

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: P647592

Luminaire Tested: **GALN-SA8D-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36487 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

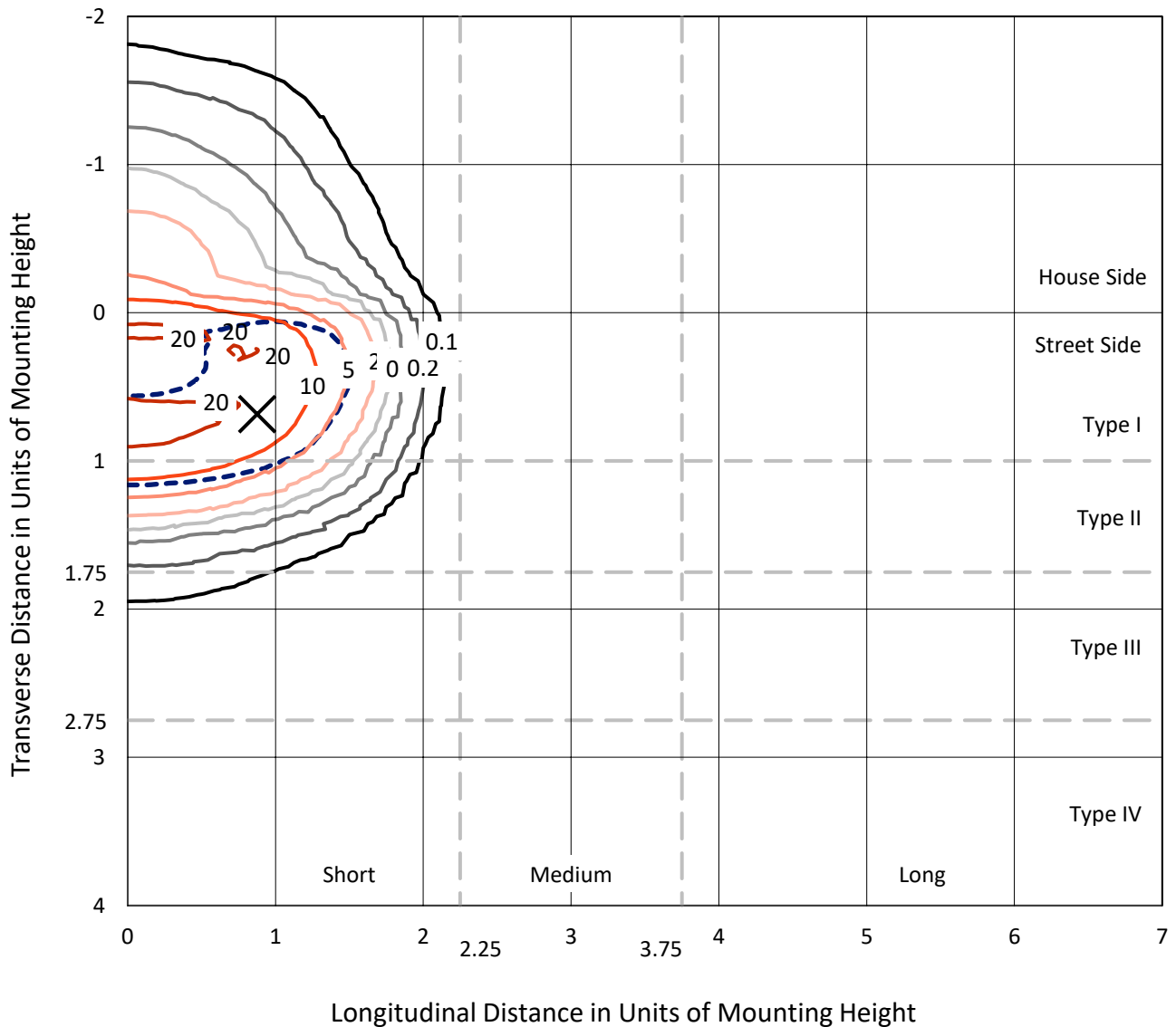
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

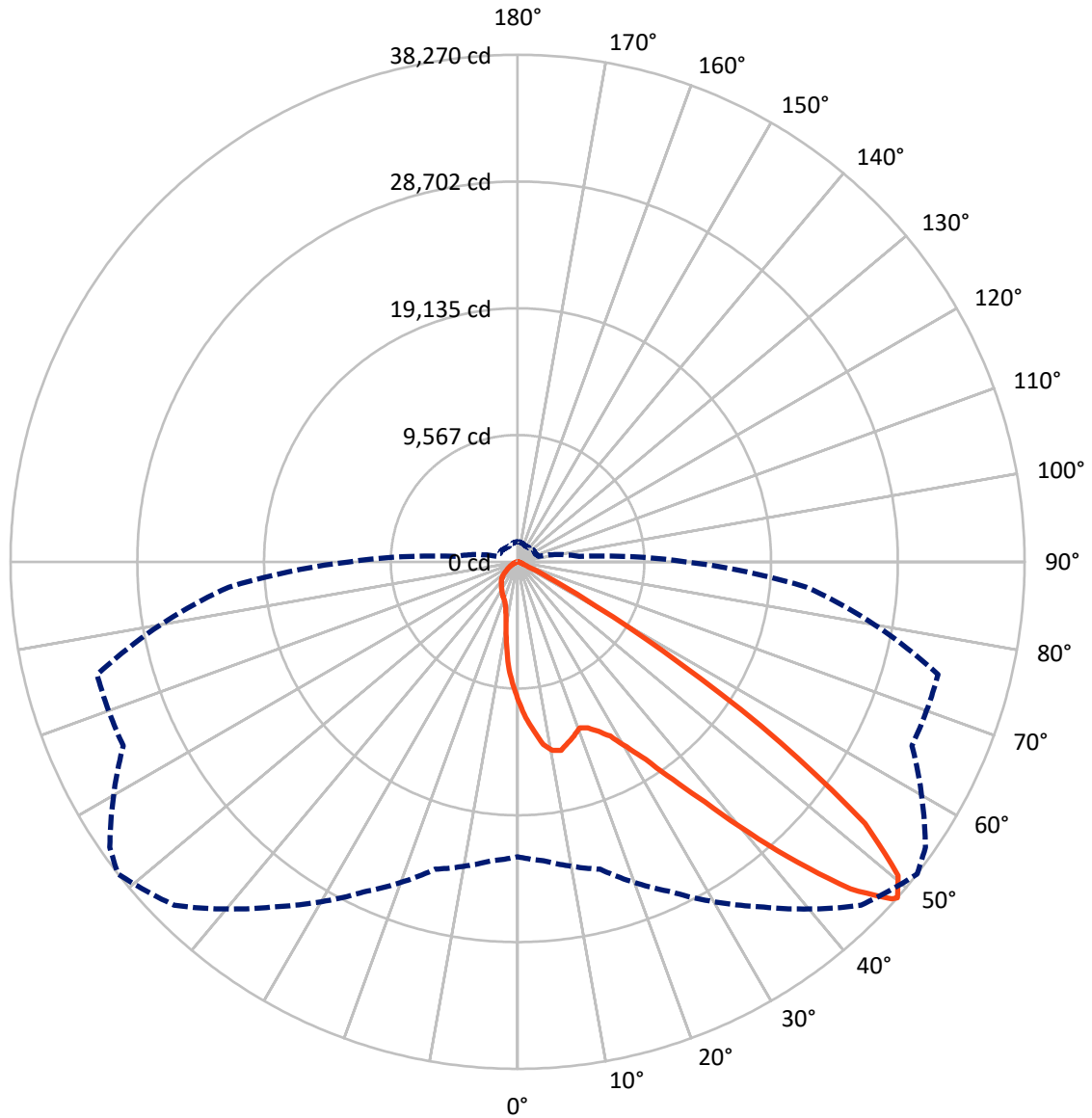
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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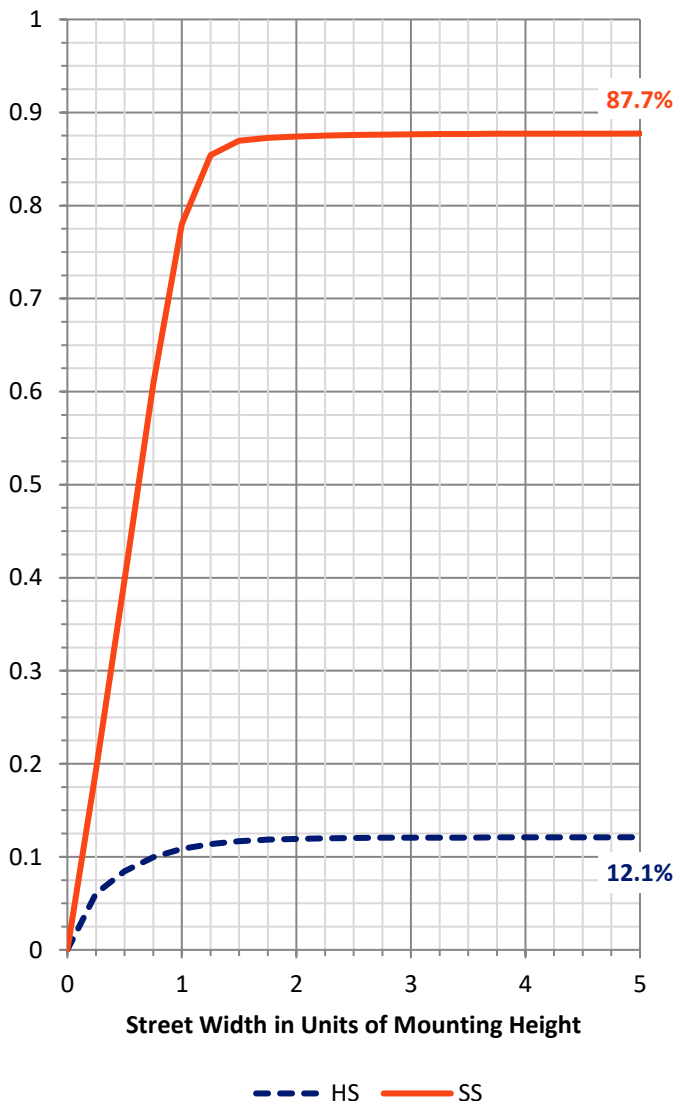
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4442.6	0.0	4442.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	32044.4	0.0	32044.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	36487.0	0.0	36487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	964.4	2.6
10°-20°	2520.4	6.9
20°-30°	4303.3	11.8
30°-40°	7924.6	21.7
40°-50°	12306.8	33.7
50°-60°	7406.6	20.3
60°-70°	856.7	2.3
70°-80°	165.8	0.5
80°-90°	38.4	0.1
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°	36487.0	100.0
0°-180°	36487.0	100.0

Coefficient of Utilization

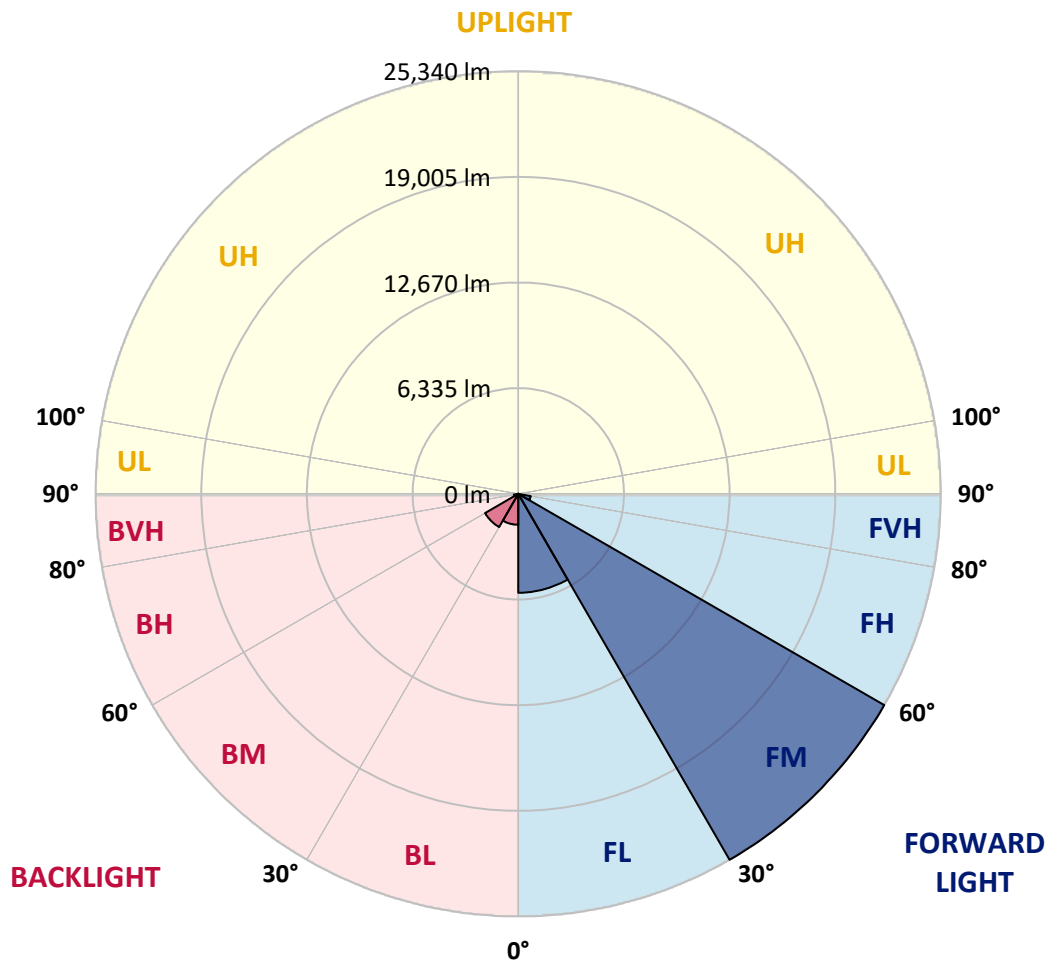


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5932.3	16.3			
FM (30°-60°)	25339.5	69.4			
FH (60°-80°)	754.3	2.1			G1/1800
FVH (80°-90°)	18.3	0.1			G1/100
BL (0°-30°)	1855.8	5.1	B3/2500		
BM (30°-60°)	2298.5	6.3	B2/2500		
BH (60°-80°)	268.1	0.7	B1/500		G1/500
BVH (80°-90°)	20.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10536.8	10536.8	10536.8	10536.8	10536.8	10536.8	10536.8	10536.8	10536.8	10536.8	10536.8
2.5°	12770.8	12478.3	12504.8	12313.4	12201.6	12020.9	11776.2	11728.3	11462.3	11100.7	10733.7
5°	13919.7	13850.6	13941.0	13664.4	13675.0	13377.2	12802.8	12813.3	12201.6	11611.3	11042.2
7.5°	13994.2	13834.6	13925.0	14169.7	14313.3	14260.1	13935.7	13653.7	13074.0	12207.0	11377.2
10°	12531.4	12834.6	12930.4	13334.6	13909.1	14515.4	14478.2	14494.1	14010.1	12877.2	11664.4
12.5°	11653.9	11451.7	11776.2	12020.9	12887.8	14063.3	14600.5	14717.5	14754.8	13526.1	11951.7
15°	11254.9	11254.9	11308.1	11377.2	12004.9	13090.0	14185.6	14526.1	15329.2	14377.1	12403.8
17.5°	11504.9	11494.3	11568.7	11425.1	11659.1	12494.3	13802.6	14190.9	15972.8	15212.2	12760.2
20°	12265.5	12302.7	12254.9	11840.0	11856.0	12483.6	13377.2	13988.8	16408.9	15935.6	13233.6
22.5°	13324.0	13345.2	13074.0	12621.9	12488.9	12797.4	13621.9	14089.9	16760.0	16802.6	13377.2
25°	14547.4	14462.2	14409.1	13770.8	13366.5	13632.5	14175.0	14446.3	16978.1	17547.2	13786.8
27.5°	16244.1	16073.9	15749.4	15180.3	14882.4	14504.8	14893.1	15339.8	17600.4	18589.8	14233.5
30°	18749.3	18600.4	17967.4	17233.4	16451.5	16079.2	16201.5	16446.2	18722.7	19797.1	14823.9
32.5°	22520.4	22206.7	21291.7	19892.9	18829.1	17802.5	17770.7	18031.2	19728.0	21467.3	15526.0
35°	26674.5	26578.8	25233.1	23791.7	21733.3	20148.2	20174.8	20313.1	21653.5	23658.7	16446.2
37.5°	29435.1	29961.7	29105.3	27557.5	25828.8	23563.0	22988.5	23036.4	24297.0	26254.4	18105.7
40°	31568.0	31121.2	31222.3	30860.5	29679.8	28137.3	26866.1	26616.0	27355.4	29126.6	19754.6
42.5°	30637.1	30658.4	31280.8	32137.1	32429.7	32317.9	31020.1	30546.7	29972.3	31477.5	21323.7
45°	28009.6	28557.4	29365.9	31631.8	33621.1	35488.1	35232.7	34445.5	31780.7	33339.2	22227.9
47.5°	23818.2	23797.0	25121.4	28068.1	32488.2	36860.4	38019.9	37466.7	33062.6	33131.8	22041.8
48°	22270.5	22653.4	24020.4	27488.3	31770.1	36658.2	38269.8	37573.1	32844.5	32855.1	21882.2
50°	16462.2	16393.0	18095.1	22350.3	28376.6	34445.5	37216.7	37759.2	32839.2	31456.3	20765.2
52.5°	8696.5	8994.3	10233.7	14052.7	20063.1	28190.4	32828.6	33674.3	31679.7	29169.1	19158.8
55°	3696.7	3340.3	4292.4	6345.5	11286.8	18834.4	24084.2	25967.1	26786.3	25812.8	16760.0
57.5°	1319.1	1441.4	1659.5	2388.2	4744.5	10308.1	14361.2	15823.9	18557.8	18940.8	11419.8
60°	845.7	861.7	930.8	1095.7	1781.9	3973.3	6813.6	7978.5	9217.7	9515.6	5329.6
62.5°	654.2	659.5	691.5	718.1	845.7	1542.5	2558.5	3031.8	3148.8	2707.4	1398.9
65°	547.9	553.2	563.8	563.8	601.0	723.4	893.6	984.0	957.4	946.8	792.6
67.5°	420.2	430.8	452.1	452.1	473.4	441.5	494.7	526.6	595.7	723.4	675.5
70°	329.8	335.1	351.0	361.7	361.7	319.2	356.3	388.3	436.1	537.2	531.9
72.5°	255.3	266.0	276.6	276.6	260.7	218.1	255.3	281.9	313.8	372.3	361.7
75°	196.8	196.8	202.1	164.9	127.6	111.7	154.3	186.2	234.0	244.7	202.1
77.5°	53.2	58.5	53.2	47.8	53.2	79.8	101.1	117.0	148.9	148.9	133.0
80°	0.0	5.3	16.0	31.9	53.2	74.5	90.4	101.1	117.0	127.6	122.3
82.5°	0.0	5.3	16.0	31.9	47.8	58.5	79.8	85.1	95.8	111.7	111.7
85°	0.0	5.3	10.6	21.3	31.9	37.3	37.3	31.9	31.9	26.6	21.3
87.5°	0.0	0.0	5.3	10.6	10.6	16.0	16.0	16.0	16.0	16.0	16.0
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°	10536.8	10536.8	10536.8	10536.8	10536.8	10536.8	10536.8	10536.8	10536.8	10536.8	10536.8
2.5°	10590.0	10425.2	10175.2	9781.5	9403.9	9159.2	8925.2	8664.6	8521.0	8510.3	8430.6
5°	10717.7	10345.4	9749.6	9074.1	8350.8	7728.4	7100.8	6691.2	6324.2	6122.1	6084.8
7.5°	10786.8	10302.8	9340.1	8207.2	6973.2	5957.2	5255.1	4739.2	4537.1	4388.2	4382.8
10°	10930.4	10228.3	8728.4	7058.3	5531.7	4505.1	4021.1	3787.1	3675.4	3632.8	3569.0
12.5°	11036.9	10090.1	8100.8	5877.4	4372.2	3733.9	3521.2	3468.0	3473.3	3494.5	3468.0
15°	11185.8	9967.7	7255.0	4824.3	3670.1	3361.6	3361.6	3372.2	3446.7	3457.3	3452.0
17.5°	11175.1	9728.4	6382.8	3973.3	3244.6	3202.0	3218.0	3319.1	3366.9	3382.9	3345.6
20°	11302.8	9505.0	5483.8	3393.5	3005.2	3069.0	3175.4	3202.0	3260.5	3271.1	3228.6
22.5°	11265.6	8946.5	4648.7	2936.1	2824.4	2946.7	3053.1	3085.0	3069.0	3037.1	3031.8
25°	11196.4	8467.8	3882.8	2632.9	2691.4	2824.4	2925.4	2866.9	2835.0	2840.3	2845.7
27.5°	11074.0	7861.4	3249.8	2420.1	2510.5	2707.4	2702.1	2680.8	2712.7	2686.1	2712.7
30°	11052.7	7255.0	2728.6	2228.7	2377.6	2521.2	2531.8	2569.0	2606.3	2558.5	2606.3
32.5°	11084.7	6590.2	2356.3	2111.6	2297.8	2303.1	2420.1	2457.4	2430.7	2324.4	2335.0
35°	11329.4	6079.5	2085.1	2047.8	2170.2	2175.5	2287.1	2239.3	2122.2	2058.4	2095.7
37.5°	11845.3	5654.0	1957.3	1989.3	1999.9	2069.1	2074.4	1978.6	1989.3	1984.0	2005.3
40°	12504.8	5329.6	1867.0	1936.1	1925.5	1973.3	1781.9	1835.0	1882.9	1898.9	1909.5
42.5°	12957.0	5095.5	1808.4	1851.0	1829.7	1744.6	1638.3	1691.4	1728.6	1787.2	1797.8
45°	13159.1	4909.4	1739.3	1702.1	1702.1	1547.8	1505.2	1515.9	1601.0	1664.8	1654.2
47.5°	12829.3	4728.5	1617.0	1505.2	1542.5	1414.8	1367.0	1367.0	1457.4	1537.2	1521.2
48°	12701.7	4654.1	1622.3	1462.7	1489.3	1393.6	1345.7	1335.1	1436.1	1510.6	1510.6
50°	12068.7	4377.5	1484.0	1345.7	1292.5	1281.8	1250.0	1260.6	1324.4	1393.6	1393.6
52.5°	10834.7	3781.8	1255.3	1154.2	1058.5	1122.3	1138.2	1116.9	1148.9	1212.7	1207.4
55°	9042.2	2904.1	1005.3	957.4	882.9	952.1	984.0	957.4	925.5	973.3	973.3
57.5°	5792.3	1563.8	803.1	813.8	739.3	808.4	835.1	771.3	712.8	750.0	744.6
60°	2611.6	936.2	659.5	643.6	595.7	675.5	718.1	643.6	563.8	590.4	617.0
62.5°	978.7	664.8	499.9	489.4	478.7	553.2	574.4	515.9	436.1	452.1	457.4
65°	718.1	585.1	398.9	361.7	383.0	436.1	425.5	367.0	313.8	313.8	324.5
67.5°	611.7	510.6	324.5	281.9	281.9	287.2	266.0	234.0	218.1	228.7	239.4
70°	478.7	404.3	255.3	218.1	196.8	175.5	154.3	148.9	133.0	148.9	143.6
72.5°	308.5	271.2	196.8	164.9	148.9	122.3	101.1	95.8	79.8	74.5	74.5
75°	164.9	164.9	154.3	133.0	117.0	95.8	79.8	63.8	42.5	31.9	31.9
77.5°	117.0	127.6	138.3	127.6	106.4	79.8	63.8	42.5	21.3	10.6	10.6
80°	111.7	127.6	138.3	122.3	106.4	79.8	58.5	31.9	16.0	5.3	5.3
82.5°	101.1	117.0	127.6	111.7	95.8	69.1	53.2	31.9	16.0	5.3	5.3
85°	21.3	26.6	31.9	31.9	37.3	47.8	37.3	26.6	10.6	5.3	5.3
87.5°	16.0	16.0	16.0	16.0	16.0	16.0	10.6	10.6	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)