

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: P527530

Luminaire Tested: **GALN-SA2C-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527530
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-SA2C-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA 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: 11983 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

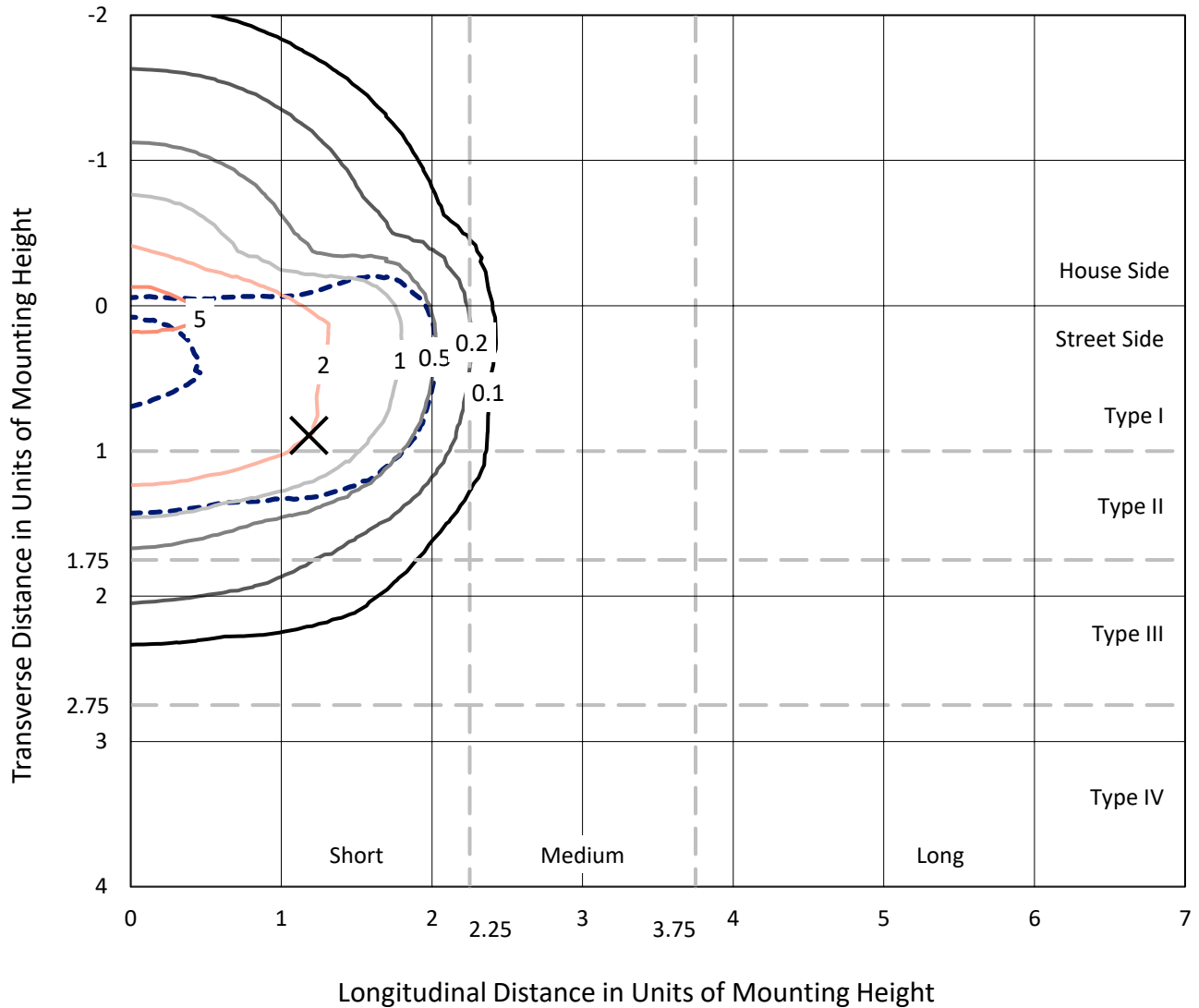
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527530
 CATALOG NUMBER: GALN-SA2C-740-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

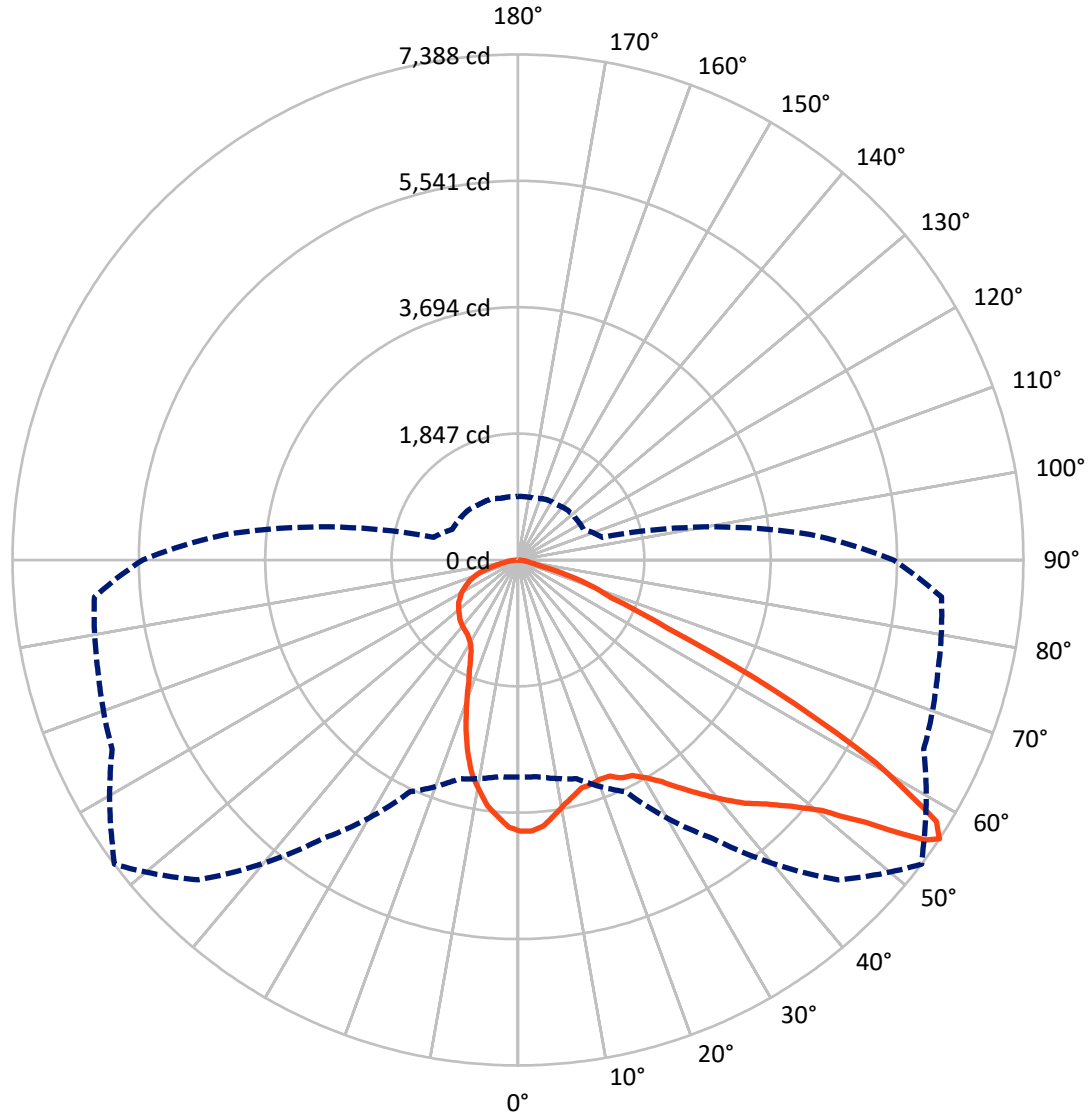
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

REPORT NUMBER: P527530
CATALOG NUMBER: GALN-SA2C-740-U-SL2-GRSWH

Luminous Intensity Polar Plot



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

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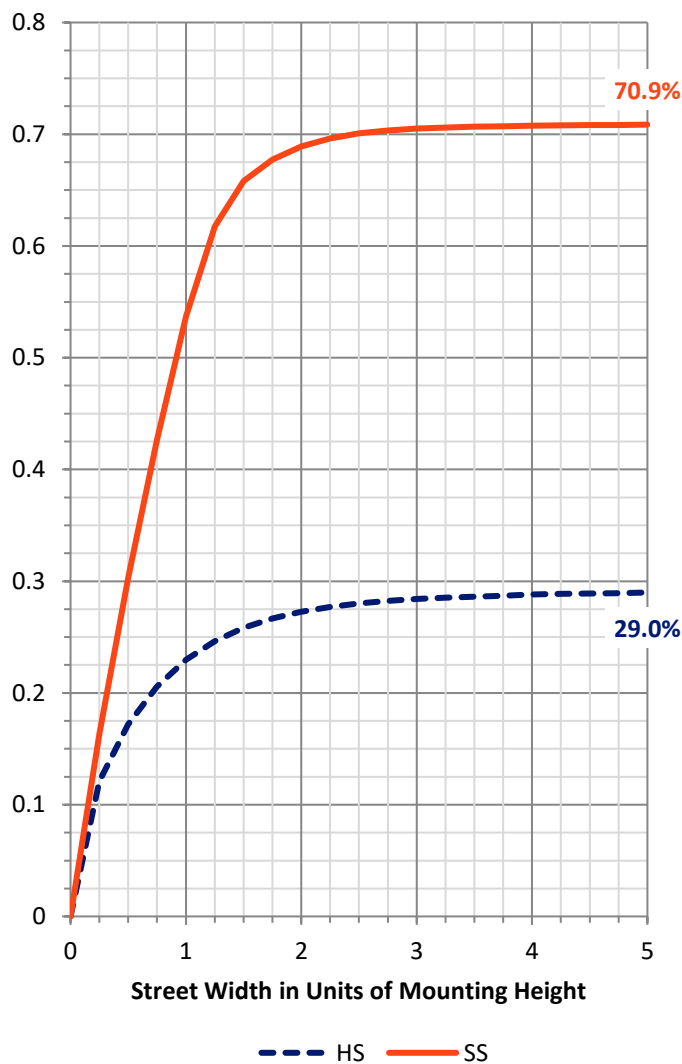
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3496.9	0.0	3496.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	8486.1	0.0	8486.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	11983.0	0.0	11983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.0	2.9
10°-20°	876.6	7.3
20°-30°	1292.6	10.8
30°-40°	1846.8	15.4
40°-50°	2541.9	21.2
50°-60°	3003.9	25.1
60°-70°	1600.9	13.4
70°-80°	406.1	3.4
80°-90°	63.3	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°	11983.0	100.0
0°-180°	11983.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527530

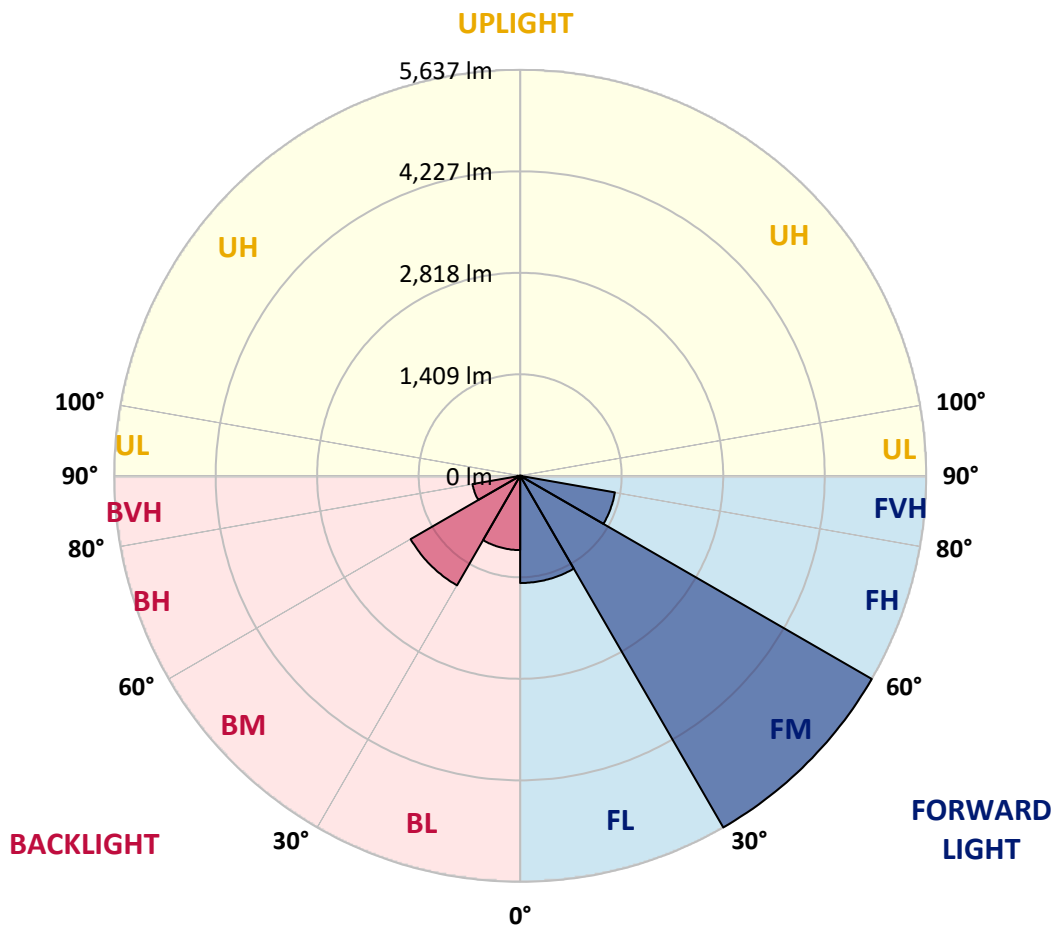
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1488.7	12.4			
FM (30°-60°)	5636.6	47.0			
FH (60°-80°)	1335.4	11.1			G1/1800
FVH (80°-90°)	25.5	0.2			G1/100
BL (0°-30°)	1031.4	8.6	B3/2500		
BM (30°-60°)	1756.0	14.7	B2/2500		
BH (60°-80°)	671.6	5.6	B2/1000		G2/1000
BVH (80°-90°)	37.9	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





REPORT NUMBER: P527530

CATALOG NUMBER: GALN-SA2C-740-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4
2.5°	3915.3	3881.4	3901.4	3893.7	3956.8	3975.2	3966.0	3973.7	4009.0	3992.1	3956.8
5°	3658.5	3706.2	3715.4	3738.5	3775.4	3847.6	3904.5	3919.9	3936.8	4015.2	4007.5
7.5°	3424.9	3457.2	3440.3	3507.9	3587.8	3704.7	3773.8	3786.1	3941.4	3984.4	4016.7
10°	3277.3	3245.0	3321.9	3340.3	3431.0	3564.8	3647.8	3698.5	3839.9	4010.6	4030.5
12.5°	3140.5	3129.7	3175.9	3228.1	3329.6	3467.9	3552.5	3572.5	3790.7	3970.6	4064.4
15°	3039.1	3026.8	3072.9	3111.3	3229.7	3352.6	3460.2	3517.1	3736.9	3947.5	4035.2
17.5°	2959.1	2957.6	2983.7	3052.9	3174.3	3277.3	3451.0	3454.1	3709.3	3982.9	4059.8
20°	2954.5	2953.0	2957.6	3034.4	3145.1	3271.2	3421.8	3449.5	3709.3	3958.3	4061.3
22.5°	2992.9	2968.3	2996.0	3045.2	3125.1	3281.9	3432.6	3494.1	3798.4	4079.7	4130.5
25°	3054.4	3060.6	3075.9	3092.9	3139.0	3306.5	3527.9	3578.6	3903.0	4184.3	4225.8
27.5°	3166.6	3163.6	3169.7	3178.9	3218.9	3329.6	3566.3	3697.0	4121.2	4370.3	4328.8
30°	3331.1	3320.4	3345.0	3377.2	3340.3	3403.4	3693.9	3792.3	4324.2	4557.8	4444.1
32.5°	3480.2	3520.2	3566.3	3580.1	3535.6	3547.9	3863.0	3962.9	4493.2	4788.4	4585.5
35°	3666.2	3698.5	3760.0	3803.0	3795.4	3758.5	4093.6	4225.8	4737.7	4957.5	4734.6
37.5°	3847.6	3886.1	3987.5	4115.1	4044.4	4027.5	4339.5	4448.7	4813.0	5048.2	4843.7
40°	4139.7	4138.2	4313.4	4379.5	4442.5	4413.3	4594.7	4631.6	4853.0	5028.2	4846.8
42.5°	4482.5	4461.0	4639.3	4742.3	4823.7	4826.8	4860.6	4848.3	4871.4	4926.7	4814.5
45°	4808.4	4854.5	5034.3	5218.8	5300.3	5309.5	5085.1	5062.0	4903.7	4897.5	4753.0
47.5°	5206.5	5217.3	5364.8	5607.7	5796.8	5732.2	5375.6	5324.9	5045.1	5092.8	4856.0
50°	5229.6	5309.5	5441.7	5727.6	6308.7	6291.8	5752.2	5656.9	5272.6	5369.5	5143.5
52.5°	4746.9	4728.4	4885.2	5352.5	6270.3	6848.2	6376.3	6148.8	5761.4	5687.7	5609.3
55°	3617.0	3660.1	3798.4	4270.4	5444.8	6855.9	7226.4	7040.4	6284.1	6158.0	6067.3
56°	3172.8	3178.9	3309.6	3740.0	4968.2	6611.5	7387.8	7237.2	6543.9	6351.7	6213.4
57.5°	2630.2	2594.8	2662.4	2897.6	4193.5	6095.0	7211.0	7358.6	6848.2	6560.8	6368.6
60°	2070.6	2062.9	2035.3	2078.3	2650.1	4591.6	6002.8	6334.8	6817.5	6364.0	6099.6
62.5°	1690.9	1652.5	1707.8	1769.3	1841.6	2848.4	4218.1	4413.3	5412.5	5080.5	4582.4
65°	1311.2	1292.8	1362.0	1561.8	1604.8	1809.3	2402.6	2553.3	3195.8	3139.0	2763.9
67.5°	902.3	905.4	965.4	1269.7	1488.0	1469.6	1471.1	1549.5	1667.9	1239.0	1079.1
70°	571.8	570.3	602.6	817.8	1197.5	1209.8	1148.3	1125.2	1066.8	645.6	684.1
72.5°	367.4	356.6	373.5	451.9	619.5	716.3	737.9	751.7	618.0	507.3	550.3
75°	207.5	196.8	190.6	210.6	244.4	282.8	310.5	319.7	358.2	384.3	407.4
77.5°	63.0	56.9	69.2	92.2	121.4	162.9	198.3	204.4	241.3	272.1	295.1
80°	27.7	30.7	43.0	61.5	86.1	115.3	139.9	149.1	173.7	196.8	202.9
82.5°	16.9	18.4	29.2	41.5	60.0	81.5	99.9	103.0	127.6	146.0	150.6
85°	6.1	7.7	15.4	24.6	38.4	52.3	52.3	56.9	52.3	52.3	56.9
87.5°	0.0	0.0	1.5	3.1	3.1	4.6	6.1	6.1	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



REPORT NUMBER: P527530

CATALOG NUMBER: GALN-SA2C-740-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4	3964.4
2.5°	3975.2	3967.5	3955.2	3910.6	3906.0	3892.2	3815.3	3803.0	3815.3	3778.4	3781.5
5°	3967.5	3990.6	3898.3	3853.8	3770.8	3710.8	3641.6	3606.3	3543.3	3503.3	3547.9
7.5°	4001.3	3992.1	3876.8	3780.0	3655.5	3503.3	3381.8	3312.7	3202.0	3171.3	3194.3
10°	3989.0	3939.9	3804.6	3677.0	3441.8	3308.1	3111.3	2920.7	2816.2	2762.4	2754.7
12.5°	3972.1	3958.3	3732.3	3512.5	3265.0	2983.7	2707.0	2527.2	2356.5	2282.7	2293.5
15°	3992.1	3875.3	3597.1	3318.8	2989.9	2620.9	2322.7	2090.6	1972.2	1924.6	1924.6
17.5°	3982.9	3835.3	3532.5	3102.1	2685.5	2248.9	1921.5	1781.6	1732.4	1732.4	1746.3
20°	3987.5	3861.5	3401.8	2885.3	2325.8	1893.8	1655.6	1604.8	1626.4	1634.0	1641.7
22.5°	4013.6	3775.4	3274.2	2647.1	1992.2	1620.2	1503.4	1504.9	1543.4	1584.9	1577.2
25°	4045.9	3741.6	3119.0	2410.3	1737.0	1486.5	1449.6	1445.0	1474.2	1495.7	1498.8
27.5°	4018.3	3683.1	2960.7	2115.2	1528.0	1397.3	1389.6	1392.7	1401.9	1445.0	1431.1
30°	4108.9	3700.0	2762.4	1867.7	1412.7	1368.1	1358.9	1354.3	1368.1	1380.4	1369.6
32.5°	4221.2	3640.1	2614.8	1629.4	1355.8	1346.6	1328.1	1322.0	1329.7	1317.4	1323.5
35°	4270.4	3629.3	2422.6	1458.8	1311.2	1303.5	1292.8	1291.3	1292.8	1282.0	1272.8
37.5°	4298.0	3680.1	2202.8	1380.4	1283.6	1291.3	1266.7	1263.6	1235.9	1242.1	1246.7
40°	4345.7	3601.7	2024.5	1305.1	1266.7	1251.3	1229.8	1225.2	1206.7	1195.9	1206.7
42.5°	4276.5	3578.6	1849.3	1272.8	1242.1	1225.2	1209.8	1183.6	1177.5	1168.3	1162.1
45°	4221.2	3446.4	1692.5	1232.8	1212.9	1203.6	1174.4	1146.8	1123.7	1132.9	1119.1
47.5°	4262.7	3400.3	1537.2	1199.0	1172.9	1162.1	1132.9	1111.4	1088.3	1077.6	1074.5
50°	4428.7	3486.4	1406.5	1174.4	1139.1	1132.9	1094.5	1069.9	1048.4	1040.7	1043.8
52.5°	4825.3	3721.6	1317.4	1123.7	1106.8	1079.1	1057.6	1026.9	1013.0	988.4	1003.8
55°	5327.9	4104.3	1294.3	1076.0	1066.8	1042.2	1013.0	990.0	963.8	943.8	939.2
56°	5489.4	4287.3	1275.9	1057.6	1042.2	1028.4	990.0	976.1	934.6	930.0	926.9
57.5°	5620.0	4448.7	1279.0	1022.2	1006.9	994.6	971.5	937.7	910.0	893.1	900.8
60°	5324.9	4164.3	1220.5	968.4	965.4	942.3	910.0	894.7	860.8	840.9	836.2
62.5°	3958.3	2826.9	990.0	899.3	897.7	873.1	836.2	819.3	813.2	785.5	785.5
65°	2279.7	1772.4	856.2	842.4	830.1	805.5	768.6	754.8	739.4	730.2	722.5
67.5°	973.1	919.2	777.8	776.3	762.5	731.7	694.8	673.3	653.3	634.9	644.1
70°	705.6	716.3	702.5	694.8	677.9	639.5	607.2	581.1	550.3	538.0	547.2
72.5°	559.5	582.6	602.6	604.1	584.1	539.6	504.2	468.8	435.0	418.1	425.8
75°	424.3	439.6	459.6	464.2	435.0	404.3	370.5	333.6	307.4	287.5	290.5
77.5°	305.9	302.8	321.3	318.2	304.4	282.8	252.1	218.3	189.1	170.6	172.2
80°	209.1	213.7	224.4	222.9	206.0	192.2	169.1	141.4	119.9	104.5	101.5
82.5°	146.0	153.7	162.9	155.3	141.4	127.6	110.7	90.7	73.8	61.5	58.4
85°	52.3	60.0	69.2	73.8	78.4	75.3	63.0	50.7	36.9	30.7	29.2
87.5°	10.8	12.3	13.8	13.8	13.8	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)