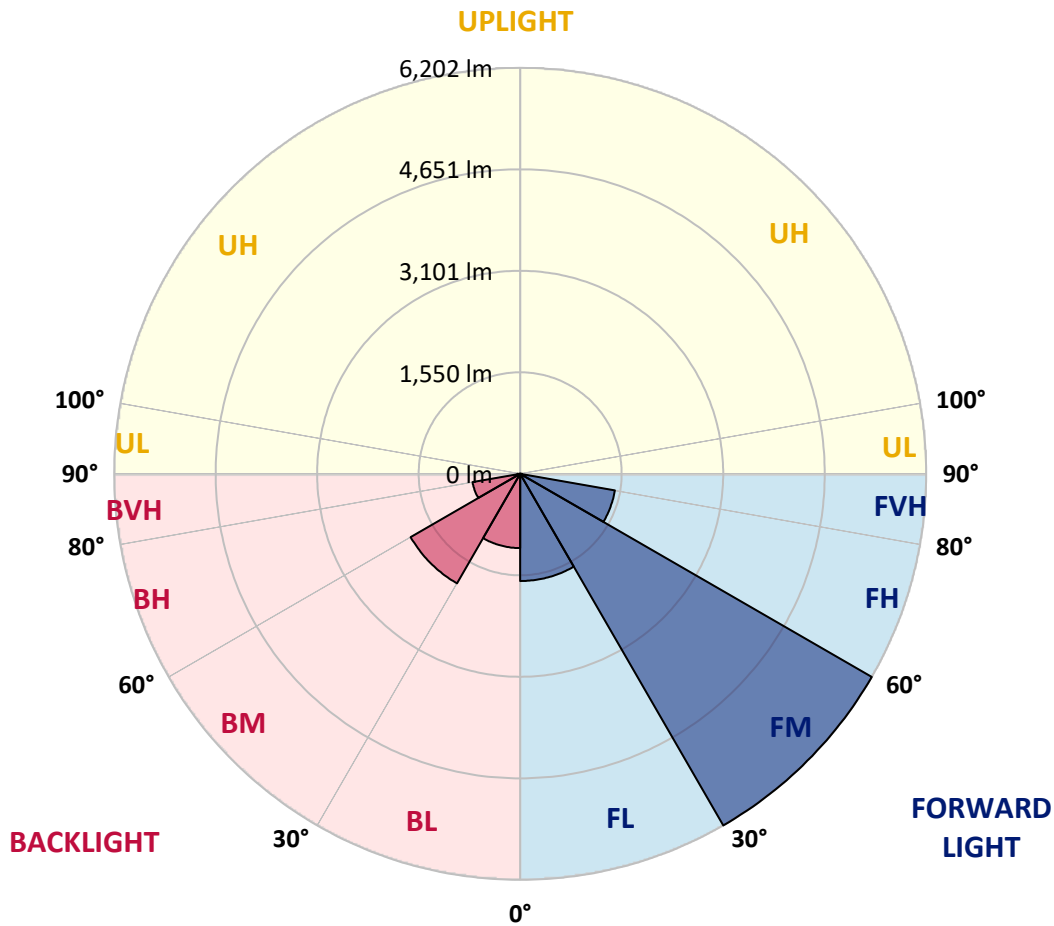
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1638.0	12.4			
FM (30°-60°)	6202.0	47.0			
FH (60°-80°)	1469.3	11.1			G1/1800
FVH (80°-90°)	28.0	0.2			G1/100
BL (0°-30°)	1134.8	8.6	B3/2500		
BM (30°-60°)	1932.2	14.7	B2/2500		
BH (60°-80°)	739.0	5.6	B2/1000		G2/1000
BVH (80°-90°)	41.7	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4362.1	4362.1	4362.1	4362.1	4362.1	4362.1	4362.1	4362.1	4362.1	4362.1	4362.1
2.5°	4308.0	4270.8	4292.8	4284.3	4353.7	4374.0	4363.8	4372.3	4411.2	4392.6	4353.7
5°	4025.5	4078.0	4088.1	4113.5	4154.1	4233.6	4296.2	4313.1	4331.7	4417.9	4409.5
7.5°	3768.4	3804.0	3785.4	3859.8	3947.7	4076.3	4152.4	4165.9	4336.7	4384.1	4419.6
10°	3606.1	3570.5	3655.1	3675.4	3775.2	3922.4	4013.7	4069.5	4225.1	4412.9	4434.8
12.5°	3455.5	3443.7	3494.4	3551.9	3663.6	3815.8	3908.8	3930.8	4171.0	4368.9	4472.1
15°	3343.9	3330.4	3381.1	3423.4	3553.6	3688.9	3807.3	3869.9	4111.8	4343.5	4439.9
17.5°	3255.9	3254.3	3283.0	3359.1	3492.7	3606.1	3797.2	3800.6	4081.3	4382.4	4467.0
20°	3250.9	3249.2	3254.3	3338.8	3460.6	3599.3	3765.1	3795.5	4081.3	4355.4	4468.7
22.5°	3293.2	3266.1	3296.5	3350.7	3438.6	3611.1	3776.9	3844.5	4179.4	4489.0	4544.8
25°	3360.8	3367.6	3384.5	3403.1	3453.8	3638.2	3881.8	3937.6	4294.5	4604.0	4649.7
27.5°	3484.3	3480.9	3487.7	3497.8	3541.8	3663.6	3924.0	4067.8	4534.6	4808.6	4763.0
30°	3665.3	3653.4	3680.5	3716.0	3675.4	3744.8	4064.4	4172.7	4757.9	5015.0	4889.8
32.5°	3829.3	3873.3	3924.0	3939.3	3890.2	3903.7	4250.5	4360.4	4944.0	5268.7	5045.4
35°	4034.0	4069.5	4137.2	4184.5	4176.1	4135.5	4504.2	4649.7	5212.9	5454.8	5209.5
37.5°	4233.6	4275.9	4387.5	4527.9	4450.1	4431.5	4774.8	4894.9	5295.8	5554.6	5329.6
40°	4554.9	4553.2	4746.1	4818.8	4888.1	4856.0	5055.6	5096.2	5339.7	5532.6	5333.0
42.5°	4932.1	4908.4	5104.6	5218.0	5307.6	5311.0	5348.2	5334.7	5360.0	5420.9	5297.5
45°	5290.7	5341.4	5539.3	5742.3	5831.9	5842.1	5595.1	5569.8	5395.6	5388.8	5229.8
47.5°	5728.8	5740.6	5903.0	6170.2	6378.3	6307.2	5914.8	5859.0	5551.2	5603.6	5343.1
50°	5754.1	5842.1	5987.6	6302.2	6941.5	6922.9	6329.2	6224.3	5801.5	5908.1	5659.4
52.5°	5223.0	5202.7	5375.3	5889.5	6899.2	7535.2	7015.9	6765.6	6339.4	6258.2	6171.9
55°	3979.9	4027.2	4179.4	4698.7	5990.9	7543.6	7951.3	7746.6	6914.4	6775.7	6676.0
56°	3491.0	3497.8	3641.6	4115.2	5466.6	7274.7	8128.9	7963.1	7200.3	6988.9	6836.6
57.5°	2894.0	2855.1	2929.5	3188.3	4614.1	6706.4	7934.4	8096.7	7535.2	7218.9	7007.5
60°	2278.3	2269.9	2239.4	2286.8	2916.0	5052.2	6604.9	6970.3	7501.4	7002.4	6711.5
62.5°	1860.5	1818.3	1879.1	1946.8	2026.3	3134.2	4641.2	4856.0	5955.4	5590.1	5042.1
65°	1442.8	1422.5	1498.6	1718.5	1765.8	1990.8	2643.7	2809.4	3516.4	3453.8	3041.1
67.5°	992.9	996.2	1062.2	1397.1	1637.3	1617.0	1618.7	1704.9	1835.2	1363.3	1187.4
70°	629.2	627.5	663.0	899.8	1317.6	1331.1	1263.5	1238.1	1173.8	710.4	752.7
72.5°	404.2	392.4	411.0	497.3	681.6	788.2	811.9	827.1	679.9	558.2	605.5
75°	228.3	216.5	209.7	231.7	268.9	311.2	341.7	351.8	394.1	422.8	448.2
77.5°	69.3	62.6	76.1	101.5	133.6	179.3	218.2	225.0	265.5	299.4	324.7
80°	30.4	33.8	47.4	67.7	94.7	126.9	153.9	164.1	191.1	216.5	223.3
82.5°	18.6	20.3	32.1	45.7	66.0	89.6	109.9	113.3	140.4	160.7	165.8
85°	6.8	8.5	16.9	27.1	42.3	57.5	57.5	62.6	57.5	57.5	62.6
87.5°	0.0	0.0	1.7	3.4	3.4	5.1	6.8	6.8	8.5	10.1	11.8
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°	4362.1	4362.1	4362.1	4362.1	4362.1	4362.1	4362.1	4362.1	4362.1	4362.1	4362.1
2.5°	4374.0	4365.5	4352.0	4302.9	4297.8	4282.6	4198.1	4184.5	4198.1	4157.5	4160.8
5°	4365.5	4390.9	4289.4	4240.3	4149.0	4083.0	4006.9	3968.0	3898.7	3854.7	3903.7
7.5°	4402.7	4392.6	4265.7	4159.1	4022.1	3854.7	3721.1	3645.0	3523.2	3489.4	3514.7
10°	4389.2	4335.1	4186.2	4045.8	3787.0	3639.9	3423.4	3213.7	3098.6	3039.4	3031.0
12.5°	4370.6	4355.4	4106.7	3864.8	3592.5	3283.0	2978.6	2780.7	2592.9	2511.7	2523.6
15°	4392.6	4264.0	3957.9	3651.7	3289.8	2883.8	2555.7	2300.3	2170.1	2117.6	2117.6
17.5°	4382.4	4220.0	3886.8	3413.2	2954.9	2474.5	2114.2	1960.3	1906.2	1906.2	1921.4
20°	4387.5	4248.8	3743.1	3174.8	2559.1	2083.8	1821.6	1765.8	1789.5	1798.0	1806.4
22.5°	4416.2	4154.1	3602.7	2912.6	2192.1	1782.7	1654.2	1655.9	1698.2	1743.8	1735.4
25°	4451.8	4116.9	3431.8	2652.1	1911.3	1635.6	1595.0	1589.9	1622.1	1645.7	1649.1
27.5°	4421.3	4052.6	3257.6	2327.4	1681.3	1537.5	1529.0	1532.4	1542.6	1589.9	1574.7
30°	4521.1	4071.2	3039.4	2055.0	1554.4	1505.3	1495.2	1490.1	1505.3	1518.9	1507.0
32.5°	4644.6	4005.2	2877.1	1792.9	1491.8	1481.7	1461.4	1454.6	1463.1	1449.5	1456.3
35°	4698.7	3993.4	2665.6	1605.1	1442.8	1434.3	1422.5	1420.8	1422.5	1410.6	1400.5
37.5°	4729.2	4049.2	2423.8	1518.9	1412.3	1420.8	1393.7	1390.3	1359.9	1366.7	1371.7
40°	4781.6	3962.9	2227.6	1436.0	1393.7	1376.8	1353.1	1348.0	1327.7	1315.9	1327.7
42.5°	4705.5	3937.6	2034.8	1400.5	1366.7	1348.0	1331.1	1302.4	1295.6	1285.5	1278.7
45°	4644.6	3792.1	1862.2	1356.5	1334.5	1324.4	1292.2	1261.8	1236.4	1246.6	1231.3
47.5°	4690.2	3741.4	1691.4	1319.3	1290.5	1278.7	1246.6	1222.9	1197.5	1185.7	1182.3
50°	4872.9	3836.1	1547.6	1292.2	1253.3	1246.6	1204.3	1177.2	1153.5	1145.1	1148.5
52.5°	5309.3	4094.9	1449.5	1236.4	1217.8	1187.4	1163.7	1129.9	1114.6	1087.6	1104.5
55°	5862.4	4516.0	1424.2	1184.0	1173.8	1146.8	1114.6	1089.3	1060.5	1038.5	1033.4
56°	6040.0	4717.3	1403.9	1163.7	1146.8	1131.5	1089.3	1074.0	1028.4	1023.3	1019.9
57.5°	6183.8	4894.9	1407.2	1124.8	1107.9	1094.3	1069.0	1031.8	1001.3	982.7	991.2
60°	5859.0	4582.0	1343.0	1065.6	1062.2	1036.8	1001.3	984.4	947.2	925.2	920.1
62.5°	4355.4	3110.5	1089.3	989.5	987.8	960.7	920.1	901.5	894.7	864.3	864.3
65°	2508.3	1950.2	942.1	926.9	913.4	886.3	845.7	830.5	813.6	803.4	795.0
67.5°	1070.7	1011.5	855.8	854.2	838.9	805.1	764.5	740.8	718.8	698.5	708.7
70°	776.4	788.2	773.0	764.5	745.9	703.6	668.1	639.3	605.5	592.0	602.1
72.5°	615.7	641.0	663.0	664.7	642.7	593.7	554.8	515.9	478.7	460.1	468.5
75°	466.8	483.7	505.7	510.8	478.7	444.8	407.6	367.0	338.3	316.3	319.7
77.5°	336.6	333.2	353.5	350.1	334.9	311.2	277.4	240.2	208.0	187.7	189.4
80°	230.0	235.1	246.9	245.3	226.6	211.4	186.1	155.6	131.9	115.0	111.6
82.5°	160.7	169.1	179.3	170.8	155.6	140.4	121.8	99.8	81.2	67.7	64.3
85°	57.5	66.0	76.1	81.2	86.3	82.9	69.3	55.8	40.6	33.8	32.1
87.5°	11.8	13.5	15.2	15.2	15.2	13.5	11.8	11.8	10.1	5.1	5.1
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)