

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: P646916

Luminaire Tested: **GALN-SA4C-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17049.8 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

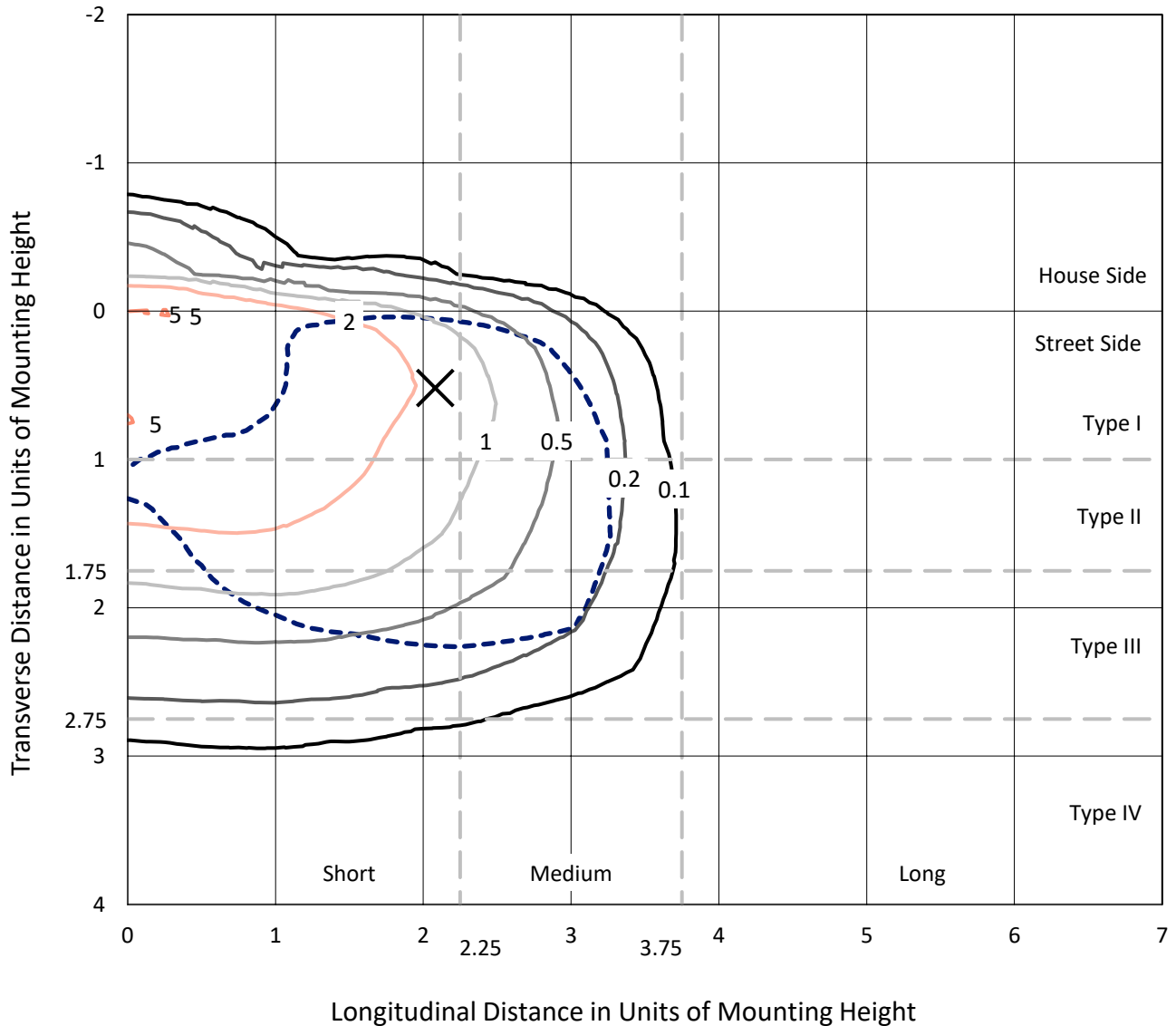
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

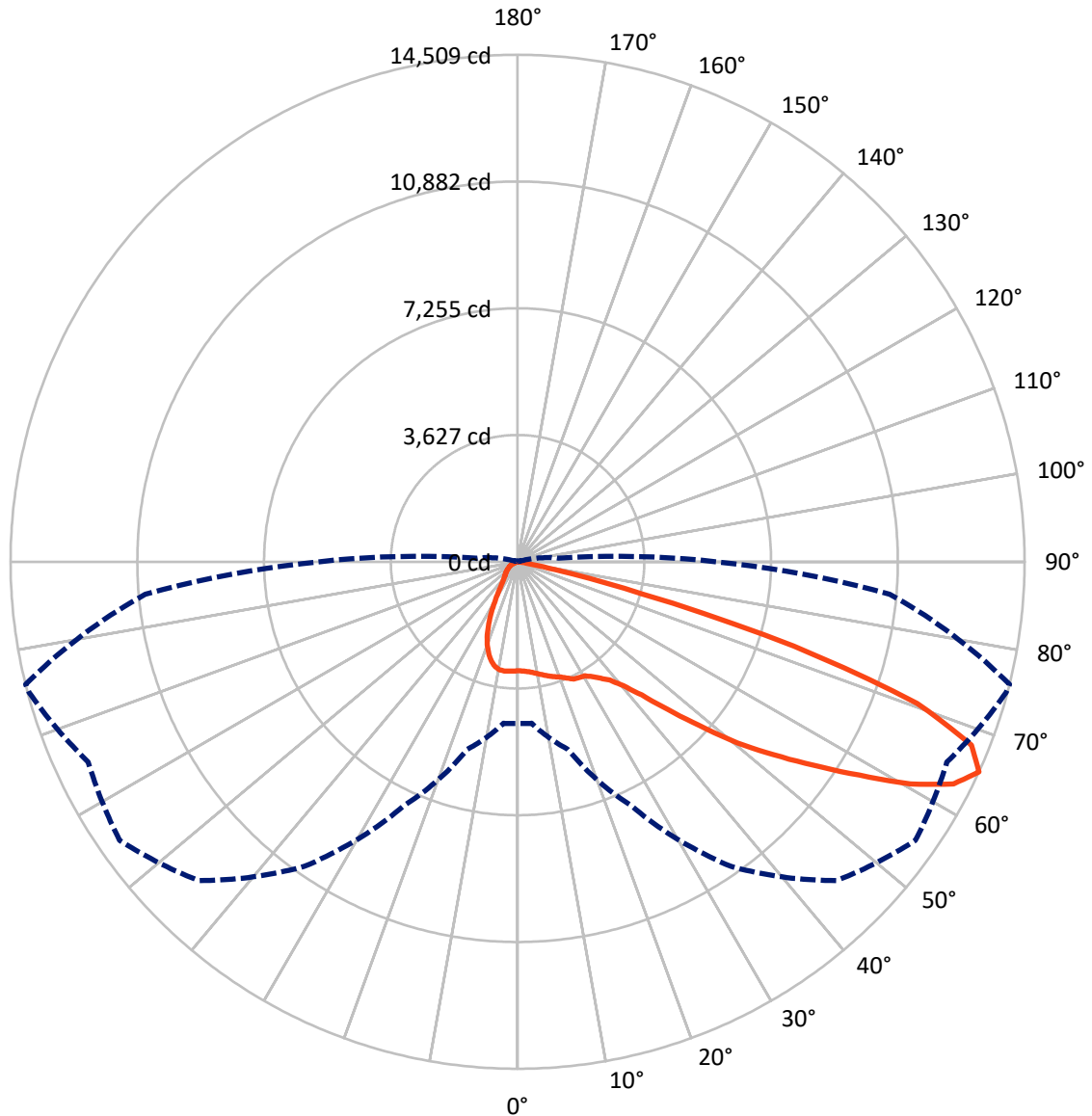
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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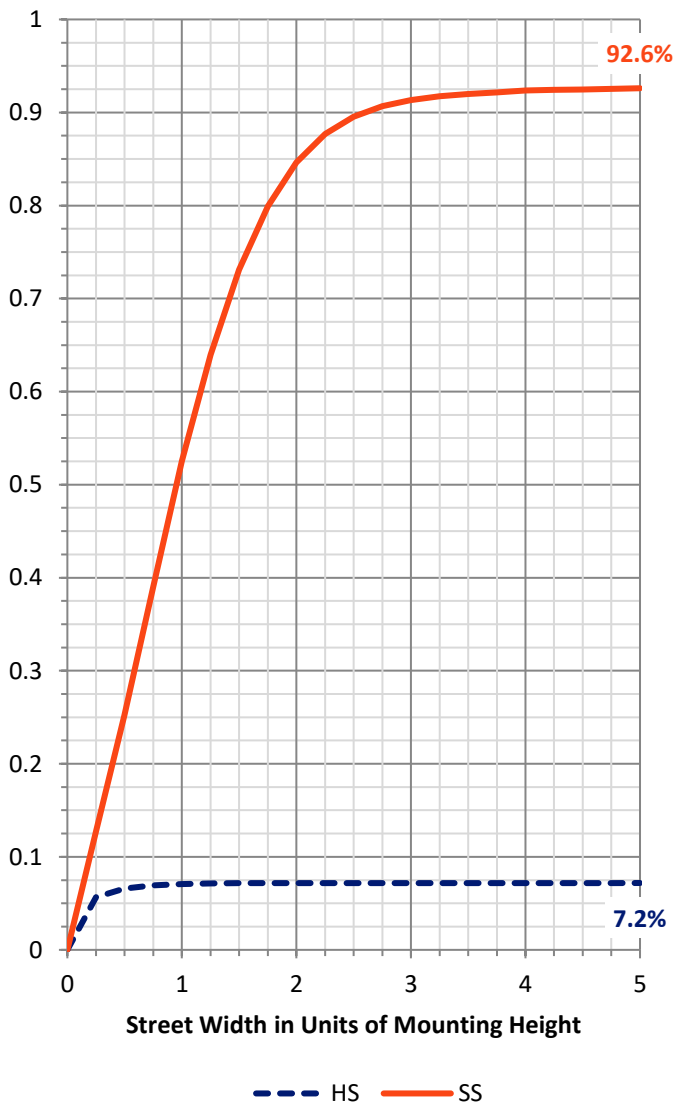
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1231.3	0.0	1231.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15818.5	0.0	15818.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	17049.8	0.0	17049.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.9	1.5
10°-20°	572.1	3.4
20°-30°	921.8	5.4
30°-40°	1602.9	9.4
40°-50°	2648.6	15.5
50°-60°	4091.6	24.0
60°-70°	4996.4	29.3
70°-80°	1896.3	11.1
80°-90°	63.3	0.4
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°	17049.8	100.0
0°-180°	17049.8	100.0

Coefficient of Utilization

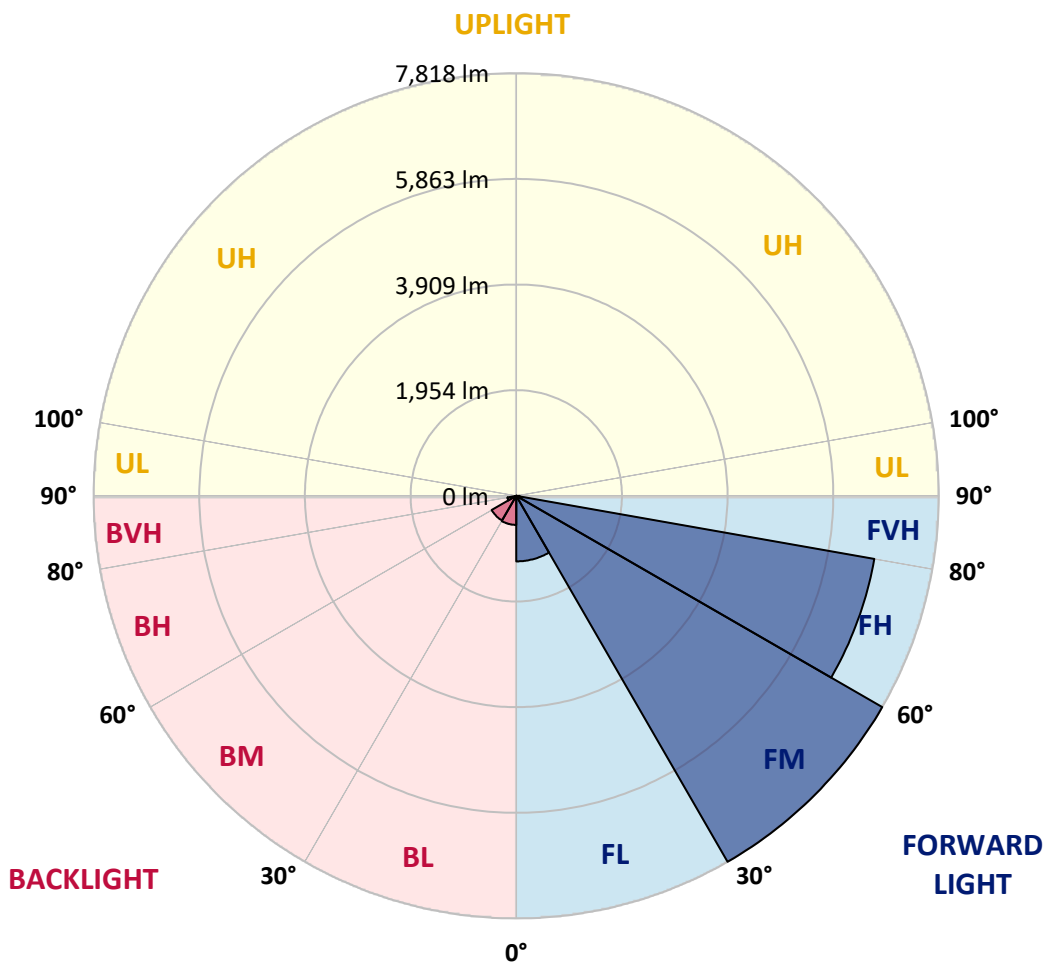


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1212.9	7.1			
FM (30°-60°)	7817.6	45.9			
FH (60°-80°)	6725.6	39.4			G3/7500
FVH (80°-90°)	62.4	0.4			G1/100
BL (0°-30°)	537.9	3.2	B2/1000		
BM (30°-60°)	525.5	3.1	B1/1000		
BH (60°-80°)	167.1	1.0	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
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°	65°	75°	76°	85°
0°	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9
2.5°	2980.5	2981.7	2988.9	3007.0	3034.7	3057.5	3076.8	3108.1	3129.8	3132.2	3139.4
5°	2774.7	2760.2	2774.7	2821.6	2863.7	2927.6	3005.8	3084.1	3153.8	3158.7	3192.4
7.5°	2543.6	2555.6	2578.5	2626.7	2706.0	2803.5	2916.8	3056.4	3188.8	3200.8	3267.0
10°	2308.8	2335.3	2372.6	2446.0	2556.8	2683.2	2837.3	3037.1	3244.1	3261.0	3375.4
12.5°	2092.2	2104.2	2150.0	2248.6	2385.9	2564.0	2777.1	3026.3	3305.5	3326.0	3490.9
15°	1926.0	1941.7	1981.4	2070.5	2223.3	2452.0	2727.7	3022.7	3365.7	3394.6	3606.5
17.5°	1894.7	1904.3	1921.2	1981.4	2115.0	2363.0	2683.2	3021.4	3423.5	3458.4	3713.6
20°	2023.5	2015.1	1998.2	1992.3	2065.6	2294.3	2650.7	3031.1	3478.9	3518.6	3826.8
22.5°	2346.1	2357.0	2258.3	2141.5	2117.4	2283.5	2645.9	3076.8	3566.7	3613.7	3953.1
25°	3031.1	2948.0	2794.0	2514.7	2304.0	2349.8	2700.0	3185.2	3669.1	3720.8	4067.5
27.5°	3788.2	3762.9	3523.4	3063.6	2671.1	2489.4	2796.3	3268.2	3702.8	3755.7	4132.5
30°	4532.2	4562.3	4287.8	3779.9	3204.4	2748.2	2886.6	3299.5	3732.9	3788.2	4215.6
32.5°	5221.9	5258.1	5017.3	4514.2	3832.8	3196.0	3042.0	3421.1	3859.3	3915.9	4354.0
35°	5764.8	5769.6	5587.9	5187.1	4518.9	3740.1	3377.8	3634.1	4030.2	4096.4	4500.9
37.5°	6263.2	6255.9	6042.9	5697.4	5090.8	4280.6	3800.3	3879.8	4225.2	4293.8	4712.7
40°	6632.7	6637.6	6569.0	6244.0	5624.0	4780.1	4134.9	4109.7	4552.7	4659.8	5020.9
42.5°	6879.5	6924.1	6957.7	6792.8	6294.5	5395.3	4648.9	4602.0	5120.8	5209.9	5456.6
45°	7079.3	7158.8	7327.3	7318.9	6938.5	6150.1	5354.4	5258.1	5926.1	6021.3	6011.6
47.5°	7225.0	7305.6	7584.9	7753.4	7544.0	6881.9	6241.5	6158.5	6888.0	6991.5	6624.3
50°	7299.7	7395.9	7752.2	8078.4	8017.1	7587.3	7252.7	7257.5	8049.6	8149.5	7334.5
52.5°	7125.1	7250.3	7841.4	8428.8	8547.9	8262.7	8200.0	8358.9	9083.6	9169.1	7976.2
55°	6567.7	6725.4	7719.8	8727.3	9163.1	9059.5	9276.2	9518.1	10213.9	10269.4	8634.6
57.5°	6215.1	6382.4	7361.1	8981.3	9902.2	10061.1	10404.1	10581.1	11380.4	11521.2	9390.6
60°	5917.7	6048.9	7066.1	9035.4	10653.3	11286.5	11620.0	11802.9	12820.1	12911.6	10222.4
62.5°	5423.0	5573.5	6567.7	8657.5	11031.3	12267.6	12958.6	12876.7	13933.6	13997.4	10732.7
65°	4627.3	4640.5	5556.6	7707.7	10641.3	12904.4	13898.6	13555.6	14465.7	14509.0	10693.0
67.5°	3453.6	3581.2	4274.6	6058.5	8988.5	12360.3	14203.2	13573.7	14129.8	14009.4	9844.4
70°	2224.6	2322.1	2897.5	4201.1	6481.0	10315.1	13193.2	12643.2	12401.2	12134.0	8058.0
72.5°	1026.8	1152.0	1721.3	2400.3	3843.6	7347.8	10709.9	10271.7	8925.9	8266.3	5122.0
75°	447.8	479.1	849.9	1266.3	1802.1	3885.8	7061.3	6376.4	4031.4	3682.3	2050.1
77.5°	273.3	293.7	445.4	678.9	707.8	1480.7	3803.9	2781.9	1245.9	1099.0	556.2
80°	185.4	208.3	323.8	355.1	241.9	412.9	1427.6	742.8	251.6	240.8	119.2
82.5°	90.3	114.4	239.5	198.6	104.8	132.4	415.3	158.9	73.4	68.6	42.1
85°	13.2	22.9	134.8	130.0	47.0	31.3	73.4	39.7	25.3	24.0	19.3
87.5°	0.0	0.0	45.7	20.4	4.8	4.8	8.5	8.5	9.6	8.5	9.6
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°	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9
2.5°	3143.0	3149.1	3126.2	3093.7	3058.8	3023.9	2974.5	2930.0	2903.5	2919.1	2880.6
5°	3199.6	3194.8	3134.6	3035.9	2904.7	2747.0	2590.5	2456.9	2413.5	2348.5	2341.3
7.5°	3277.9	3264.6	3137.0	2910.7	2614.6	2318.5	2029.5	1838.2	1728.6	1635.9	1638.3
10°	3387.4	3348.9	3109.3	2690.4	2202.9	1756.3	1387.9	1135.1	1025.6	990.7	963.0
12.5°	3500.6	3425.9	3032.3	2393.1	1715.4	1200.2	843.8	689.7	622.3	600.7	598.3
15°	3601.6	3483.7	2897.5	2035.6	1247.1	766.8	575.4	524.8	516.4	517.6	516.4
17.5°	3701.6	3529.5	2710.9	1656.4	847.4	550.1	494.8	482.7	486.3	491.1	489.9
20°	3784.6	3539.1	2472.6	1263.9	599.5	482.7	464.6	462.3	465.9	469.5	469.5
22.5°	3874.9	3546.3	2189.7	875.2	489.9	449.0	439.3	439.3	444.2	449.0	450.2
25°	3942.3	3506.6	1851.4	628.4	432.1	416.5	411.7	412.9	417.7	420.1	418.9
27.5°	3953.1	3394.6	1492.6	481.5	392.4	376.8	371.9	376.8	370.8	374.4	371.9
30°	3962.8	3252.6	1129.2	405.7	356.3	332.2	325.0	317.8	313.0	306.9	305.8
32.5°	3992.9	3085.3	824.6	364.7	322.6	296.1	279.3	258.8	243.2	238.3	237.2
35°	4006.1	2884.3	605.5	332.2	292.5	263.6	233.6	204.7	181.7	173.4	179.4
37.5°	4056.7	2689.2	469.5	308.2	266.1	229.9	191.4	155.3	133.6	128.8	131.2
40°	4160.2	2477.3	393.6	287.7	243.2	198.6	151.7	116.7	102.3	97.5	96.3
42.5°	4326.3	2266.7	350.3	268.4	220.3	167.3	119.2	91.5	79.5	75.9	75.9
45°	4528.6	2064.5	320.2	248.0	196.2	134.8	93.9	73.4	66.2	63.8	63.8
47.5°	4794.6	1887.5	295.0	227.5	169.8	107.1	75.9	63.8	59.0	60.2	61.4
50°	5064.2	1756.3	267.2	204.7	139.6	87.9	65.0	56.6	55.4	56.6	56.6
52.5°	5267.7	1679.2	229.9	173.4	109.5	73.4	57.8	52.9	51.8	49.3	49.3
55°	5542.2	1662.4	183.0	140.9	86.7	61.4	51.8	48.2	44.6	42.1	41.0
57.5°	5894.8	1681.6	140.9	109.5	67.4	50.6	45.7	39.7	34.9	30.1	30.1
60°	6113.9	1638.3	109.5	84.3	49.3	41.0	34.9	28.9	22.9	19.3	18.1
62.5°	6044.1	1455.4	86.7	62.6	34.9	30.1	22.9	19.3	13.2	9.6	8.5
65°	5684.2	1174.9	69.8	43.3	25.3	18.1	12.1	12.1	6.0	1.2	0.0
67.5°	4975.2	870.3	55.4	28.9	14.4	8.5	6.0	3.6	0.0	0.0	0.0
70°	4049.4	628.4	43.3	18.1	8.5	6.0	2.4	1.2	0.0	0.0	0.0
72.5°	2571.2	359.9	33.7	10.8	6.0	2.4	0.0	0.0	0.0	0.0	0.0
75°	994.3	140.9	22.9	7.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	281.6	66.2	13.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	73.4	28.9	7.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.9	12.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.4	4.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.6	1.2	0.0	0.0	0.0	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)