

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: P648417

Luminaire Tested: **GALN-SA5B-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648417
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-SA5B-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA 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: 16644.2 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

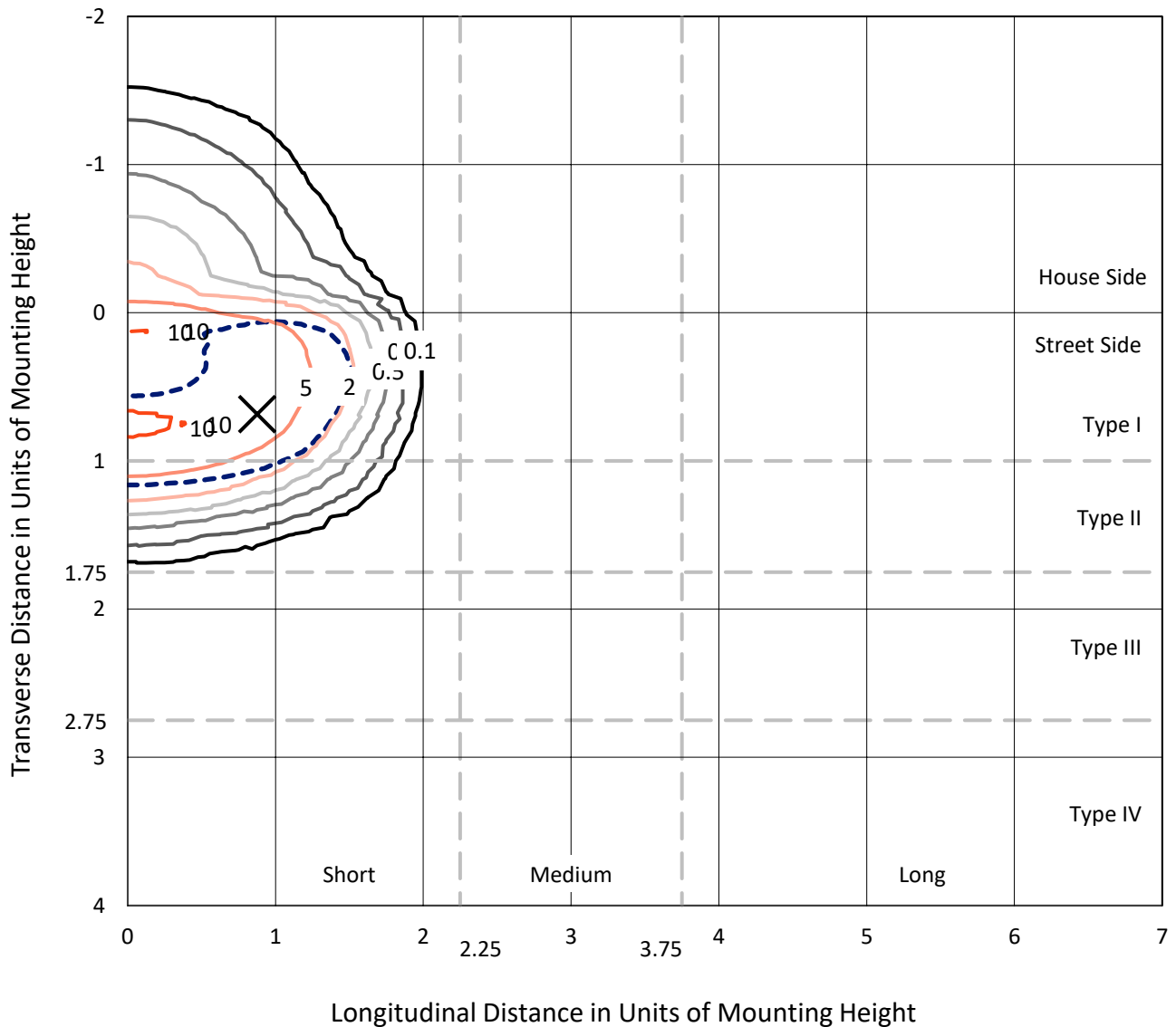
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

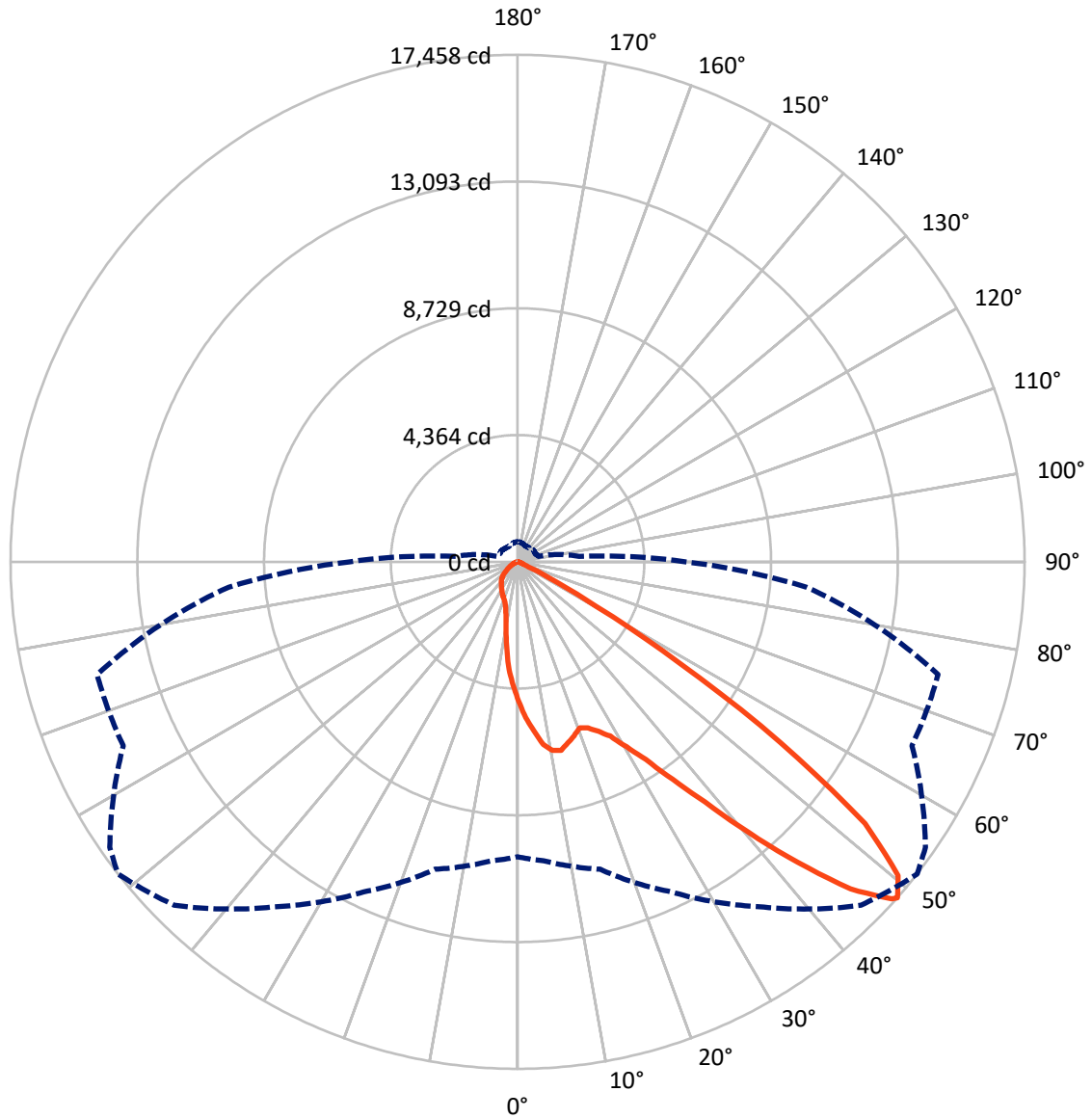
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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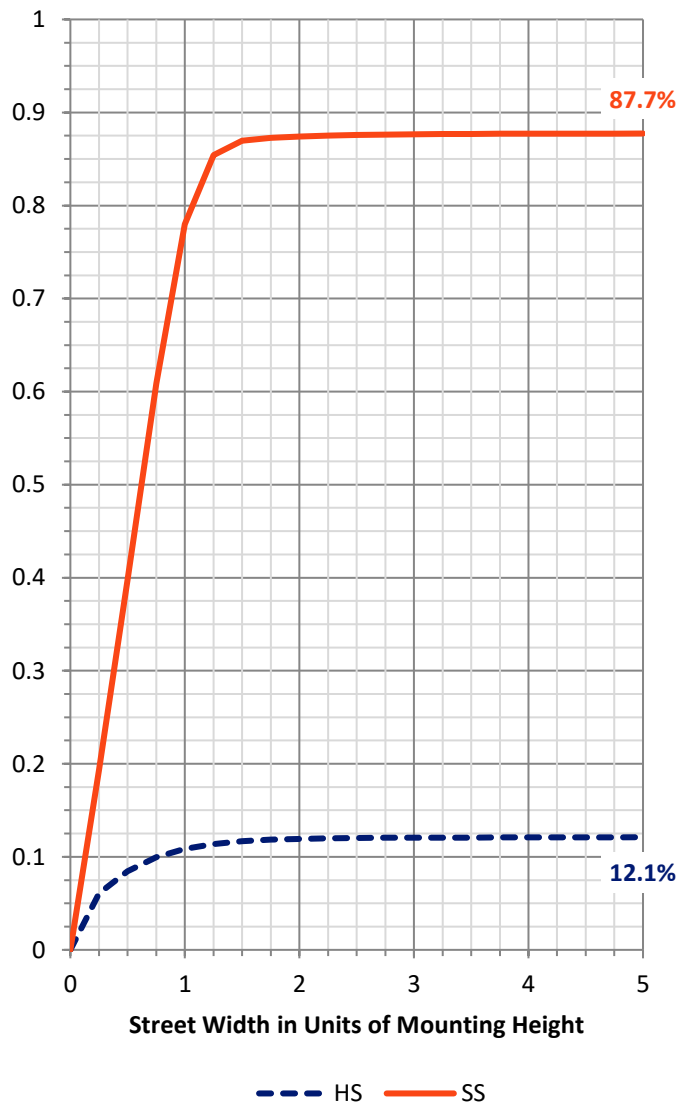
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2026.6	0.0	2026.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	14617.7	0.0	14617.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	16644.2	0.0	16644.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.9	2.6
10°-20°	1149.7	6.9
20°-30°	1963.0	11.8
30°-40°	3614.9	21.7
40°-50°	5614.0	33.7
50°-60°	3378.7	20.3
60°-70°	390.8	2.3
70°-80°	75.6	0.5
80°-90°	17.5	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°	16644.2	100.0
0°-180°	16644.2	100.0

Coefficient of Utilization

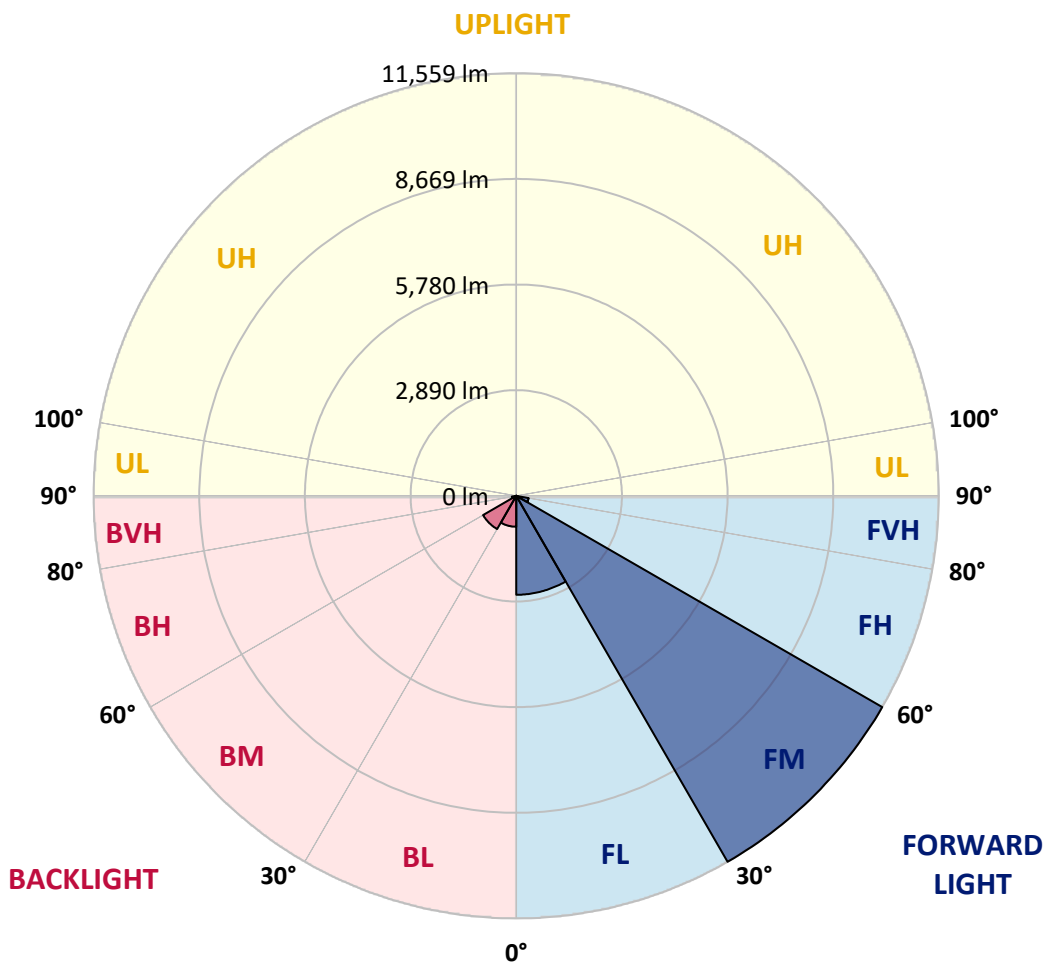


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2706.1	16.3			
FM (30°-60°)	11559.1	69.4			
FH (60°-80°)	344.1	2.1			G0/660
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	846.6	5.1	B2/1000		
BM (30°-60°)	1048.5	6.3	B2/2500		
BH (60°-80°)	122.3	0.7	B1/500		G1/500
BVH (80°-90°)	9.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6
2.5°	5825.7	5692.2	5704.3	5617.0	5566.0	5483.5	5371.9	5350.1	5228.8	5063.7	4896.3
5°	6349.7	6318.2	6359.4	6233.2	6238.1	6102.2	5840.2	5845.0	5566.0	5296.7	5037.1
7.5°	6383.7	6310.9	6352.2	6463.7	6529.3	6505.0	6357.0	6228.4	5964.0	5568.5	5190.0
10°	5716.4	5854.7	5898.4	6082.8	6344.9	6621.5	6604.5	6611.8	6391.0	5874.1	5321.0
12.5°	5316.1	5223.9	5371.9	5483.5	5879.0	6415.3	6660.3	6713.7	6730.7	6170.2	5452.0
15°	5134.1	5134.1	5158.4	5190.0	5476.2	5971.2	6471.0	6626.3	6992.7	6558.4	5658.2
17.5°	5248.1	5243.3	5277.3	5211.8	5318.5	5699.5	6296.3	6473.5	7286.3	6939.3	5820.8
20°	5595.2	5612.2	5590.3	5401.1	5408.3	5694.6	6102.2	6381.3	7485.2	7269.3	6036.7
22.5°	6078.0	6087.7	5964.0	5757.7	5697.0	5837.7	6213.9	6427.3	7645.4	7664.8	6102.2
25°	6636.0	6597.2	6573.0	6281.8	6097.4	6218.7	6466.2	6590.0	7744.9	8004.5	6289.1
27.5°	7410.1	7332.4	7184.4	6924.8	6788.9	6616.7	6793.8	6997.6	8028.7	8480.0	6492.9
30°	8552.9	8484.9	8196.2	7861.3	7504.7	7334.8	7390.7	7502.2	8540.7	9030.8	6762.2
32.5°	10273.1	10130.0	9712.6	9074.5	8589.3	8121.0	8106.4	8225.3	8999.3	9792.7	7082.5
35°	12168.1	12124.4	11510.6	10853.0	9914.0	9191.0	9203.1	9266.2	9877.6	10792.3	7502.2
37.5°	13427.4	13667.6	13276.9	12570.8	11782.3	10748.7	10486.6	10508.5	11083.5	11976.4	8259.2
40°	14400.3	14196.5	14242.6	14077.6	13539.0	12835.3	12255.4	12141.4	12478.7	13286.6	9011.4
42.5°	13975.7	13985.4	14269.3	14660.0	14793.4	14742.4	14150.4	13934.5	13672.4	14359.0	9727.2
45°	12777.1	13027.0	13395.8	14429.4	15336.9	16188.5	16072.1	15713.0	14497.4	15208.3	10139.7
47.5°	10865.1	10855.4	11459.6	12803.8	14820.1	16814.5	17343.4	17091.2	15082.1	15113.7	10054.7
48°	10159.1	10333.8	10957.4	12539.4	14492.5	16722.3	17457.5	17139.6	14982.6	14987.5	9982.0
50°	7509.5	7478.0	8254.4	10195.4	12944.6	15713.0	16977.1	17224.6	14980.2	14349.3	9472.4
52.5°	3967.1	4102.9	4668.2	6410.4	9152.2	12859.6	14975.3	15361.1	14451.3	13306.1	8739.7
55°	1686.3	1523.7	1958.0	2894.6	5148.7	8591.7	10986.4	11845.4	12219.0	11775.0	7645.4
57.5°	601.7	657.6	757.0	1089.4	2164.3	4702.2	6551.1	7218.3	8465.5	8640.2	5209.4
60°	385.8	393.1	424.6	499.8	812.8	1812.5	3108.1	3639.5	4204.9	4340.7	2431.2
62.5°	298.4	300.8	315.4	327.5	385.8	703.6	1167.1	1383.0	1436.4	1235.0	638.1
65°	249.9	252.4	257.2	257.2	274.2	330.0	407.6	448.9	436.8	431.9	361.5
67.5°	191.7	196.5	206.2	206.2	216.0	201.4	225.7	240.2	271.8	330.0	308.1
70°	150.4	152.8	160.1	165.0	165.0	145.6	162.6	177.1	199.0	245.1	242.7
72.5°	116.4	121.3	126.1	126.1	118.9	99.4	116.4	128.6	143.1	169.8	165.0
75°	89.8	89.8	92.2	75.2	58.3	51.0	70.4	85.0	106.7	111.6	92.2
77.5°	24.3	26.7	24.3	21.8	24.3	36.4	46.1	53.4	68.0	68.0	60.7
80°	0.0	2.4	7.3	14.6	24.3	34.0	41.3	46.1	53.4	58.3	55.8
82.5°	0.0	2.4	7.3	14.6	21.8	26.7	36.4	38.8	43.7	51.0	51.0
85°	0.0	2.4	4.9	9.7	14.6	17.0	17.0	14.6	14.6	12.1	9.7
87.5°	0.0	0.0	2.4	4.9	4.9	7.3	7.3	7.3	7.3	7.3	7.3
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°	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6	4806.6
2.5°	4830.9	4755.6	4641.6	4462.0	4289.7	4178.2	4071.4	3952.5	3887.0	3882.1	3845.8
5°	4889.1	4719.2	4447.5	4139.3	3809.4	3525.5	3239.2	3052.4	2884.9	2792.7	2775.7
7.5°	4920.6	4699.8	4260.6	3743.8	3180.9	2717.5	2397.2	2161.9	2069.7	2001.7	1999.3
10°	4986.1	4665.8	3981.6	3219.8	2523.4	2055.1	1834.3	1727.5	1676.6	1657.2	1628.1
12.5°	5034.7	4602.8	3695.3	2681.1	1994.5	1703.3	1606.2	1582.0	1584.4	1594.1	1582.0
15°	5102.6	4547.0	3309.5	2200.7	1674.2	1533.4	1533.4	1538.3	1572.3	1577.1	1574.7
17.5°	5097.7	4437.8	2911.6	1812.5	1480.1	1460.7	1468.0	1514.0	1535.9	1543.1	1526.1
20°	5156.0	4335.9	2501.5	1548.0	1370.9	1400.0	1448.6	1460.7	1487.3	1492.2	1472.8
22.5°	5139.0	4081.1	2120.6	1339.3	1288.3	1344.2	1392.7	1407.3	1400.0	1385.4	1383.0
25°	5107.4	3862.7	1771.2	1201.0	1227.7	1288.3	1334.5	1307.8	1293.2	1295.6	1298.1
27.5°	5051.6	3586.1	1482.5	1104.0	1145.2	1235.0	1232.6	1222.9	1237.5	1225.3	1237.5
30°	5041.9	3309.5	1244.7	1016.6	1084.6	1150.1	1154.9	1171.9	1188.9	1167.1	1188.9
32.5°	5056.5	3006.3	1074.9	963.2	1048.2	1050.6	1104.0	1120.9	1108.8	1060.3	1065.2
35°	5168.1	2773.3	951.1	934.1	989.9	992.4	1043.3	1021.5	968.1	939.0	956.0
37.5°	5403.5	2579.2	892.9	907.4	912.3	943.8	946.3	902.6	907.4	905.0	914.7
40°	5704.3	2431.2	851.7	883.2	878.4	900.1	812.8	837.1	859.0	866.2	871.1
42.5°	5910.6	2324.4	825.0	844.4	834.7	795.8	747.3	771.6	788.6	815.3	820.1
45°	6002.8	2239.5	793.4	776.4	776.4	706.0	686.7	691.5	730.3	759.4	754.6
47.5°	5852.3	2157.0	737.6	686.7	703.6	645.4	623.6	623.6	664.8	701.2	693.9
48°	5794.1	2123.0	740.0	667.3	679.4	635.7	613.9	609.0	655.1	689.1	689.1
50°	5505.4	1996.9	677.0	613.9	589.6	584.7	570.2	575.0	604.2	635.7	635.7
52.5°	4942.5	1725.1	572.6	526.5	482.9	511.9	519.2	509.5	524.1	553.2	550.8
55°	4124.8	1324.8	458.6	436.8	402.8	434.3	448.9	436.8	422.2	444.0	444.0
57.5°	2642.3	713.3	366.4	371.2	337.2	368.8	380.9	351.8	325.1	342.1	339.7
60°	1191.3	427.0	300.8	293.6	271.8	308.1	327.5	293.6	257.2	269.4	281.5
62.5°	446.5	303.3	228.1	223.2	218.4	252.4	262.1	235.4	199.0	206.2	208.7
65°	327.5	266.9	182.0	165.0	174.7	199.0	194.1	167.4	143.1	143.1	148.0
67.5°	279.1	232.9	148.0	128.6	128.6	131.0	121.3	106.7	99.4	104.3	109.2
70°	218.4	184.4	116.4	99.4	89.8	80.1	70.4	68.0	60.7	68.0	65.5
72.5°	140.7	123.7	89.8	75.2	68.0	55.8	46.1	43.7	36.4	34.0	34.0
75°	75.2	75.2	70.4	60.7	53.4	43.7	36.4	29.1	19.4	14.6	14.6
77.5°	53.4	58.3	63.1	58.3	48.5	36.4	29.1	19.4	9.7	4.9	4.9
80°	51.0	58.3	63.1	55.8	48.5	36.4	26.7	14.6	7.3	2.4	2.4
82.5°	46.1	53.4	58.3	51.0	43.7	31.6	24.3	14.6	7.3	2.4	2.4
85°	9.7	12.1	14.6	14.6	17.0	21.8	17.0	12.1	4.9	2.4	2.4
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	4.9	4.9	2.4	2.4	2.4
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)