

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: P527712

Luminaire Tested: **GALN-SA2D-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527712
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-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 12008 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

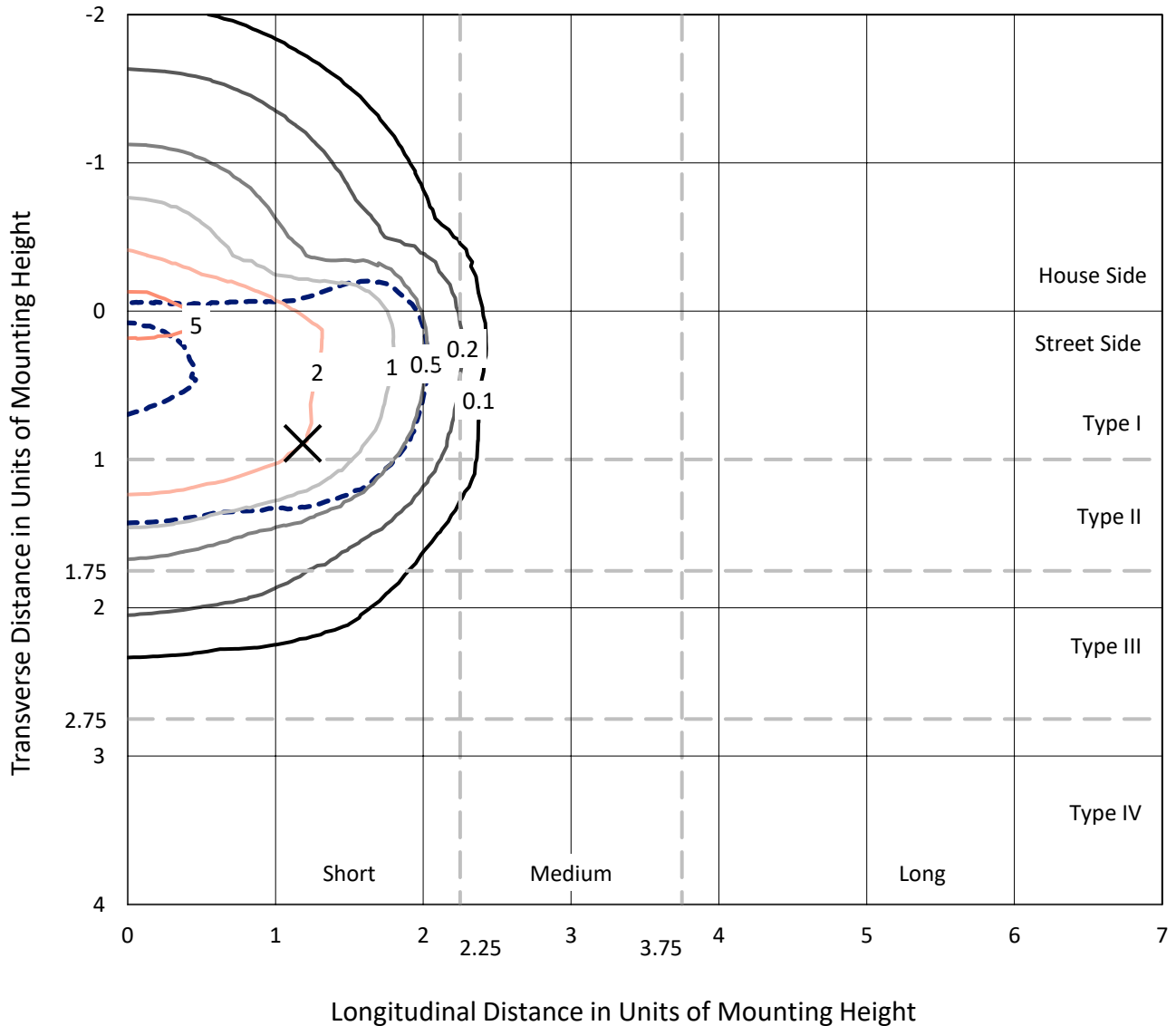
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

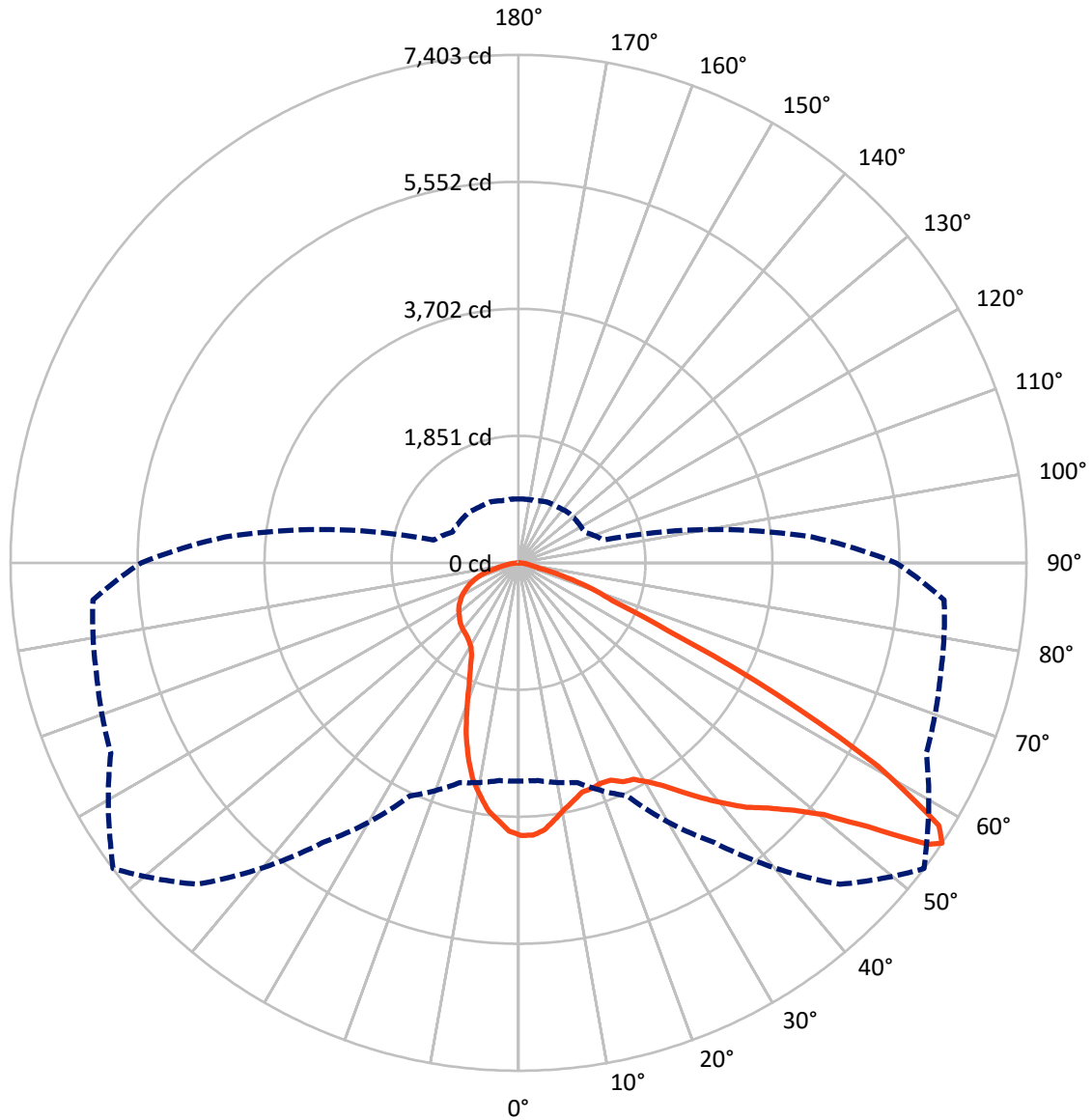
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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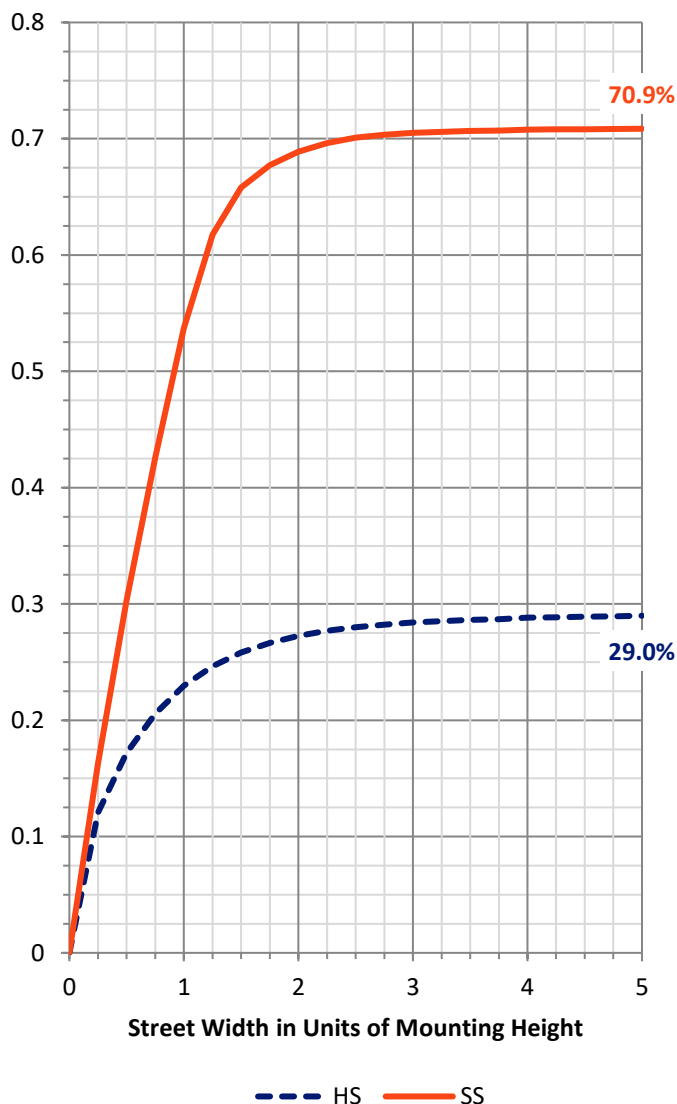
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3504.2	0.0	3504.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	8503.8	0.0	8503.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	12008.0	0.0	12008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.7	2.9
10°-20°	878.4	7.3
20°-30°	1295.3	10.8
30°-40°	1850.7	15.4
40°-50°	2547.2	21.2
50°-60°	3010.1	25.1
60°-70°	1604.2	13.4
70°-80°	407.0	3.4
80°-90°	63.5	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°	12008.0	100.0
0°-180°	12008.0	100.0

Coefficient of Utilization

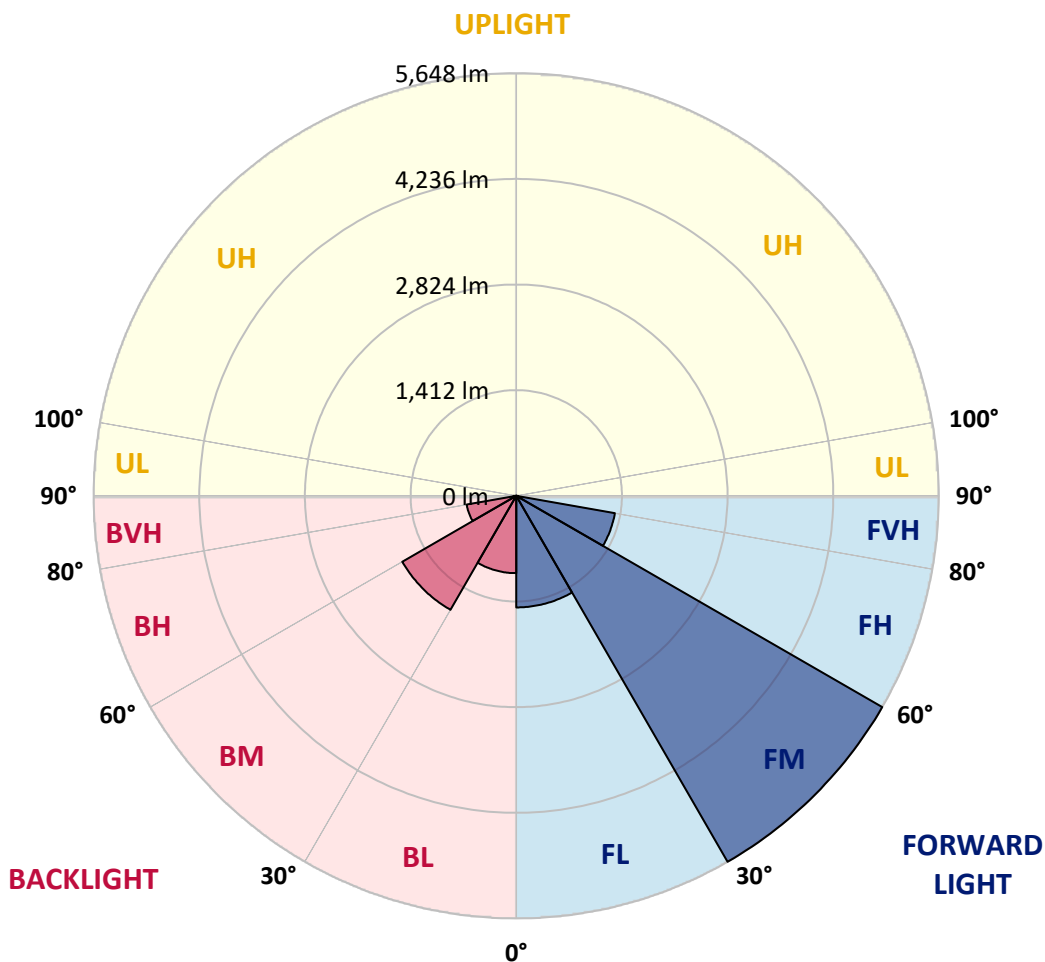


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1491.8	12.4			
FM (30°-60°)	5648.3	47.0			
FH (60°-80°)	1338.1	11.1			G1/1800
FVH (80°-90°)	25.5	0.2			G1/100
BL (0°-30°)	1033.5	8.6	B3/2500		
BM (30°-60°)	1759.7	14.7	B2/2500		
BH (60°-80°)	673.0	5.6	B2/1000		G2/1000
BVH (80°-90°)	38.0	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°	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7
2.5°	3923.4	3889.5	3909.6	3901.9	3965.0	3983.5	3974.3	3982.0	4017.4	4000.4	3965.0
5°	3666.2	3713.9	3723.2	3746.3	3783.2	3855.6	3912.6	3928.0	3945.0	4023.6	4015.9
7.5°	3432.0	3464.4	3447.4	3515.2	3595.3	3712.4	3781.7	3794.0	3949.6	3992.7	4025.1
10°	3284.2	3251.8	3328.8	3347.3	3438.2	3572.2	3655.4	3706.2	3847.9	4018.9	4039.0
12.5°	3147.1	3136.3	3182.5	3234.9	3336.5	3475.2	3559.9	3579.9	3798.7	3978.9	4072.8
15°	3045.4	3033.1	3079.3	3117.8	3236.4	3359.6	3467.5	3524.5	3744.7	3955.8	4043.6
17.5°	2965.3	2963.8	2989.9	3059.3	3180.9	3284.2	3458.2	3461.3	3717.0	3991.2	4068.2
20°	2960.7	2959.1	2963.8	3040.8	3151.7	3278.0	3429.0	3456.7	3717.0	3966.6	4069.8
22.5°	2999.2	2974.5	3002.3	3051.6	3131.7	3288.8	3439.7	3501.4	3806.4	4088.3	4139.1
25°	3060.8	3067.0	3082.4	3099.3	3145.5	3313.4	3535.2	3586.1	3911.1	4193.0	4234.6
27.5°	3173.2	3170.2	3176.3	3185.6	3225.6	3336.5	3573.8	3704.7	4129.8	4379.4	4337.8
30°	3338.1	3327.3	3351.9	3384.3	3347.3	3410.5	3701.6	3800.2	4333.2	4567.3	4453.3
32.5°	3487.5	3527.5	3573.8	3587.6	3542.9	3555.3	3871.1	3971.2	4502.6	4798.4	4595.0
35°	3673.9	3706.2	3767.8	3811.0	3803.3	3766.3	4102.1	4234.6	4747.5	4967.8	4744.5
37.5°	3855.6	3894.2	3995.8	4123.7	4052.8	4035.9	4348.6	4457.9	4823.0	5058.7	4853.8
40°	4148.3	4146.8	4322.4	4388.6	4451.8	4422.5	4604.3	4641.3	4863.1	5038.7	4856.9
42.5°	4491.8	4470.3	4649.0	4752.2	4833.8	4836.9	4870.8	4858.5	4881.6	4937.0	4824.6
45°	4818.4	4864.6	5044.8	5229.7	5311.3	5320.6	5095.7	5072.6	4913.9	4907.7	4763.0
47.5°	5217.4	5228.2	5376.0	5619.4	5808.9	5744.2	5386.8	5336.0	5055.6	5103.4	4866.2
50°	5240.5	5320.6	5453.1	5739.6	6321.8	6304.9	5764.2	5668.7	5283.6	5380.7	5154.2
52.5°	4756.8	4738.3	4895.4	5363.7	6283.3	6862.5	6389.6	6161.6	5773.5	5699.5	5621.0
55°	3624.6	3667.7	3806.4	4279.3	5456.1	6870.2	7241.5	7055.1	6297.2	6170.9	6080.0
56°	3179.4	3185.6	3316.5	3747.8	4978.6	6625.3	7403.2	7252.3	6557.5	6365.0	6226.3
57.5°	2635.6	2600.2	2668.0	2903.7	4202.2	6107.7	7226.1	7373.9	6862.5	6574.5	6381.9
60°	2074.9	2067.2	2039.5	2082.6	2655.7	4601.2	6015.3	6348.0	6831.7	6377.3	6112.4
62.5°	1694.5	1655.9	1711.4	1773.0	1845.4	2854.4	4226.9	4422.5	5423.8	5091.1	4592.0
65°	1314.0	1295.5	1364.8	1565.1	1608.2	1813.1	2407.7	2558.6	3202.5	3145.5	2769.7
67.5°	904.2	907.3	967.4	1272.4	1491.1	1472.6	1474.2	1552.7	1671.3	1241.6	1081.4
70°	573.0	571.5	603.8	819.5	1200.0	1212.3	1150.7	1127.6	1069.0	647.0	685.5
72.5°	368.2	357.4	374.3	452.9	620.8	717.8	739.4	753.3	619.2	508.3	551.5
75°	208.0	197.2	191.0	211.0	244.9	283.4	311.2	320.4	358.9	385.1	408.2
77.5°	63.2	57.0	69.3	92.4	121.7	163.3	198.7	204.9	241.8	272.7	295.8
80°	27.7	30.8	43.1	61.6	86.3	115.5	140.2	149.4	174.1	197.2	203.3
82.5°	16.9	18.5	29.3	41.6	60.1	81.6	100.1	103.2	127.9	146.3	151.0
85°	6.2	7.7	15.4	24.6	38.5	52.4	52.4	57.0	52.4	52.4	57.0
87.5°	0.0	0.0	1.5	3.1	3.1	4.6	6.2	6.2	7.7	9.2	10.8
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°	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7	3972.7
2.5°	3983.5	3975.8	3963.5	3918.8	3914.2	3900.3	3823.3	3811.0	3823.3	3786.3	3789.4
5°	3975.8	3998.9	3906.5	3861.8	3778.6	3718.6	3649.2	3613.8	3550.6	3510.6	3555.3
7.5°	4009.7	4000.4	3884.9	3787.9	3663.1	3510.6	3388.9	3319.6	3208.7	3177.9	3201.0
10°	3997.4	3948.1	3812.5	3684.7	3449.0	3315.0	3117.8	2926.8	2822.0	2768.1	2760.4
12.5°	3980.4	3966.6	3740.1	3519.8	3271.8	2989.9	2712.7	2532.4	2361.4	2287.5	2298.3
15°	4000.4	3883.4	3604.6	3325.7	2996.1	2626.4	2327.6	2095.0	1976.3	1928.6	1928.6
17.5°	3991.2	3843.3	3539.9	3108.5	2691.1	2253.6	1925.5	1785.3	1736.0	1736.0	1749.9
20°	3995.8	3869.5	3408.9	2891.4	2330.6	1897.8	1659.0	1608.2	1629.8	1637.5	1645.2
22.5°	4022.0	3783.2	3281.1	2652.6	1996.4	1623.6	1506.5	1508.1	1546.6	1588.2	1580.5
25°	4054.4	3749.4	3125.5	2415.4	1740.7	1489.6	1452.6	1448.0	1477.3	1498.8	1501.9
27.5°	4026.6	3690.8	2966.8	2119.6	1531.2	1400.2	1392.5	1395.6	1404.9	1448.0	1434.1
30°	4117.5	3707.8	2768.1	1871.6	1415.6	1371.0	1361.7	1357.1	1371.0	1383.3	1372.5
32.5°	4230.0	3647.7	2620.2	1632.8	1358.6	1349.4	1330.9	1324.8	1332.5	1320.1	1326.3
35°	4279.3	3636.9	2427.7	1461.8	1314.0	1306.3	1295.5	1293.9	1295.5	1284.7	1275.5
37.5°	4307.0	3687.7	2207.4	1383.3	1286.2	1293.9	1269.3	1266.2	1238.5	1244.7	1249.3
40°	4354.7	3609.2	2028.7	1307.8	1269.3	1253.9	1232.3	1227.7	1209.2	1198.4	1209.2
42.5°	4285.4	3586.1	1853.1	1275.5	1244.7	1227.7	1212.3	1186.1	1180.0	1170.7	1164.6
45°	4230.0	3453.6	1696.0	1235.4	1215.4	1206.1	1176.9	1149.1	1126.0	1135.3	1121.4
47.5°	4271.6	3407.4	1540.4	1201.5	1175.3	1164.6	1135.3	1113.7	1090.6	1079.8	1076.7
50°	4437.9	3493.7	1409.5	1176.9	1141.4	1135.3	1096.8	1072.1	1050.6	1042.9	1045.9
52.5°	4835.3	3729.3	1320.1	1126.0	1109.1	1081.4	1059.8	1029.0	1015.1	990.5	1005.9
55°	5339.1	4112.9	1297.0	1078.3	1069.0	1044.4	1015.1	992.0	965.8	945.8	941.2
56°	5500.8	4296.2	1278.5	1059.8	1044.4	1030.5	992.0	978.2	936.6	931.9	928.9
57.5°	5631.7	4457.9	1281.6	1024.4	1009.0	996.6	973.5	939.7	911.9	895.0	902.7
60°	5336.0	4173.0	1223.1	970.5	967.4	944.3	911.9	896.5	862.6	842.6	838.0
62.5°	3966.6	2832.8	992.0	901.1	899.6	875.0	838.0	821.0	814.9	787.1	787.1
65°	2284.4	1776.1	858.0	844.1	831.8	807.2	770.2	756.3	740.9	731.7	724.0
67.5°	975.1	921.2	779.4	777.9	764.0	733.2	696.3	674.7	654.7	636.2	645.4
70°	707.0	717.8	704.0	696.3	679.3	640.8	608.5	582.3	551.5	539.1	548.4
72.5°	560.7	583.8	603.8	605.4	585.4	540.7	505.3	469.8	435.9	419.0	426.7
75°	425.2	440.6	460.6	465.2	435.9	405.1	371.2	334.3	308.1	288.1	291.1
77.5°	306.5	303.5	321.9	318.9	305.0	283.4	252.6	218.7	189.5	171.0	172.5
80°	209.5	214.1	224.9	223.4	206.4	192.6	169.4	141.7	120.2	104.7	101.7
82.5°	146.3	154.0	163.3	155.6	141.7	127.9	110.9	90.9	73.9	61.6	58.5
85°	52.4	60.1	69.3	73.9	78.6	75.5	63.2	50.8	37.0	30.8	29.3
87.5°	10.8	12.3	13.9	13.9	13.9	12.3	10.8	10.8	9.2	4.6	4.6
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)