

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: P652281

Luminaire Tested: **GALN-SA3B-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14159.1 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

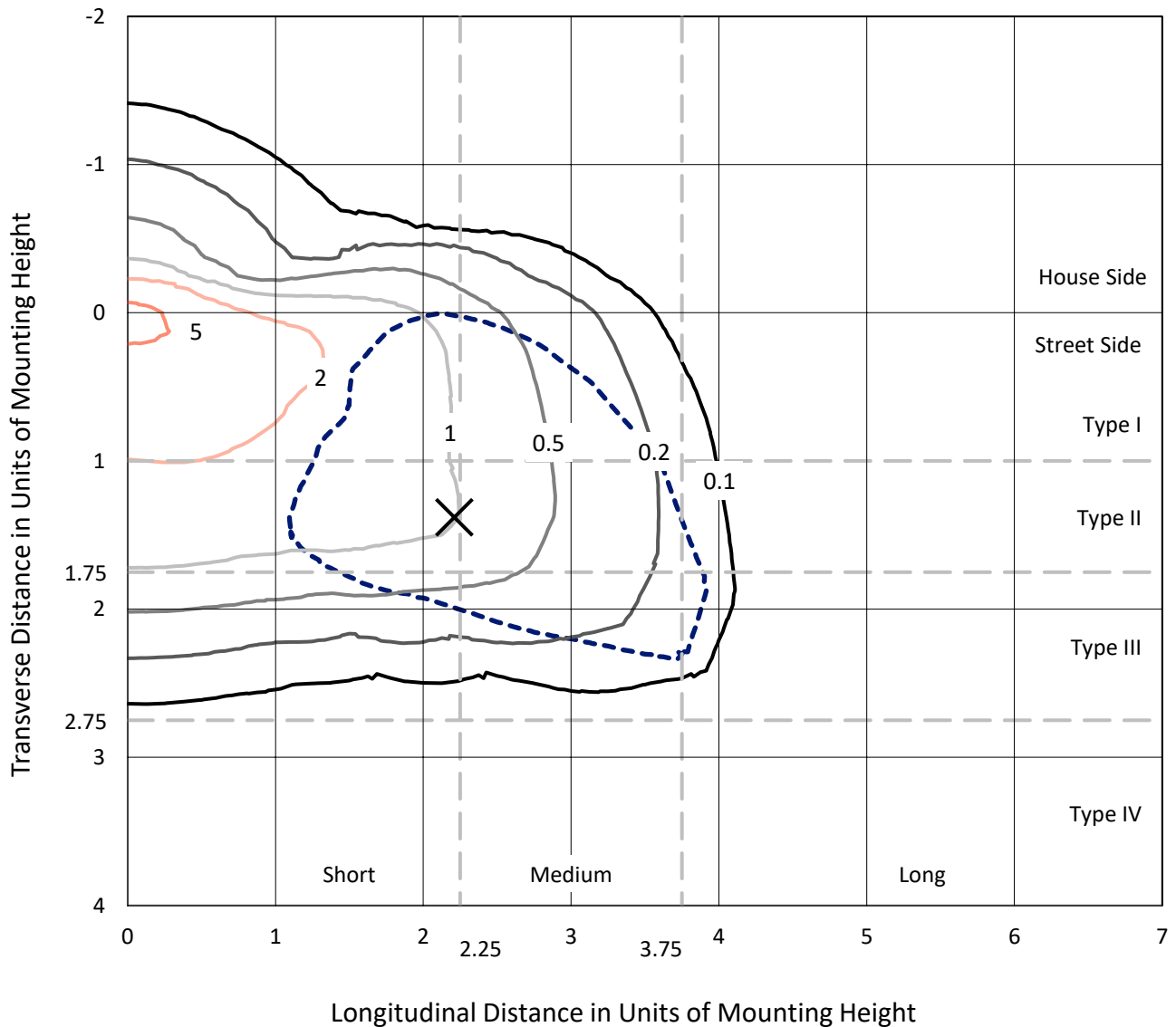
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

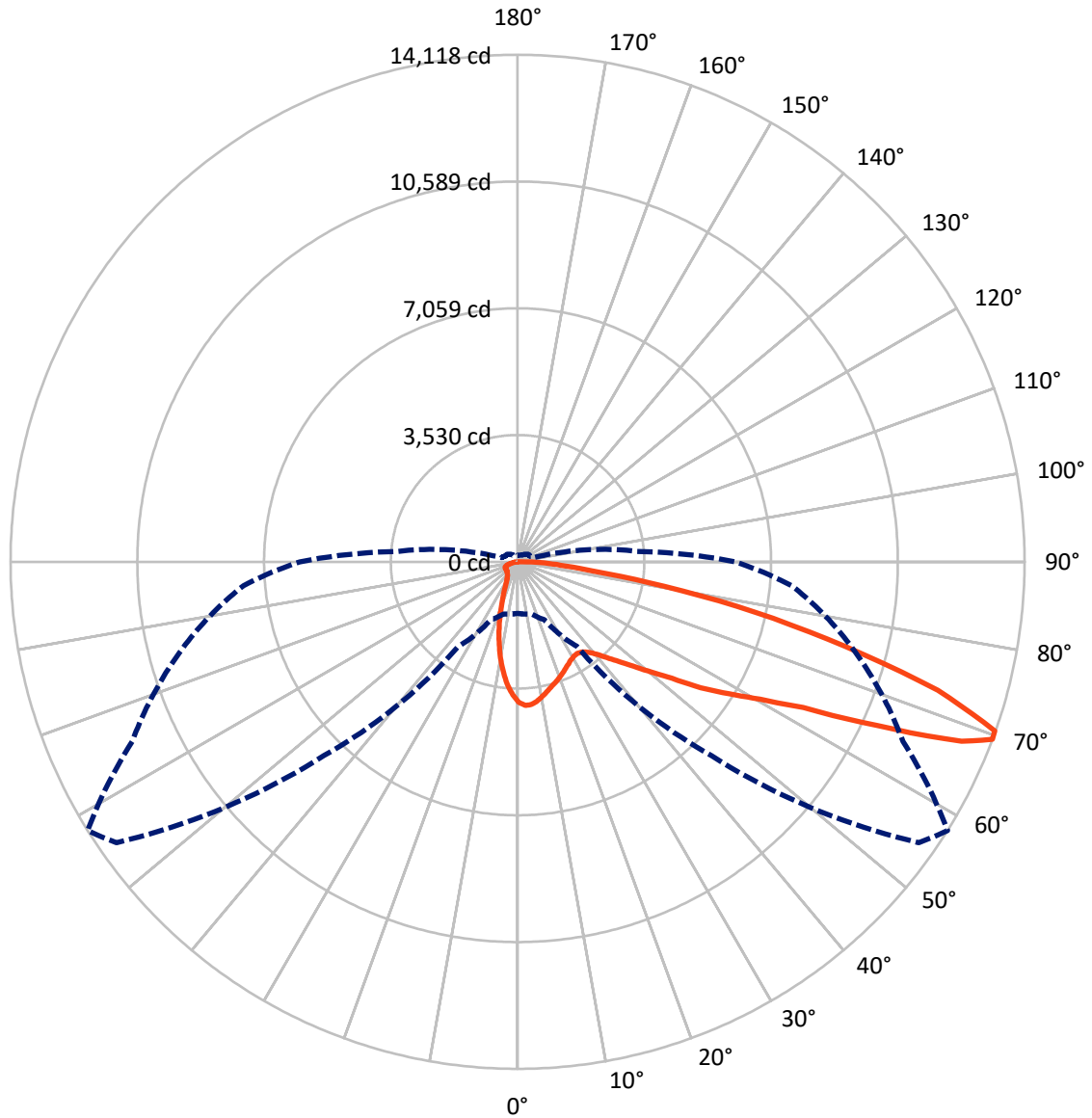
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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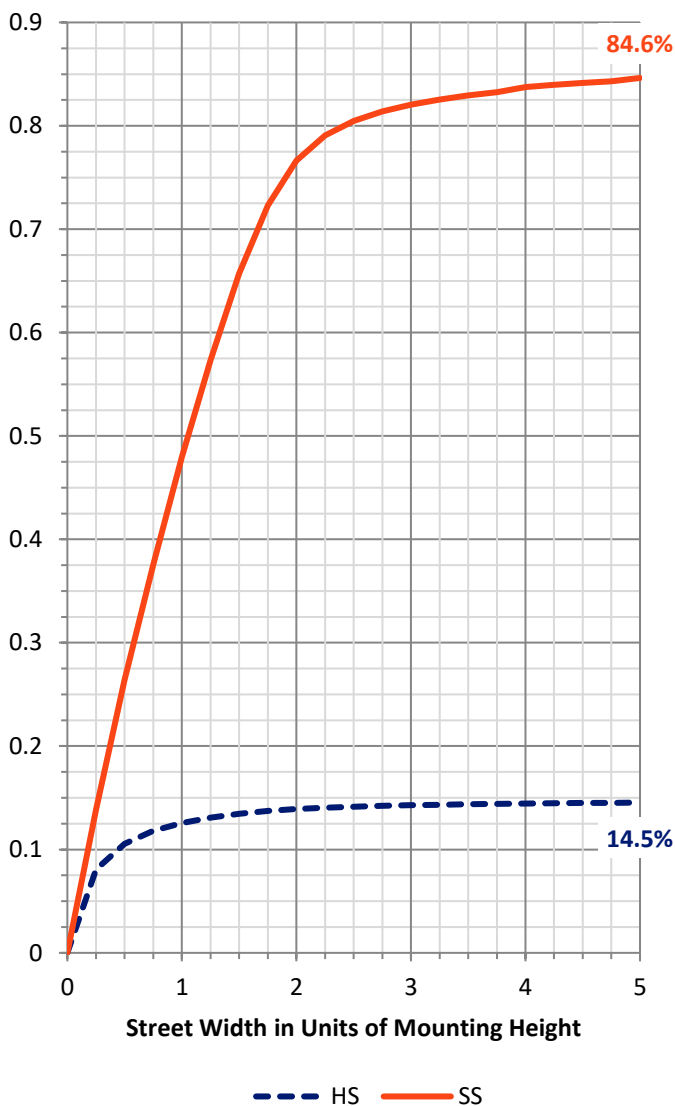
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2075.0	0.0	2075.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	12084.1	0.0	12084.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	14159.1	0.0	14159.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	2.3
10°-20°	729.6	5.2
20°-30°	942.7	6.7
30°-40°	1224.4	8.6
40°-50°	1780.1	12.6
50°-60°	2840.5	20.1
60°-70°	3794.5	26.8
70°-80°	2187.4	15.4
80°-90°	327.6	2.3
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°	14159.1	100.0
0°-180°	14159.1	100.0

Coefficient of Utilization

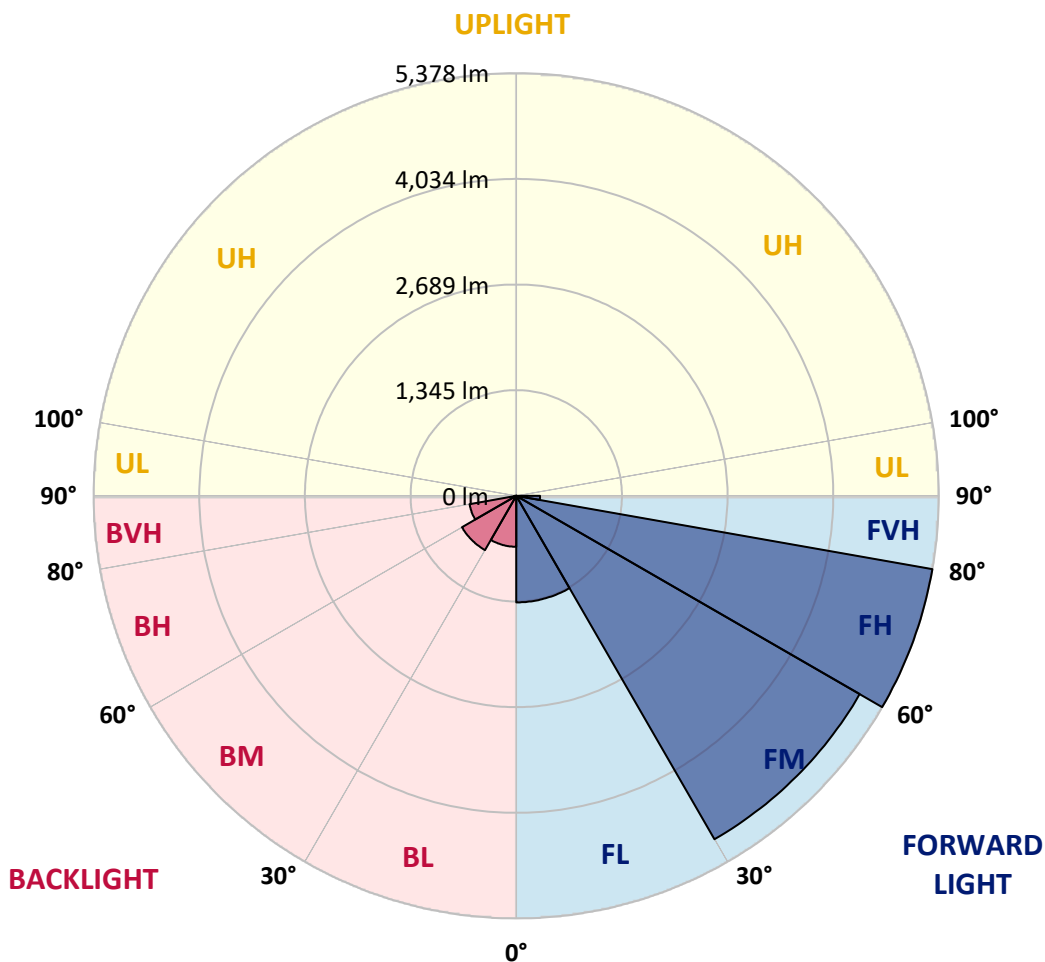


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1356.1	9.6			
FM (30°-60°)	5047.0	35.6			
FH (60°-80°)	5378.5	38.0			G3/7500
FVH (80°-90°)	302.5	2.1			G3/500
BL (0°-30°)	648.6	4.6	B2/1000		
BM (30°-60°)	798.0	5.6	B1/1000		
BH (60°-80°)	603.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	25.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8
2.5°	4058.1	4069.1	4065.9	4061.9	4055.6	4038.3	4009.9	4005.1	3986.9	3948.2	3900.1
5°	3995.7	4005.1	4005.9	4011.5	4019.3	4016.2	3995.7	3993.3	3966.4	3914.4	3833.8
7.5°	3781.6	3794.3	3821.9	3852.7	3880.4	3906.4	3912.8	3916.7	3900.1	3840.1	3732.7
10°	3540.8	3553.5	3566.1	3611.8	3679.8	3744.6	3798.2	3805.4	3809.3	3754.1	3622.9
12.5°	3273.9	3300.0	3326.8	3394.7	3485.5	3587.4	3682.2	3697.2	3724.0	3682.2	3528.2
15°	3047.3	3074.1	3112.8	3173.6	3283.3	3430.3	3563.7	3588.2	3641.1	3619.7	3439.8
17.5°	2890.1	2899.6	2926.4	2996.0	3114.4	3269.1	3447.6	3496.6	3581.1	3575.6	3363.9
20°	2766.1	2778.0	2794.6	2837.2	2960.4	3123.9	3339.4	3402.6	3517.1	3536.1	3288.9
22.5°	2714.1	2722.7	2720.4	2743.3	2826.9	2991.2	3229.7	3304.7	3460.3	3509.2	3219.4
25°	2717.2	2725.1	2713.2	2707.8	2757.5	2874.4	3115.1	3210.8	3414.5	3491.1	3156.3
27.5°	2770.1	2775.6	2753.5	2731.4	2735.4	2801.7	3020.5	3126.2	3375.8	3499.0	3103.4
30°	2841.2	2851.4	2837.2	2810.4	2781.2	2784.3	2959.6	3063.8	3357.6	3526.6	3078.1
32.5°	2932.8	2942.2	2935.9	2914.7	2876.7	2834.8	2944.6	3041.0	3359.2	3582.7	3072.5
35°	3029.1	3048.0	3058.3	3056.8	3025.9	2953.3	3003.9	3083.6	3397.1	3676.6	3104.9
37.5°	3138.1	3153.9	3198.1	3226.5	3198.1	3113.6	3137.3	3192.6	3480.8	3812.4	3176.0
40°	3243.9	3267.6	3332.4	3420.8	3409.8	3335.5	3341.0	3377.4	3628.5	4014.6	3315.0
42.5°	3354.4	3382.9	3495.8	3626.9	3653.0	3595.3	3610.3	3642.7	3838.5	4294.9	3553.5
45°	3496.6	3530.5	3669.5	3833.0	3935.6	3900.1	3942.8	3958.5	4119.6	4659.7	3867.8
47.5°	3679.8	3719.2	3890.6	4094.3	4239.6	4272.0	4346.3	4336.8	4467.9	5091.7	4275.2
50°	3988.5	4010.6	4172.5	4380.2	4580.0	4726.1	4806.7	4821.6	4899.8	5511.8	4730.8
52.5°	4355.7	4375.5	4492.4	4673.9	4924.3	5233.8	5432.9	5383.8	5402.8	6023.5	5263.8
55°	4768.7	4801.9	4876.1	4997.0	5321.5	5777.1	6176.6	6188.5	5978.5	6513.0	5774.7
57.5°	5088.6	5144.6	5271.7	5443.9	5855.3	6381.2	6918.2	6926.1	6657.6	7035.8	6338.5
60°	4927.4	4993.8	5284.3	5703.7	6555.7	7435.4	7804.1	7759.2	7318.6	7631.2	7026.4
62.5°	4232.6	4244.4	4666.9	5322.3	6771.3	8845.7	9122.9	8932.6	8200.6	8386.1	7725.2
65°	2739.3	2816.7	3151.5	4069.9	6062.9	9628.3	11433.4	10993.6	9437.2	9242.9	8310.3
67.5°	1729.3	1709.6	1848.6	2323.9	4170.2	8938.9	13405.2	13335.7	11054.4	9783.9	8170.6
69°	1434.0	1456.1	1503.5	1781.5	2869.6	7632.0	13638.2	14118.2	11838.5	9741.2	7662.8
70°	1300.5	1310.9	1360.6	1579.3	2214.2	6392.3	13255.9	14096.9	12146.5	9562.8	7294.8
72.5°	1032.1	1031.3	1116.6	1314.0	1655.1	3649.0	10884.6	12238.8	11802.2	8732.0	6027.4
75°	784.1	796.8	890.7	1111.8	1524.8	1993.8	7595.7	9425.3	9426.1	6896.9	3761.1
77.5°	565.4	573.3	683.1	933.3	1436.3	1616.4	5059.3	6760.2	6355.1	3160.2	1182.1
80°	370.4	375.1	458.8	739.2	1295.1	1524.8	2999.9	4137.8	2997.5	838.6	390.9
82.5°	202.9	226.6	280.3	478.5	1039.2	1408.8	1823.3	2094.2	1124.5	373.5	203.7
85°	101.8	108.2	157.9	279.5	679.1	1165.5	1269.7	1201.0	580.4	185.6	105.8
87.5°	30.0	37.9	65.5	108.2	275.6	607.3	706.8	634.1	223.5	67.1	22.1
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°	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8
2.5°	3880.4	3866.2	3803.0	3746.2	3694.0	3638.8	3592.2	3551.0	3555.0	3555.8	3514.0
5°	3791.9	3759.5	3639.5	3527.4	3432.6	3312.6	3209.9	3143.6	3110.4	3066.2	3082.0
7.5°	3671.9	3609.5	3442.9	3256.5	3082.0	2926.4	2757.5	2641.4	2567.2	2495.3	2504.8
10°	3547.9	3447.6	3205.2	2958.8	2733.0	2484.2	2268.7	2083.9	1946.5	1895.2	1861.2
12.5°	3420.8	3288.9	2980.9	2653.3	2341.3	2043.6	1738.0	1539.8	1388.2	1307.7	1317.9
15°	3304.7	3144.4	2747.2	2347.7	1942.5	1588.0	1283.2	1094.5	988.7	966.6	979.2
17.5°	3197.3	2987.2	2528.5	2050.7	1577.7	1190.8	964.2	857.6	814.9	803.1	802.3
20°	3086.7	2853.8	2282.9	1733.3	1229.5	923.1	791.2	741.5	733.6	738.3	739.2
22.5°	2974.6	2688.8	2030.2	1418.2	979.2	754.9	691.7	678.4	684.7	695.7	697.3
25°	2871.2	2543.4	1787.0	1141.8	781.8	663.3	632.5	632.5	646.7	663.3	664.1
27.5°	2785.9	2402.9	1544.6	906.5	654.6	596.9	586.7	592.2	612.0	624.6	625.4
30°	2715.6	2271.9	1315.6	726.5	575.7	544.0	541.7	551.2	565.4	577.3	578.0
32.5°	2662.7	2156.6	1101.5	610.4	521.2	503.8	503.0	510.2	518.0	521.2	524.4
35°	2642.2	2061.0	905.8	537.0	484.8	473.8	473.8	473.0	476.2	477.8	479.3
37.5°	2658.7	1987.5	754.1	489.5	458.0	450.1	445.4	440.6	439.1	439.1	439.8
40°	2729.0	1948.8	641.2	458.8	439.1	427.2	418.5	413.0	407.5	409.1	410.7
42.5°	2878.3	1956.0	564.6	438.2	422.4	405.9	393.3	386.9	383.0	387.7	386.9
45°	3116.0	2027.1	515.6	424.0	405.9	384.6	372.7	366.4	366.4	373.5	375.8
47.5°	3448.4	2162.9	489.5	413.0	393.3	367.9	356.2	351.4	353.0	364.8	365.6
50°	3854.3	2399.0	484.8	407.5	386.9	356.2	342.7	338.0	342.0	354.6	356.2
52.5°	4302.1	2703.0	507.7	408.2	381.4	349.0	331.7	324.5	328.5	338.8	342.0
55°	4832.7	3083.6	567.0	411.4	373.5	345.1	323.8	308.0	312.7	319.8	320.6
57.5°	5374.4	3563.7	671.2	412.2	367.2	338.0	310.3	289.8	289.8	294.5	296.9
60°	6036.1	4086.5	808.6	413.0	367.9	327.7	292.2	269.3	266.1	268.4	269.3
62.5°	6693.1	4523.9	831.5	410.7	375.8	317.5	272.4	248.8	243.2	242.5	240.9
65°	6982.9	4442.6	681.5	399.6	384.6	311.1	256.7	229.0	219.5	216.4	216.4
67.5°	6510.7	3758.0	512.5	384.6	379.0	304.8	241.6	212.4	201.3	195.0	195.0
69°	6066.9	3342.6	460.4	374.3	364.8	294.5	232.2	203.7	190.3	183.2	180.8
70°	5724.2	3056.8	438.2	365.6	351.4	282.7	225.1	197.4	182.4	174.5	172.9
72.5°	4568.1	2398.2	383.7	332.4	299.3	237.7	199.8	177.7	163.5	154.7	152.4
75°	2632.8	1299.8	318.2	289.1	240.9	184.8	169.0	154.7	143.7	135.8	133.5
77.5°	810.2	502.2	230.6	228.2	176.9	142.9	135.1	129.5	121.6	112.9	111.3
80°	341.1	255.8	156.3	154.0	117.7	99.5	97.1	96.4	93.2	86.0	83.7
82.5°	187.1	144.5	109.0	94.8	71.1	57.6	60.0	60.8	58.4	51.3	46.6
85°	91.6	79.0	52.9	42.6	32.4	20.5	19.8	23.7	22.1	15.8	17.4
87.5°	18.2	22.1	14.2	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
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)