

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: P651892

Luminaire Tested: **GALN-SA5A-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19225.3 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

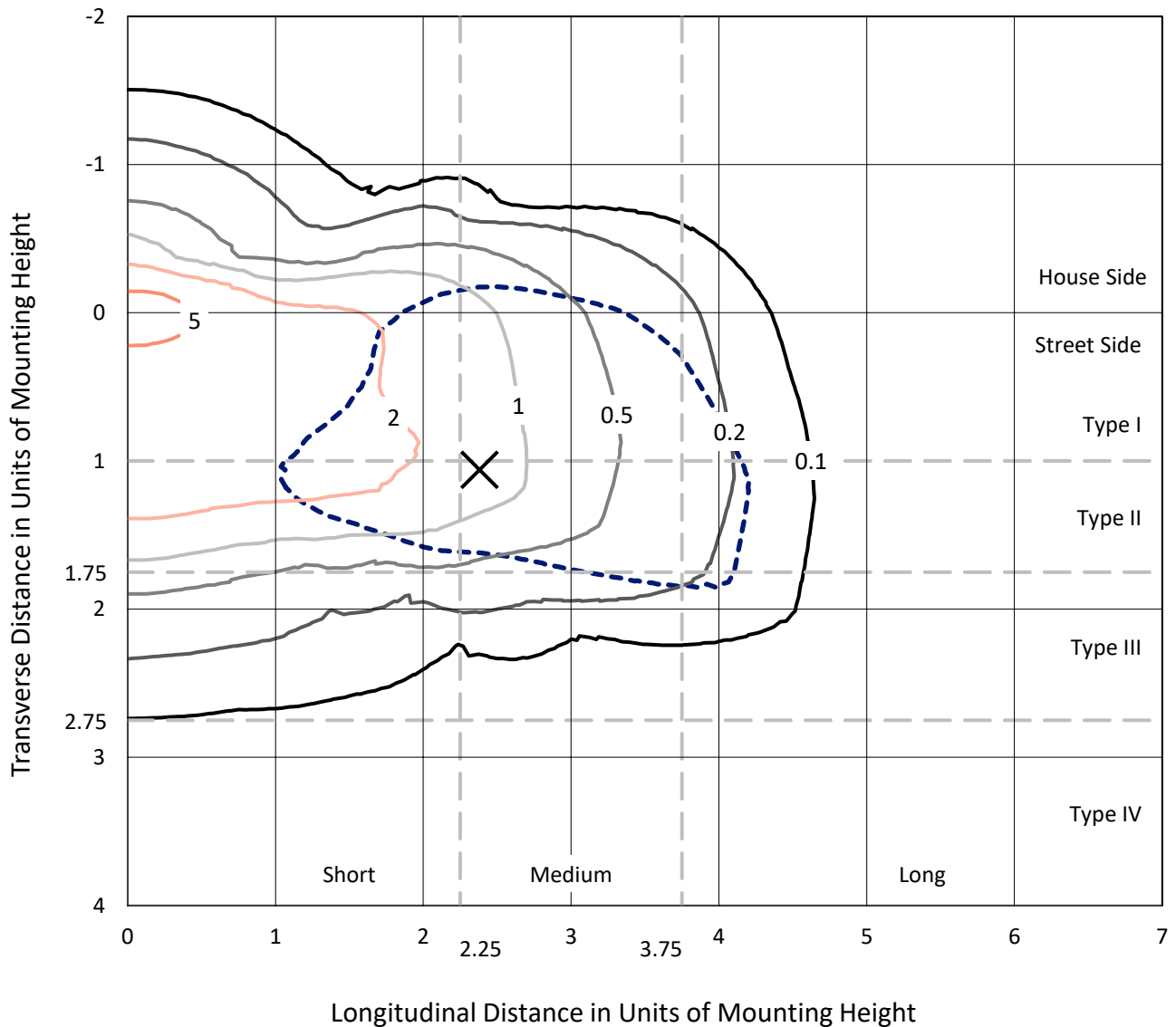
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

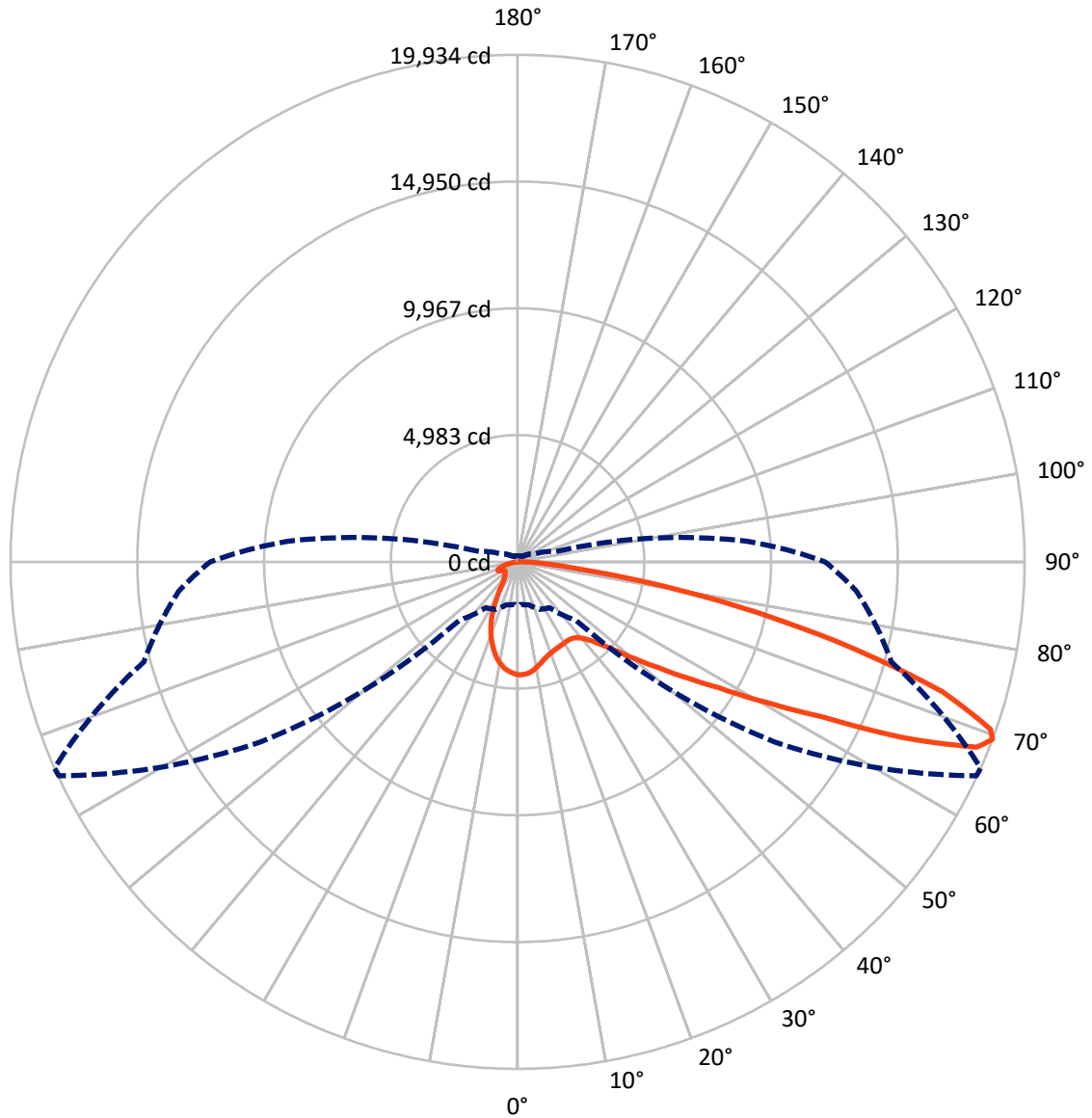
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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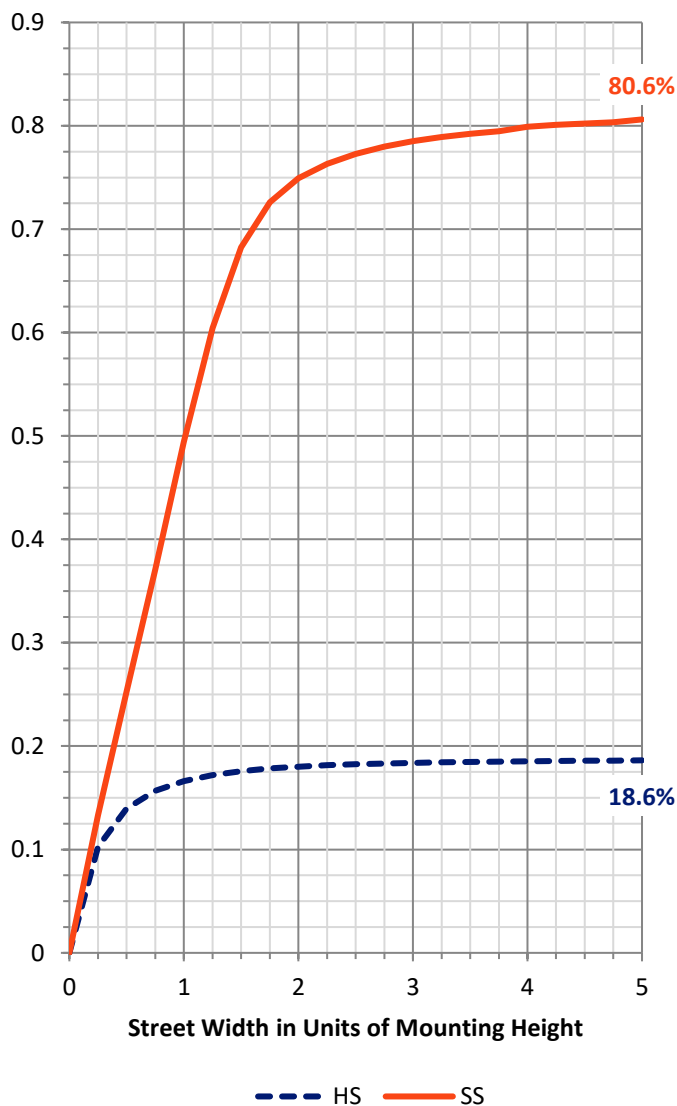
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3615.5	0.0	3615.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15609.7	0.0	15609.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	19225.3	0.0	19225.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.5	2.0
10°-20°	914.5	4.8
20°-30°	1244.9	6.5
30°-40°	1672.9	8.7
40°-50°	2497.9	13.0
50°-60°	3973.3	20.7
60°-70°	4887.0	25.4
70°-80°	3179.7	16.5
80°-90°	469.6	2.4
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°	19225.3	100.0
0°-180°	19225.3	100.0

Coefficient of Utilization

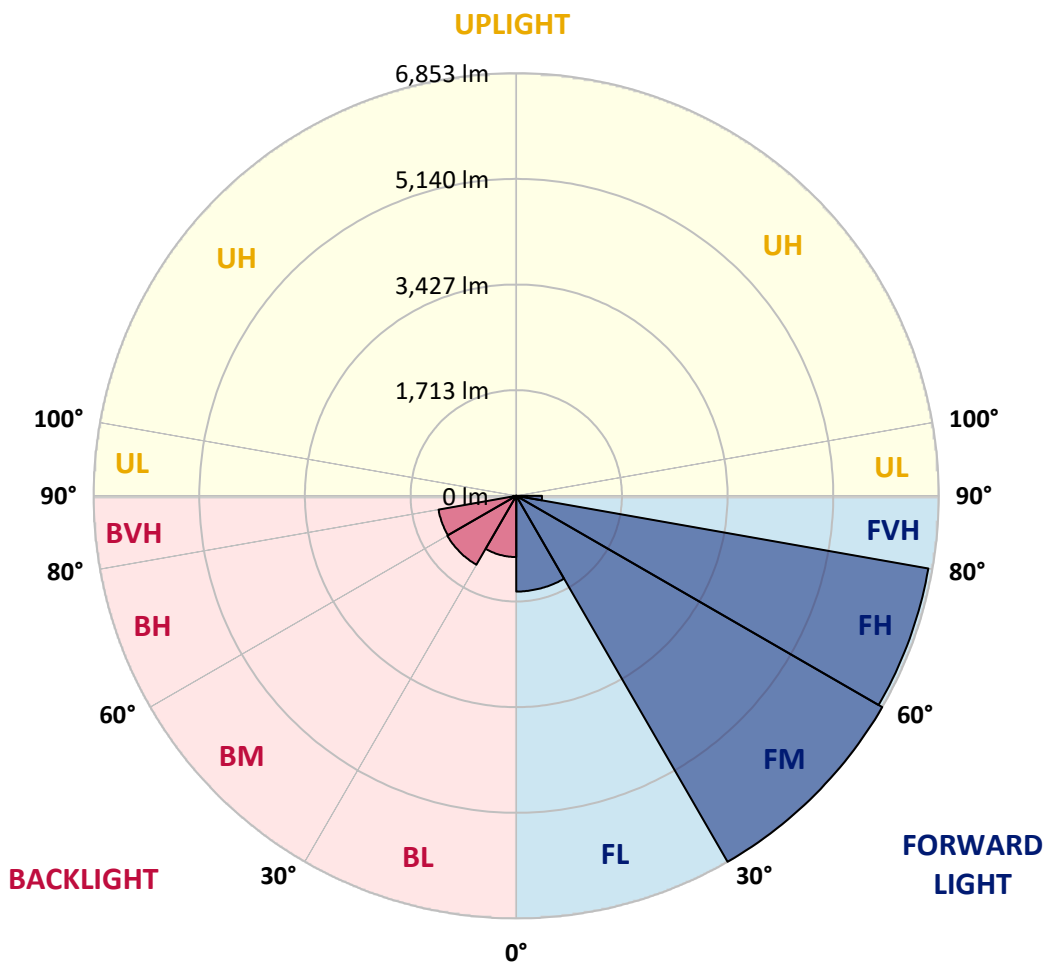


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1552.4	8.1			
FM (30°-60°)	6853.2	35.6			
FH (60°-80°)	6786.6	35.3			G3/7500
FVH (80°-90°)	417.5	2.2			G3/500
BL (0°-30°)	992.5	5.2	B2/1000		
BM (30°-60°)	1290.9	6.7	B2/2500		
BH (60°-80°)	1280.1	6.7	B3/2500		G3/2500
BVH (80°-90°)	52.1	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4439.6	4439.6	4439.6	4439.6	4439.6	4439.6	4439.6	4439.6	4439.6	4439.6	4439.6
2.5°	4284.2	4301.2	4320.4	4341.7	4382.1	4404.5	4420.5	4438.5	4440.7	4450.3	4442.8
5°	3968.0	3988.2	4017.0	4057.4	4118.1	4212.9	4310.8	4390.7	4400.3	4444.9	4457.7
7.5°	3703.9	3715.7	3739.1	3804.0	3890.3	3995.7	4138.3	4300.2	4323.6	4430.1	4467.3
10°	3488.9	3500.6	3528.3	3595.4	3680.6	3812.6	3969.1	4182.0	4201.1	4384.3	4469.5
12.5°	3328.2	3338.8	3368.6	3434.6	3532.5	3656.1	3828.6	4054.2	4082.0	4323.6	4449.2
15°	3205.7	3225.9	3250.4	3304.7	3408.0	3527.2	3694.3	3937.1	3959.5	4259.7	4435.3
17.5°	3153.5	3163.1	3180.2	3230.2	3305.8	3422.9	3591.1	3845.6	3872.2	4215.0	4432.2
20°	3155.7	3165.3	3168.5	3196.1	3250.4	3351.6	3517.7	3773.1	3805.1	4175.6	4437.5
22.5°	3228.1	3229.1	3217.4	3207.8	3229.1	3313.2	3465.5	3718.9	3756.2	4158.6	4441.7
25°	3339.9	3359.0	3342.0	3297.2	3257.9	3298.3	3445.2	3689.0	3724.2	4134.1	4436.4
27.5°	3520.8	3524.0	3510.2	3449.5	3347.3	3317.5	3436.7	3666.7	3696.5	4116.0	4409.9
30°	3763.6	3754.0	3741.2	3674.2	3513.4	3390.9	3454.8	3646.5	3677.4	4089.4	4377.9
32.5°	4009.6	4039.3	4027.6	3948.8	3740.2	3533.6	3513.4	3644.3	3669.9	4069.2	4342.8
35°	4270.3	4284.2	4339.6	4299.1	4085.1	3764.7	3623.0	3677.4	3697.5	4070.2	4318.3
37.5°	4474.8	4512.0	4641.9	4677.1	4475.9	4070.2	3800.8	3771.0	3779.5	4122.4	4327.9
40°	4721.8	4785.6	4952.8	5096.5	4964.5	4467.3	4103.2	3944.5	3955.2	4248.0	4390.7
42.5°	5034.8	5079.5	5304.2	5499.0	5477.7	4992.2	4469.5	4228.9	4234.2	4498.2	4566.4
45°	5401.1	5464.9	5717.2	6010.0	6060.1	5586.3	4998.6	4659.0	4655.8	4886.8	4894.3
47.5°	5869.5	5908.9	6159.1	6478.5	6680.7	6332.6	5640.6	5276.4	5242.4	5453.2	5392.5
50°	6300.7	6362.4	6552.0	6901.2	7404.8	7206.7	6484.9	6077.1	5997.3	6194.2	6092.0
52.5°	6481.7	6546.6	6706.3	7139.7	8025.4	8337.4	7557.0	7032.1	6899.1	7050.2	7012.9
55°	6167.6	6251.7	6400.8	6927.7	8298.0	9641.6	9002.8	8136.2	8039.3	7974.4	7985.0
57.5°	5323.3	5403.2	5604.4	6185.7	7972.2	10588.1	11067.1	9555.4	9347.7	9048.6	9099.7
60°	4052.1	4102.1	4206.5	4850.6	7006.5	10834.0	13411.6	11349.3	11217.3	10118.6	10154.7
62.5°	2877.8	2934.2	3006.6	3328.2	5129.5	10140.9	15247.1	13854.5	13382.8	11226.8	11191.8
65°	2337.0	2298.6	2385.9	2536.0	3009.8	7859.3	15660.2	17331.7	16682.2	12686.6	12198.9
67.5°	1921.7	1881.2	1967.5	2234.7	2289.0	4562.1	14171.8	19588.7	19458.9	14274.0	13222.0
69°	1701.3	1680.1	1755.7	2060.1	2197.4	3239.8	12345.8	19902.9	19933.7	15209.8	13379.6
70°	1533.1	1541.6	1615.1	1971.7	2155.9	2671.3	10551.9	19469.5	19731.4	15677.2	13209.3
72.5°	1128.5	1146.6	1248.9	1633.2	2116.5	2266.7	6279.4	17005.9	17469.0	15704.8	12083.9
75°	788.9	780.4	870.9	1229.7	1999.5	2246.5	3688.0	13151.8	13676.7	13574.5	10153.7
77.5°	516.4	530.2	602.6	868.8	1682.2	2229.4	2404.0	9330.7	9671.4	9078.4	6005.7
80°	364.2	363.1	403.5	593.0	1247.8	2142.1	1968.5	5881.2	5795.0	3567.7	1781.2
82.5°	208.7	223.5	270.5	417.4	834.7	1885.5	1811.0	2812.8	2568.0	1016.8	601.6
85°	116.1	121.4	160.8	252.3	487.6	1420.3	1581.0	1279.7	1207.3	424.8	258.7
87.5°	37.3	40.5	67.1	127.7	221.4	670.7	895.4	590.9	545.1	153.3	104.4
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°	4439.6	4439.6	4439.6	4439.6	4439.6	4439.6	4439.6	4439.6	4439.6	4439.6	4439.6
2.5°	4446.0	4458.8	4424.8	4391.7	4361.9	4320.4	4283.1	4252.3	4231.0	4227.8	4217.1
5°	4460.9	4462.0	4397.1	4309.8	4224.6	4130.9	4034.0	3964.8	3899.9	3863.6	3845.6
7.5°	4471.6	4462.0	4344.9	4203.3	4039.3	3869.0	3698.6	3562.4	3456.9	3415.5	3431.4
10°	4467.3	4437.5	4266.1	4039.3	3800.8	3546.4	3301.5	3109.8	2934.2	2843.8	2845.9
12.5°	4443.9	4394.9	4149.0	3855.1	3504.9	3164.2	2789.4	2530.7	2327.4	2207.0	2169.8
15°	4423.7	4338.5	4011.7	3604.9	3169.5	2683.0	2226.2	1906.8	1736.5	1641.7	1640.6
17.5°	4402.4	4284.2	3861.5	3339.9	2784.1	2158.1	1679.0	1435.2	1355.4	1364.9	1349.0
20°	4380.0	4220.3	3705.0	3044.9	2314.6	1609.8	1257.4	1158.4	1180.7	1224.3	1230.7
22.5°	4354.4	4152.2	3536.8	2720.2	1820.6	1211.6	1020.0	1005.1	1062.5	1130.6	1140.2
25°	4315.1	4067.0	3325.0	2380.6	1404.3	976.3	893.2	903.9	960.3	1017.8	1024.2
27.5°	4259.7	3961.6	3110.9	1956.8	1055.1	837.9	816.6	830.4	858.2	893.2	901.8
30°	4185.2	3842.4	2865.0	1590.6	845.4	768.7	760.2	767.6	783.6	798.5	802.7
32.5°	4110.6	3727.4	2616.9	1217.9	753.8	722.9	714.4	714.4	714.4	716.5	717.5
35°	4041.4	3618.8	2350.8	948.6	705.9	686.7	675.0	662.2	660.1	652.6	652.6
37.5°	4003.2	3519.8	2067.6	794.2	670.7	656.9	640.9	619.6	608.0	609.0	606.9
40°	4010.6	3454.8	1809.9	706.9	642.0	627.0	602.6	578.1	570.6	570.6	568.5
42.5°	4094.7	3433.6	1562.9	661.2	614.4	597.3	566.4	544.0	539.8	538.7	540.8
45°	4288.4	3485.7	1341.5	631.3	590.9	565.3	534.5	514.3	510.0	510.0	508.9
47.5°	4666.5	3655.0	1182.9	612.2	573.8	540.8	508.9	488.7	481.2	479.1	479.1
50°	5254.1	4022.3	1064.6	595.2	552.5	518.5	485.5	462.0	450.4	449.3	448.3
52.5°	6070.7	4595.1	1018.9	582.4	529.2	495.1	458.8	436.5	421.6	418.4	416.3
55°	7025.7	5394.7	1081.7	572.8	504.7	468.4	431.2	407.8	393.9	387.5	386.4
57.5°	8131.9	6355.0	1320.2	560.0	482.3	439.7	403.5	380.0	365.2	357.8	355.6
60°	9125.3	7341.9	1736.5	552.5	463.1	408.8	371.6	350.3	336.4	329.0	327.9
62.5°	10216.6	8283.1	2233.7	572.8	454.6	379.0	341.8	322.6	310.9	303.4	303.4
65°	11382.3	9225.3	2562.6	640.9	467.4	355.6	309.8	293.8	283.2	277.9	276.8
67.5°	12168.0	9551.1	2111.2	711.2	499.3	330.0	279.0	266.2	259.8	254.5	254.5
69°	12082.9	9139.1	1557.6	729.3	508.9	317.3	261.9	252.3	243.8	241.7	239.5
70°	11813.5	8669.5	1305.3	717.5	501.5	305.5	251.3	239.5	232.1	229.9	228.9
72.5°	10522.1	7518.6	972.0	623.9	426.9	265.1	222.5	211.8	205.5	202.3	202.3
75°	8741.9	6145.3	759.1	496.1	334.3	223.5	190.6	182.1	176.7	174.6	173.5
77.5°	4899.6	3431.4	545.1	388.6	253.4	181.0	159.7	152.2	146.9	144.8	144.8
80°	1364.9	980.5	320.5	256.6	172.5	137.3	126.7	121.4	114.0	108.6	111.8
82.5°	514.3	424.8	183.1	154.4	109.7	91.6	88.4	84.1	80.9	73.5	73.5
85°	250.2	206.5	117.2	82.0	60.7	47.9	45.8	43.6	41.5	36.2	37.3
87.5°	86.2	91.6	51.1	29.8	18.1	11.7	9.6	5.3	5.3	5.3	5.3
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)