

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: P527688

Luminaire Tested: **GALN-SA2D-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527688
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-SA2D-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 11006 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

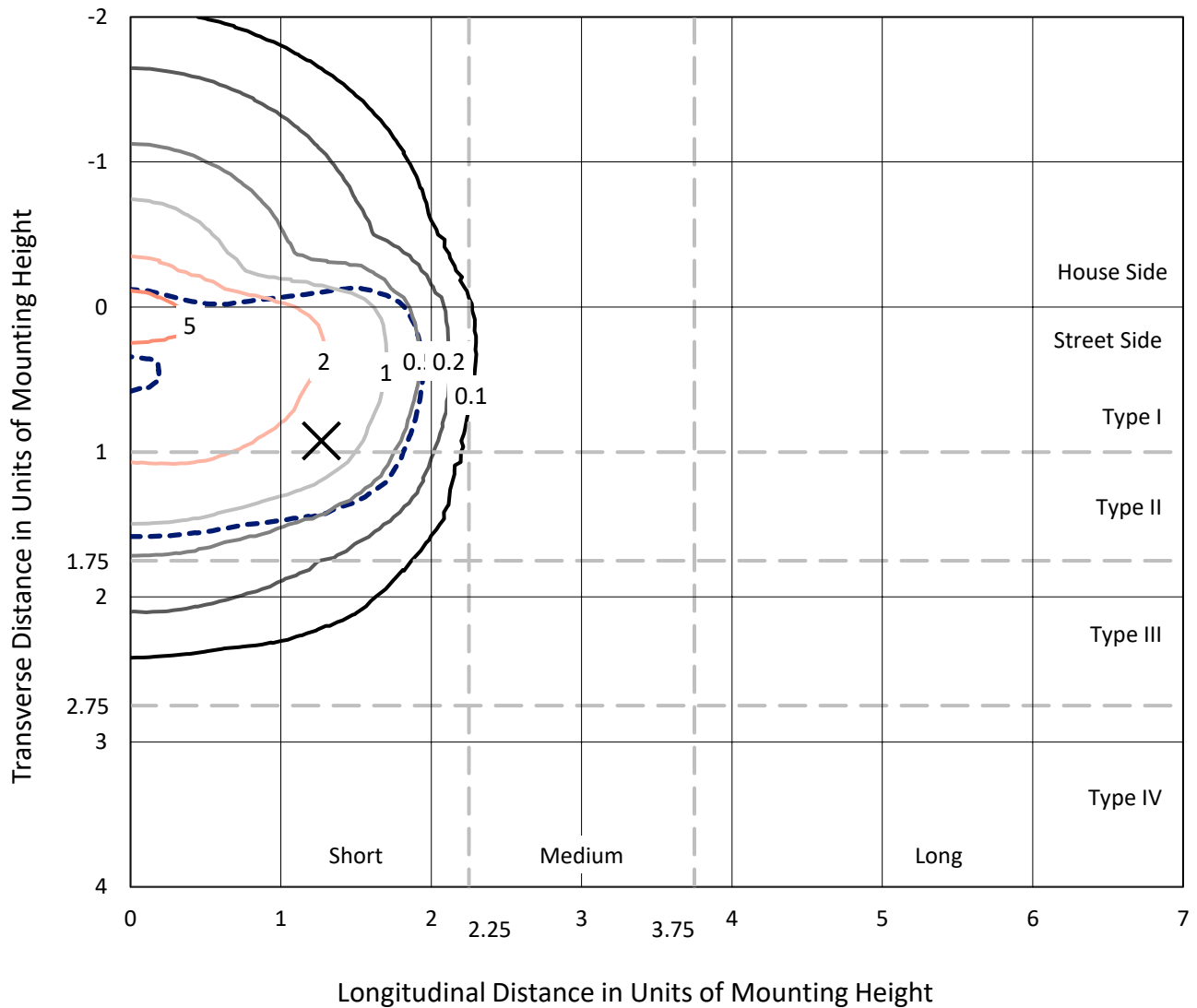
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

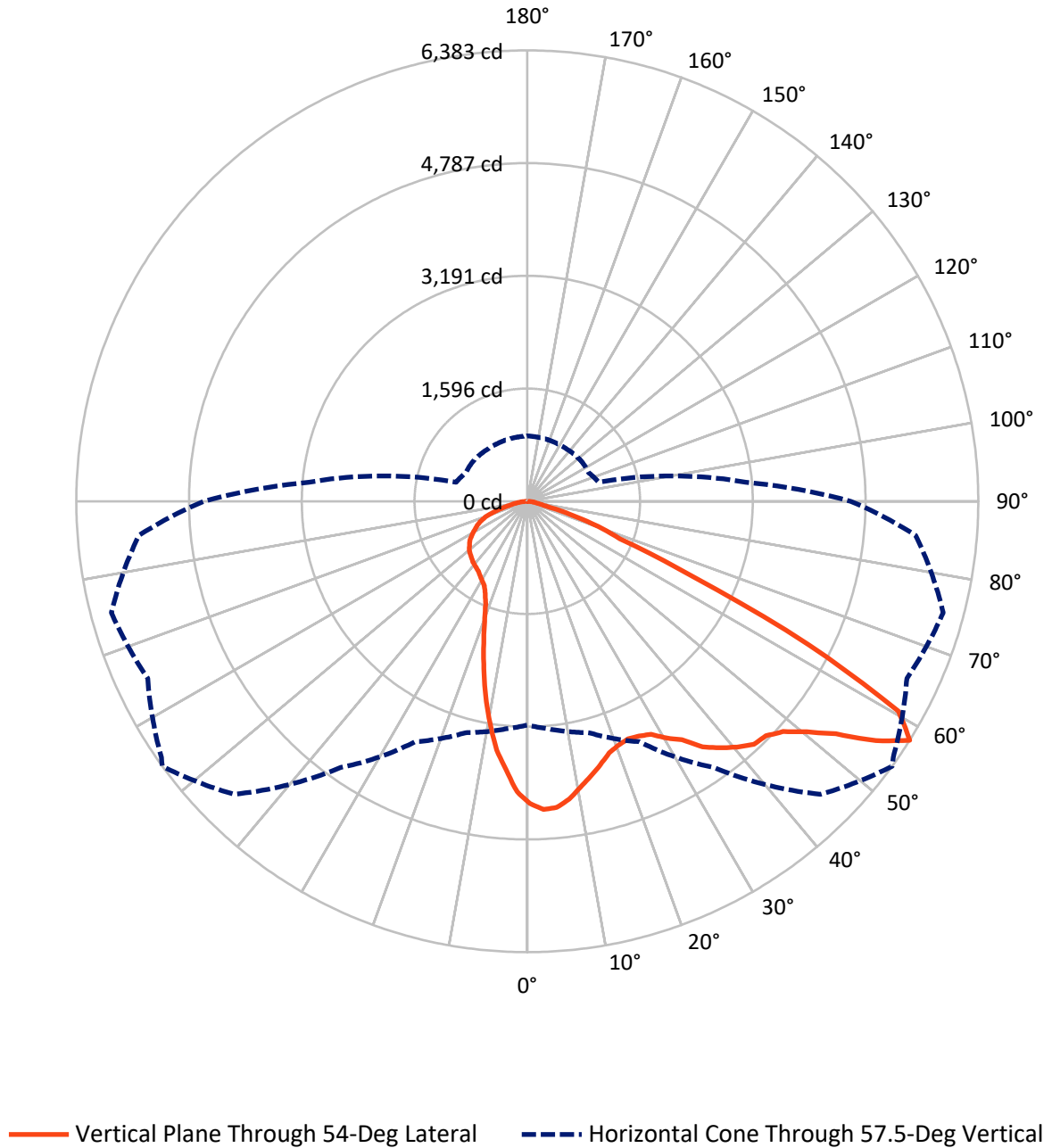
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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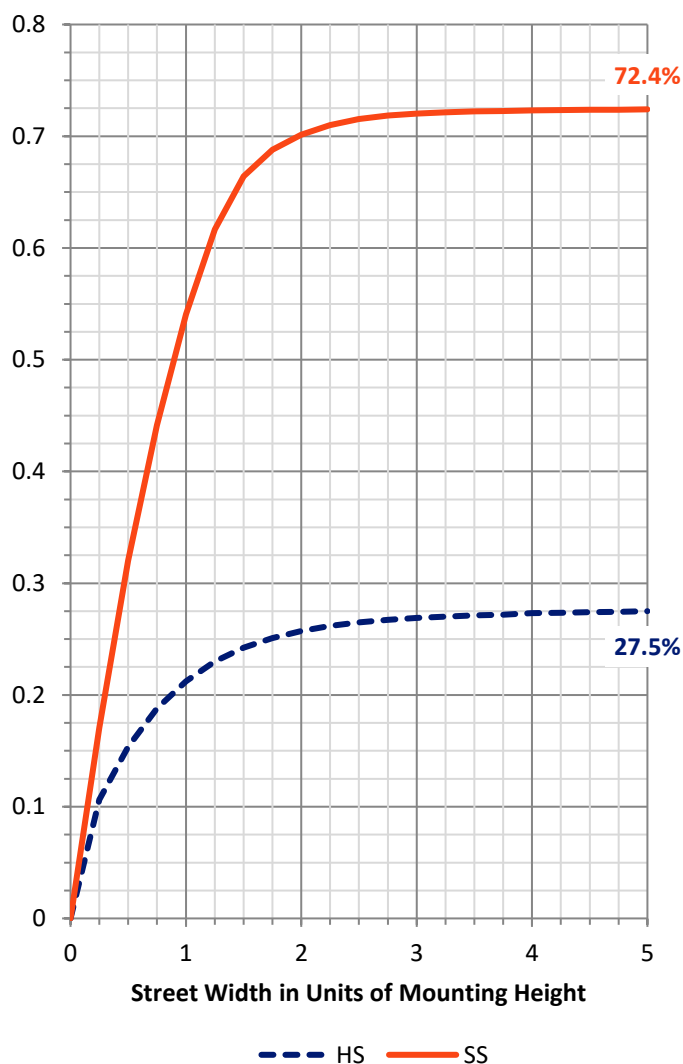
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3044.9	0.0	3044.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	7961.1	0.0	7961.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	11006.0	0.0	11006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.9	3.4
10°-20°	854.2	7.8
20°-30°	1200.2	10.9
30°-40°	1677.8	15.2
40°-50°	2271.5	20.6
50°-60°	2766.8	25.1
60°-70°	1441.0	13.1
70°-80°	369.2	3.4
80°-90°	56.3	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°	11006.0	100.0
0°-180°	11006.0	100.0

Coefficient of Utilization



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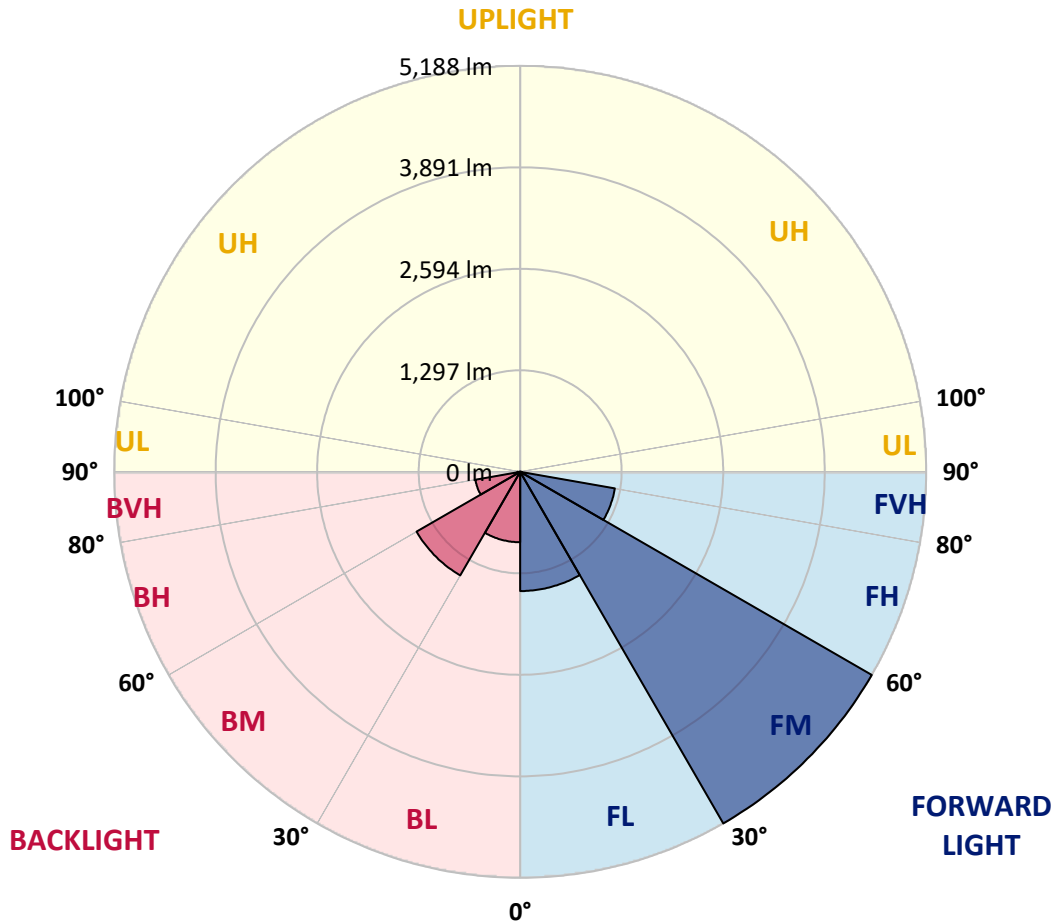
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1523.4	13.8			
FM (30°-60°)	5187.9	47.1			
FH (60°-80°)	1228.6	11.2			G1/1800
FVH (80°-90°)	21.3	0.2			G1/100
BL (0°-30°)	899.9	8.2	B2/1000		
BM (30°-60°)	1528.2	13.9	B2/2500		
BH (60°-80°)	581.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	35.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4277.9	4277.9	4277.9	4277.9	4277.9	4277.9	4277.9	4277.9	4277.9	4277.9	4277.9
2.5°	4399.6	4382.6	4385.4	4408.1	4379.8	4368.4	4368.4	4313.3	4317.5	4279.3	4269.4
5°	4297.7	4258.1	4285.0	4318.9	4324.6	4335.9	4354.3	4340.2	4300.5	4259.5	4193.0
7.5°	4031.8	4067.1	4077.0	4101.1	4152.0	4198.7	4256.7	4217.1	4215.7	4174.6	4135.0
10°	3798.3	3777.1	3830.9	3866.2	3951.1	4028.9	4118.1	4113.8	4135.0	4088.3	4020.4
12.5°	3566.3	3549.4	3574.8	3655.5	3774.3	3887.5	3993.6	3954.0	4067.1	4058.6	3912.9
15°	3320.2	3332.9	3369.7	3444.7	3600.3	3736.1	3870.5	3871.9	3972.3	4006.3	3811.1
17.5°	3147.6	3133.5	3180.1	3291.9	3430.5	3593.2	3746.0	3777.1	3931.3	3951.1	3779.9
20°	3018.9	3038.7	3099.5	3156.1	3315.9	3512.6	3685.2	3696.5	3922.8	3976.6	3730.4
22.5°	2987.7	2976.4	2996.2	3088.2	3219.7	3433.4	3652.6	3695.1	3921.4	3968.1	3637.1
25°	2955.2	2992.0	2990.6	3082.5	3178.7	3369.7	3679.5	3726.2	3996.4	4012.0	3649.8
27.5°	3028.8	3024.5	3064.1	3071.2	3190.0	3386.7	3736.1	3771.5	4120.9	4108.1	3659.7
30°	3102.3	3081.1	3105.2	3188.6	3243.8	3484.3	3891.7	3888.9	4282.2	4273.7	3690.8
32.5°	3192.9	3183.0	3198.5	3272.1	3365.5	3614.4	4023.3	4106.7	4446.2	4500.0	3798.3
35°	3209.8	3250.9	3287.7	3386.7	3519.7	3825.2	4270.8	4340.2	4635.8	4804.2	4003.5
37.5°	3317.4	3332.9	3419.2	3594.6	3716.3	4106.7	4427.9	4471.7	4808.4	4999.4	4219.9
40°	3431.9	3450.3	3580.5	3764.4	3931.3	4290.6	4575.0	4589.1	4863.6	5149.3	4361.4
42.5°	3587.6	3604.5	3733.3	3963.9	4187.4	4447.7	4705.1	4720.7	4859.3	5321.9	4586.3
45°	3748.8	3789.9	3941.2	4202.9	4403.8	4631.6	4734.8	4798.5	4898.9	5476.1	4768.8
47.5°	3975.2	4013.4	4137.9	4393.9	4628.7	4792.8	4872.1	4934.3	4993.7	5610.5	4886.2
50°	4215.7	4222.7	4374.1	4606.1	4778.7	4975.3	5128.1	5149.3	5118.2	5766.1	5085.7
52.5°	4392.5	4415.1	4532.5	4758.9	5016.4	5258.3	5467.6	5490.3	5429.4	5824.1	5153.6
55°	4099.7	4086.9	4277.9	4579.2	5176.2	5679.8	5984.0	6001.0	5655.8	6003.8	5375.7
57.5°	3168.8	3229.6	3392.3	3755.9	4599.0	5866.6	6382.9	6322.1	5927.4	6094.3	5517.1
60°	2303.1	2288.9	2397.8	2641.2	3465.9	5056.0	6034.9	6097.1	5705.3	5493.1	4549.5
62.5°	1875.8	1856.0	1864.5	1873.0	2236.6	3355.6	4467.5	4466.1	4393.9	3948.3	3068.4
65°	1499.5	1546.2	1550.5	1614.1	1660.8	2004.6	2588.8	2727.4	2375.2	1948.0	1413.2
67.5°	1130.3	1113.3	1169.9	1396.3	1484.0	1447.2	1413.2	1428.8	1015.7	732.8	690.3
70°	666.3	659.2	727.1	973.3	1222.3	1150.1	1065.2	1066.6	697.4	512.1	570.1
72.5°	365.0	363.6	377.7	493.7	694.6	721.5	639.4	659.2	415.9	414.5	445.6
75°	203.7	199.5	195.2	217.9	250.4	264.5	270.2	273.0	285.8	319.7	332.4
77.5°	75.0	72.1	72.1	83.5	106.1	133.0	168.3	171.2	202.3	232.0	244.7
80°	25.5	28.3	38.2	52.3	70.7	94.8	114.6	117.4	142.9	162.7	166.9
82.5°	15.6	17.0	25.5	36.8	50.9	66.5	84.9	86.3	106.1	118.8	124.5
85°	7.1	8.5	14.1	22.6	32.5	43.9	45.3	45.3	43.9	45.3	42.4
87.5°	0.0	0.0	2.8	2.8	2.8	4.2	5.7	4.2	7.1	8.5	8.5
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°	4277.9	4277.9	4277.9	4277.9	4277.9	4277.9	4277.9	4277.9	4277.9	4277.9	4277.9
2.5°	4239.7	4224.1	4176.1	4133.6	4120.9	4064.3	3980.8	3990.7	3929.9	3958.2	3928.5
5°	4181.7	4129.4	4006.3	3954.0	3816.7	3754.5	3712.0	3605.9	3556.4	3546.5	3504.1
7.5°	4033.2	4000.6	3846.4	3705.0	3559.3	3434.8	3274.9	3166.0	3088.2	3067.0	3004.7
10°	3915.8	3843.6	3630.0	3415.0	3207.0	2990.6	2782.6	2619.9	2540.7	2448.8	2417.6
12.5°	3799.8	3690.8	3402.2	3126.4	2857.6	2584.6	2332.8	2134.7	1962.1	1921.1	1907.0
15°	3727.6	3538.0	3198.5	2866.1	2484.1	2127.6	1875.8	1745.7	1639.6	1595.7	1626.8
17.5°	3632.8	3412.1	3003.3	2560.5	2140.4	1812.2	1601.4	1520.8	1482.6	1486.8	1474.1
20°	3514.0	3293.3	2747.3	2283.2	1833.4	1571.7	1451.4	1421.7	1427.4	1437.3	1433.0
22.5°	3429.1	3149.0	2561.9	2000.3	1584.4	1438.7	1389.2	1368.0	1386.4	1394.8	1387.8
25°	3364.0	3025.9	2337.0	1749.9	1440.1	1363.7	1341.1	1339.7	1368.0	1379.3	1372.2
27.5°	3304.6	2911.4	2113.5	1558.9	1343.9	1305.7	1298.7	1315.6	1334.0	1345.3	1355.2
30°	3269.3	2823.6	1904.1	1399.1	1295.8	1277.4	1264.7	1280.3	1290.2	1301.5	1295.8
32.5°	3303.2	2761.4	1701.8	1308.6	1256.2	1237.8	1254.8	1244.9	1261.9	1271.8	1256.2
35°	3409.3	2706.2	1557.5	1260.5	1210.9	1218.0	1220.8	1216.6	1223.7	1215.2	1233.6
37.5°	3514.0	2686.4	1424.6	1219.4	1189.7	1189.7	1186.9	1178.4	1192.6	1189.7	1198.2
40°	3647.0	2699.2	1311.4	1175.6	1169.9	1167.1	1155.8	1154.4	1148.7	1150.1	1152.9
42.5°	3763.0	2727.4	1246.3	1147.3	1151.5	1157.2	1136.0	1119.0	1126.1	1111.9	1111.9
45°	3886.0	2752.9	1188.3	1127.5	1123.2	1121.8	1104.8	1094.9	1089.3	1090.7	1103.4
47.5°	4079.9	2789.7	1144.5	1100.6	1103.4	1082.2	1078.0	1065.2	1070.9	1079.4	1080.8
50°	4217.1	2867.5	1110.5	1069.5	1079.4	1065.2	1039.8	1034.1	1034.1	1048.3	1045.4
52.5°	4313.3	2976.4	1078.0	1035.5	1039.8	1028.5	1020.0	1007.2	998.7	1018.5	1028.5
55°	4607.5	3157.5	1069.5	1007.2	1005.8	994.5	978.9	966.2	962.0	964.8	984.6
57.5°	4579.2	3100.9	1042.6	957.7	954.9	939.3	923.8	919.5	918.1	920.9	926.6
60°	3717.7	2290.3	930.8	901.1	896.9	894.1	878.5	861.5	853.0	861.5	854.4
62.5°	2460.1	1533.5	820.5	833.2	836.1	829.0	803.5	786.5	789.4	799.3	783.7
65°	1208.1	901.1	744.1	778.1	780.9	761.1	737.0	717.2	707.3	715.8	708.7
67.5°	690.3	688.9	681.9	717.2	715.8	696.0	657.8	640.8	623.9	626.7	622.4
70°	585.7	597.0	611.1	632.3	630.9	608.3	563.0	550.3	526.3	523.4	516.3
72.5°	461.2	481.0	512.1	527.7	514.9	486.6	456.9	435.7	414.5	401.8	406.0
75°	342.3	370.6	387.6	397.5	377.7	362.2	338.1	312.6	287.2	275.9	271.6
77.5°	249.0	257.5	273.0	280.1	267.4	251.8	237.7	212.2	188.1	172.6	168.3
80°	174.0	179.7	191.0	191.0	191.0	183.9	165.5	140.1	124.5	110.3	107.5
82.5°	121.7	127.3	138.6	133.0	131.6	123.1	111.8	92.0	75.0	65.1	62.2
85°	42.4	46.7	56.6	67.9	72.1	70.7	63.7	50.9	39.6	32.5	29.7
87.5°	9.9	9.9	11.3	9.9	9.9	11.3	9.9	9.9	9.9	7.1	5.7
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)