

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: P527480

Luminaire Tested: **GALN-SA2C-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10893 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

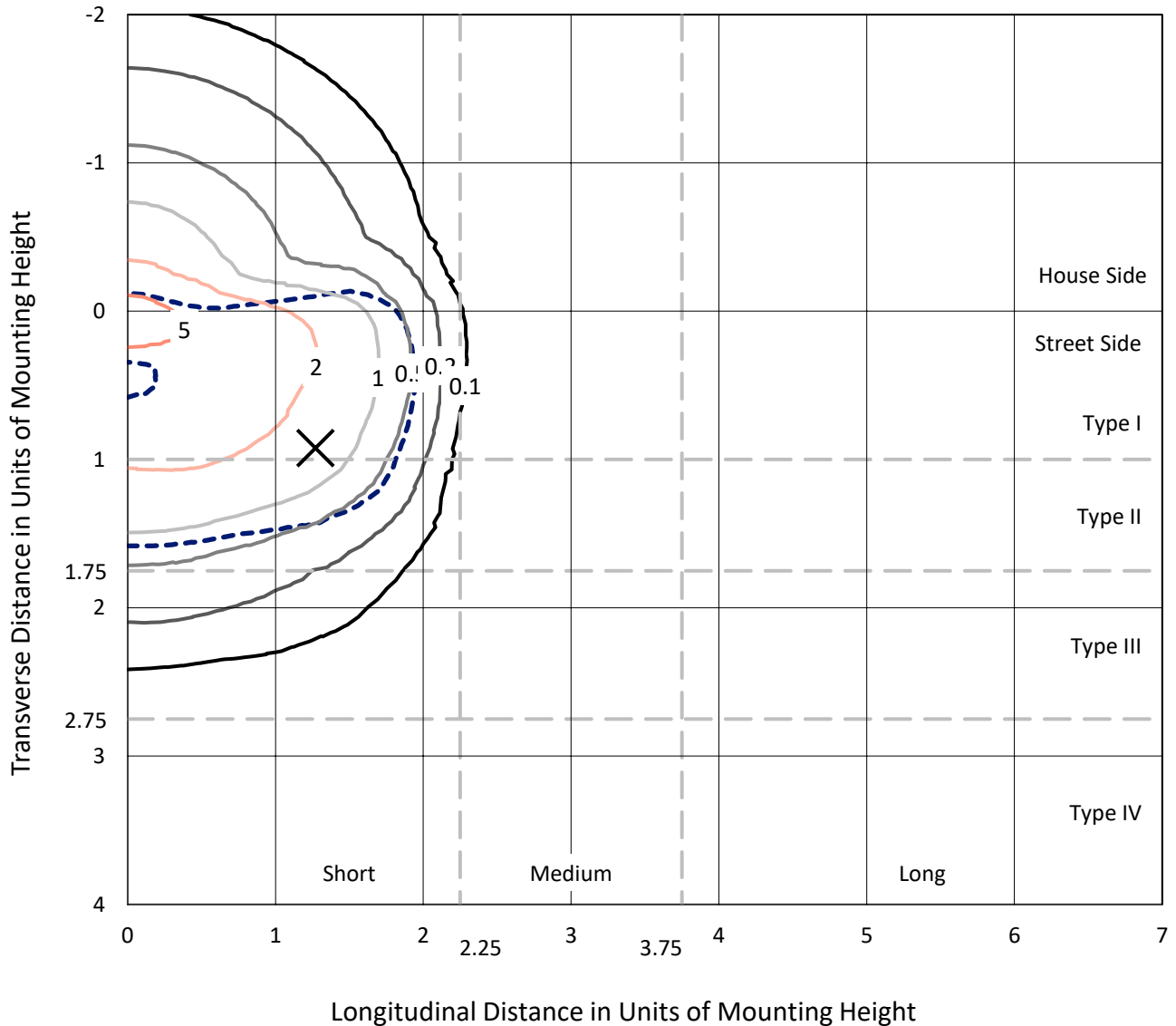
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

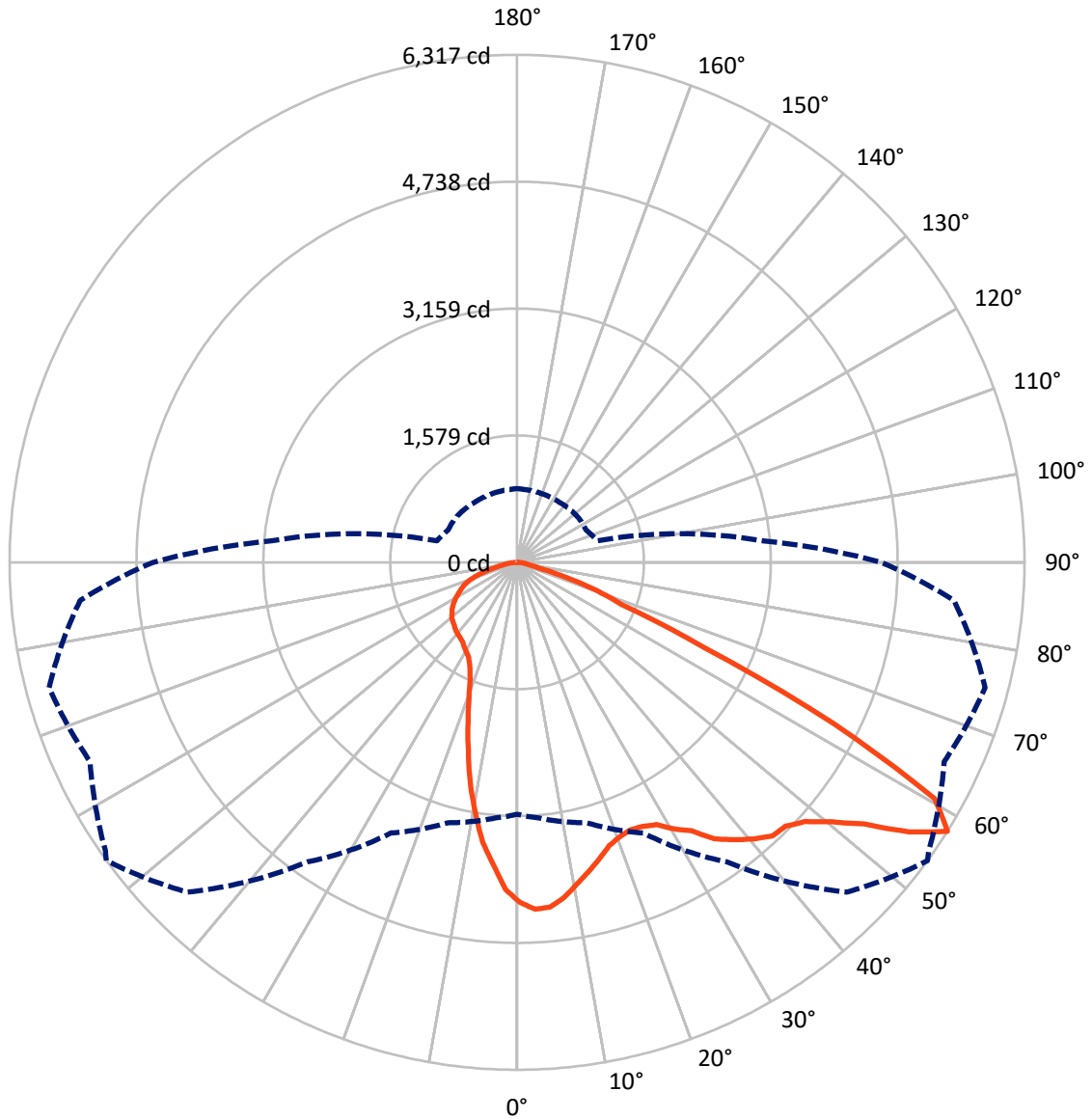
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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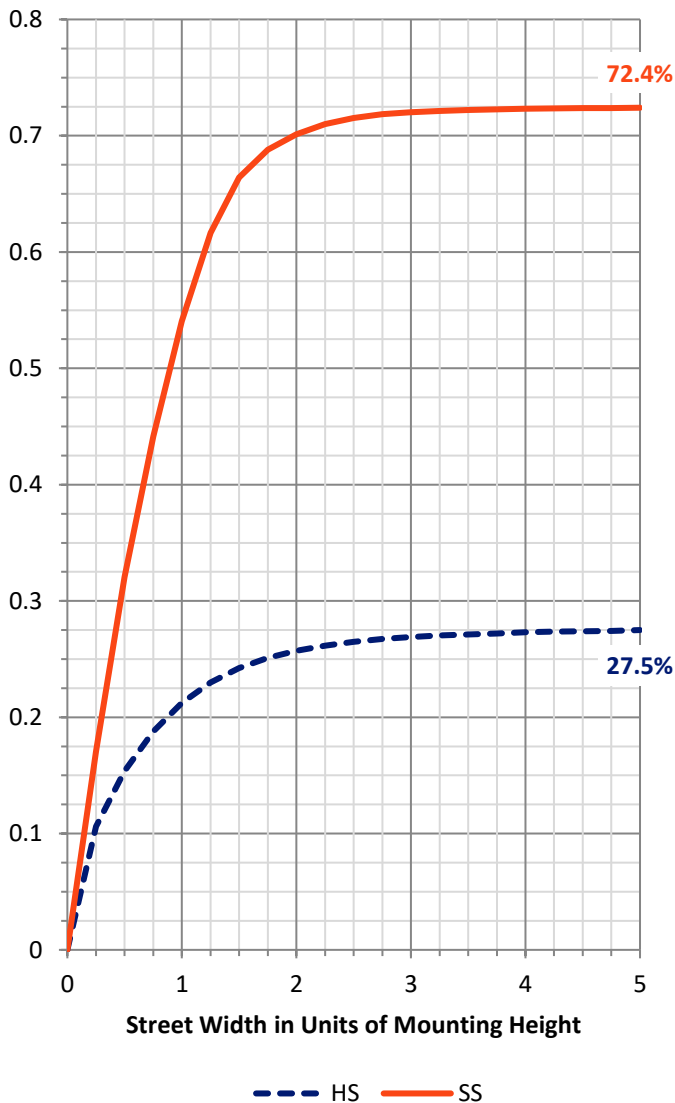
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3013.6	0.0	3013.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	7879.4	0.0	7879.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	10893.0	0.0	10893.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.1	3.4
10°-20°	845.4	7.8
20°-30°	1187.8	10.9
30°-40°	1660.6	15.2
40°-50°	2248.2	20.6
50°-60°	2738.4	25.1
60°-70°	1426.3	13.1
70°-80°	365.4	3.4
80°-90°	55.7	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°	10893.0	100.0
0°-180°	10893.0	100.0

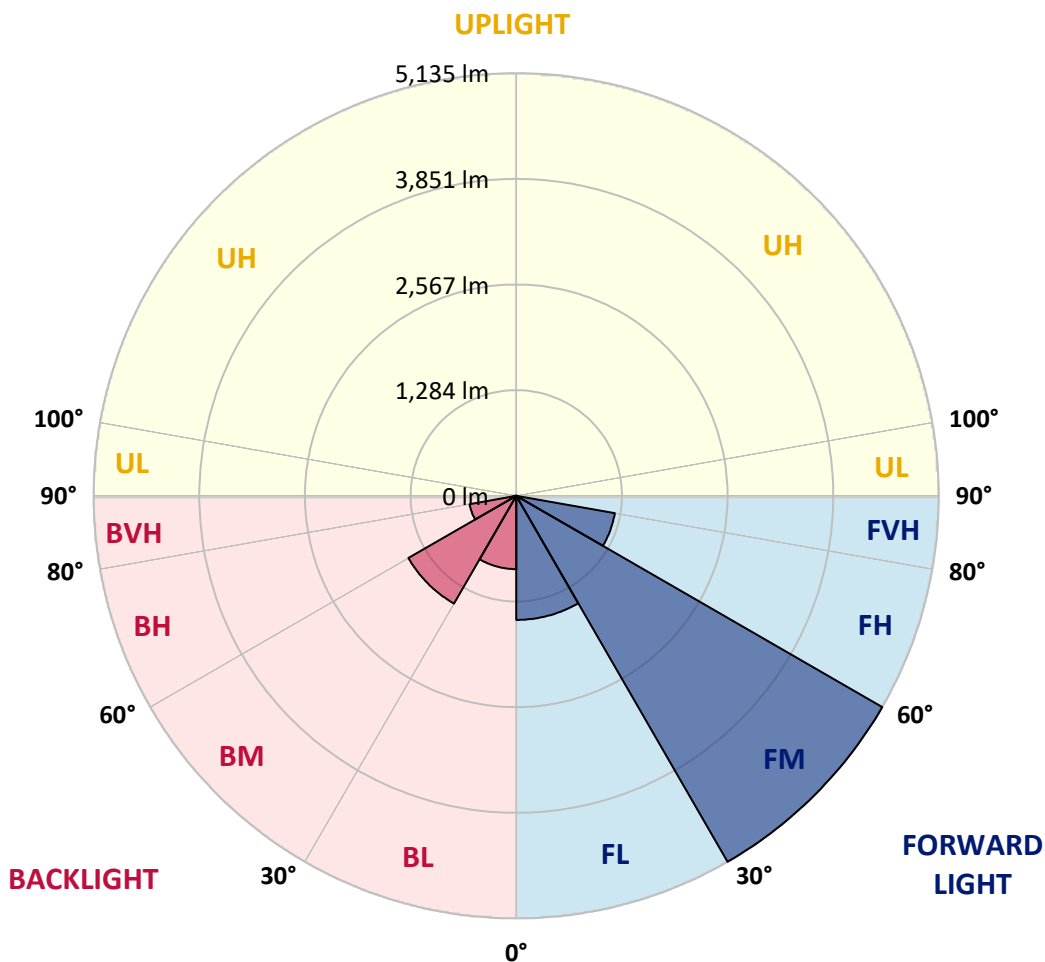


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.7	13.8			
FM (30°-60°)	5134.6	47.1			
FH (60°-80°)	1216.0	11.2			G1/1800
FVH (80°-90°)	21.1	0.2			G1/100
BL (0°-30°)	890.7	8.2	B2/1000		
BM (30°-60°)	1512.5	13.9	B2/2500		
BH (60°-80°)	575.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	34.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4234.0	4234.0	4234.0	4234.0	4234.0	4234.0	4234.0	4234.0	4234.0	4234.0	4234.0
2.5°	4354.4	4337.6	4340.4	4362.8	4334.8	4323.6	4323.6	4269.0	4273.2	4235.4	4225.6
5°	4253.6	4214.4	4241.0	4274.6	4280.2	4291.4	4309.6	4295.6	4256.4	4215.8	4150.0
7.5°	3990.4	4025.4	4035.2	4059.0	4109.4	4155.6	4213.0	4173.8	4172.4	4131.8	4092.6
10°	3759.3	3738.3	3791.5	3826.5	3910.6	3987.6	4075.8	4071.6	4092.6	4046.4	3979.2
12.5°	3529.7	3512.9	3538.1	3617.9	3735.5	3847.5	3952.6	3913.4	4025.4	4017.0	3872.8
15°	3286.1	3298.7	3335.1	3409.3	3563.3	3697.7	3830.7	3832.1	3931.6	3965.2	3771.9
17.5°	3115.3	3101.3	3147.5	3258.1	3395.3	3556.3	3707.5	3738.3	3891.0	3910.6	3741.1
20°	2987.9	3007.5	3067.7	3123.7	3281.9	3476.5	3647.3	3658.5	3882.6	3935.8	3692.1
22.5°	2957.1	2945.9	2965.5	3056.5	3186.7	3398.1	3615.1	3657.1	3881.2	3927.4	3599.7
25°	2924.9	2961.3	2959.9	3050.9	3146.1	3335.1	3641.7	3687.9	3955.4	3970.8	3612.3
27.5°	2997.7	2993.5	3032.7	3039.7	3157.3	3351.9	3697.7	3732.7	4078.6	4066.0	3622.1
30°	3070.5	3049.5	3073.3	3155.9	3210.5	3448.5	3851.7	3848.9	4238.2	4229.8	3652.9
32.5°	3160.1	3150.3	3165.7	3238.5	3330.9	3577.3	3982.0	4064.6	4400.6	4453.8	3759.3
35°	3176.9	3217.5	3253.9	3351.9	3483.5	3785.9	4227.0	4295.6	4588.2	4754.8	3962.4
37.5°	3283.3	3298.7	3384.1	3557.7	3678.1	4064.6	4382.4	4425.8	4759.0	4948.0	4176.6
40°	3396.7	3414.9	3543.7	3725.7	3891.0	4246.6	4528.0	4542.0	4813.6	5096.5	4316.6
42.5°	3550.7	3567.5	3694.9	3923.2	4144.4	4402.0	4656.8	4672.2	4809.4	5267.3	4539.2
45°	3710.3	3750.9	3900.8	4159.8	4358.6	4584.0	4686.2	4749.2	4848.6	5419.9	4719.8
47.5°	3934.4	3972.2	4095.4	4348.8	4581.2	4743.6	4822.0	4883.6	4942.4	5552.9	4836.0
50°	4172.4	4179.4	4329.2	4558.8	4729.6	4924.2	5075.5	5096.5	5065.7	5706.9	5033.5
52.5°	4347.4	4369.8	4486.0	4710.0	4964.9	5204.3	5411.5	5433.9	5373.7	5764.3	5100.7
55°	4057.6	4045.0	4234.0	4532.2	5123.1	5621.5	5922.5	5939.3	5597.7	5942.1	5320.5
57.5°	3136.3	3196.5	3357.5	3717.3	4551.8	5806.3	6317.4	6257.2	5866.5	6031.7	5460.5
60°	2279.4	2265.4	2373.2	2614.0	3430.3	5004.1	5972.9	6034.5	5646.7	5436.7	4502.8
62.5°	1856.6	1837.0	1845.4	1853.8	2213.6	3321.1	4421.6	4420.2	4348.8	3907.8	3036.9
65°	1484.1	1530.3	1534.5	1597.5	1643.7	1984.0	2562.2	2699.4	2350.8	1928.0	1398.7
67.5°	1118.7	1101.9	1157.9	1381.9	1468.7	1432.3	1398.7	1414.1	1005.3	725.3	683.3
70°	659.5	652.5	719.7	963.3	1209.7	1138.3	1054.3	1055.7	690.3	506.8	564.3
72.5°	361.2	359.8	373.8	488.6	687.5	714.1	632.9	652.5	411.6	410.2	441.0
75°	201.6	197.4	193.2	215.6	247.8	261.8	267.4	270.2	282.8	316.4	329.0
77.5°	74.2	71.4	71.4	82.6	105.0	131.6	166.6	169.4	200.2	229.6	242.2
80°	25.2	28.0	37.8	51.8	70.0	93.8	113.4	116.2	141.4	161.0	165.2
82.5°	15.4	16.8	25.2	36.4	50.4	65.8	84.0	85.4	105.0	117.6	123.2
85°	7.0	8.4	14.0	22.4	32.2	43.4	44.8	44.8	43.4	44.8	42.0
87.5°	0.0	0.0	2.8	2.8	2.8	4.2	5.6	4.2	7.0	8.4	8.4
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°	4234.0	4234.0	4234.0	4234.0	4234.0	4234.0	4234.0	4234.0	4234.0	4234.0	4234.0
2.5°	4196.2	4180.8	4133.2	4091.2	4078.6	4022.6	3940.0	3949.8	3889.6	3917.6	3888.2
5°	4138.8	4087.0	3965.2	3913.4	3777.5	3715.9	3673.9	3568.9	3519.9	3510.1	3468.1
7.5°	3991.8	3959.6	3806.9	3666.9	3522.7	3399.5	3241.3	3133.5	3056.5	3035.5	2973.9
10°	3875.6	3804.1	3592.7	3379.9	3174.1	2959.9	2754.0	2593.0	2514.6	2423.6	2392.8
12.5°	3760.7	3652.9	3367.3	3094.3	2828.3	2558.0	2308.8	2112.8	1942.0	1901.4	1887.4
15°	3689.3	3501.7	3165.7	2836.7	2458.6	2105.8	1856.6	1727.8	1622.7	1579.3	1610.1
17.5°	3595.5	3377.1	2972.5	2534.2	2118.4	1793.6	1584.9	1505.1	1467.3	1471.5	1458.9
20°	3477.9	3259.5	2719.0	2259.8	1814.6	1555.5	1436.5	1407.1	1412.7	1422.5	1418.3
22.5°	3393.9	3116.7	2535.6	1979.8	1568.1	1423.9	1374.9	1353.9	1372.1	1380.5	1373.5
25°	3329.5	2994.9	2313.0	1732.0	1425.3	1349.7	1327.3	1325.9	1353.9	1365.1	1358.1
27.5°	3270.7	2881.5	2091.8	1542.9	1330.1	1292.3	1285.3	1302.1	1320.3	1331.5	1341.3
30°	3235.7	2794.7	1884.6	1384.7	1282.5	1264.3	1251.7	1267.1	1276.9	1288.1	1282.5
32.5°	3269.3	2733.0	1684.4	1295.1	1243.3	1225.1	1241.9	1232.1	1248.9	1258.7	1243.3
35°	3374.3	2678.4	1541.5	1247.5	1198.5	1205.5	1208.3	1204.1	1211.1	1202.7	1220.9
37.5°	3477.9	2658.8	1409.9	1206.9	1177.5	1177.5	1174.7	1166.3	1180.3	1177.5	1185.9
40°	3609.5	2671.4	1297.9	1163.5	1157.9	1155.1	1143.9	1142.5	1136.9	1138.3	1141.1
42.5°	3724.3	2699.4	1233.5	1135.5	1139.7	1145.3	1124.3	1107.5	1114.5	1100.5	1100.5
45°	3846.1	2724.6	1176.1	1115.9	1111.7	1110.3	1093.5	1083.7	1078.1	1079.5	1092.1
47.5°	4038.0	2761.1	1132.7	1089.3	1092.1	1071.1	1066.9	1054.3	1059.9	1068.3	1069.7
50°	4173.8	2838.1	1099.1	1058.5	1068.3	1054.3	1029.1	1023.5	1023.5	1037.5	1034.7
52.5°	4269.0	2945.9	1066.9	1024.9	1029.1	1017.9	1009.5	996.9	988.5	1008.1	1017.9
55°	4560.2	3125.1	1058.5	996.9	995.5	984.3	968.9	956.3	952.1	954.9	974.5
57.5°	4532.2	3069.1	1031.9	947.9	945.1	929.7	914.3	910.1	908.7	911.5	917.1
60°	3679.5	2266.8	921.3	891.9	887.7	884.9	869.5	852.7	844.3	852.7	845.7
62.5°	2434.8	1517.7	812.1	824.7	827.5	820.5	795.3	778.5	781.3	791.1	775.7
65°	1195.7	891.9	736.5	770.1	772.9	753.3	729.5	709.9	700.1	708.5	701.5
67.5°	683.3	681.9	674.9	709.9	708.5	688.9	651.1	634.3	617.5	620.3	616.1
70°	579.7	590.9	604.9	625.9	624.5	602.1	557.3	544.6	520.8	518.0	511.0
72.5°	456.4	476.0	506.8	522.2	509.6	481.6	452.2	431.2	410.2	397.6	401.8
75°	338.8	366.8	383.6	393.4	373.8	358.4	334.6	309.4	284.2	273.0	268.8
77.5°	246.4	254.8	270.2	277.2	264.6	249.2	235.2	210.0	186.2	170.8	166.6
80°	172.2	177.8	189.0	189.0	189.0	182.0	163.8	138.6	123.2	109.2	106.4
82.5°	120.4	126.0	137.2	131.6	130.2	121.8	110.6	91.0	74.2	64.4	61.6
85°	42.0	46.2	56.0	67.2	71.4	70.0	63.0	50.4	39.2	32.2	29.4
87.5°	9.8	9.8	11.2	9.8	9.8	11.2	9.8	9.8	9.8	7.0	5.6
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)