

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: P528435

Luminaire Tested: **GALN-SA3C-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528435
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-SA3C-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA 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: 14584 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

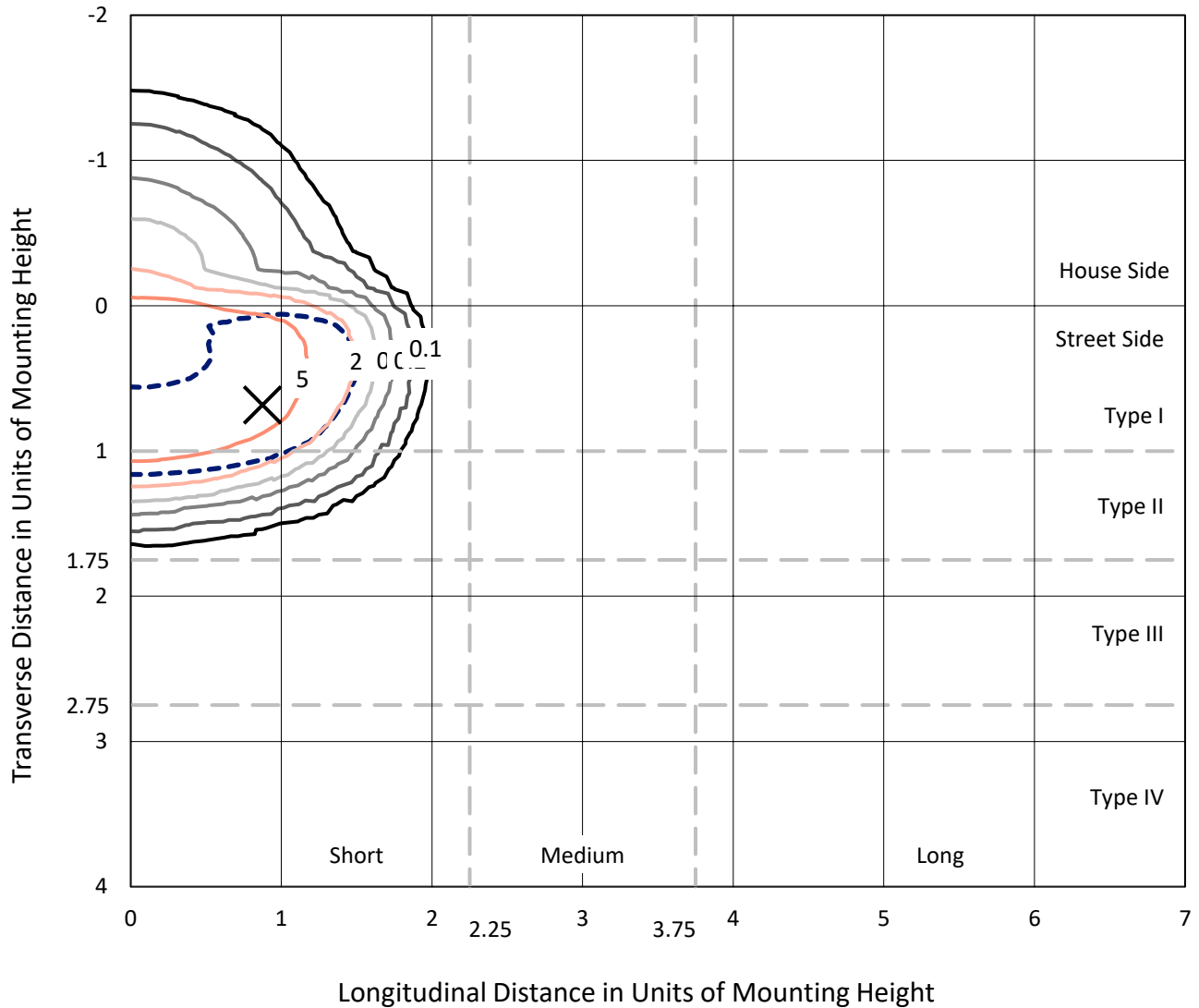
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

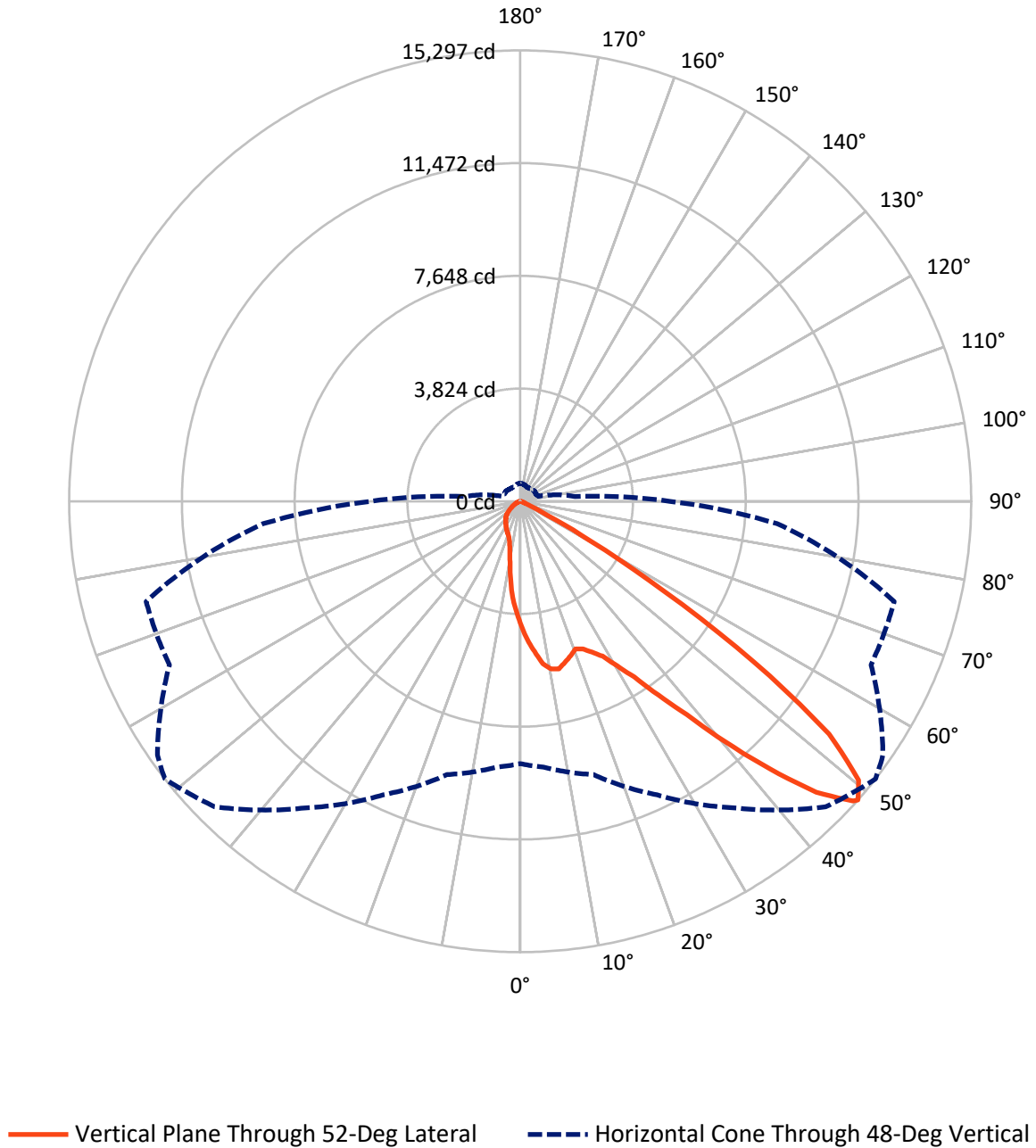
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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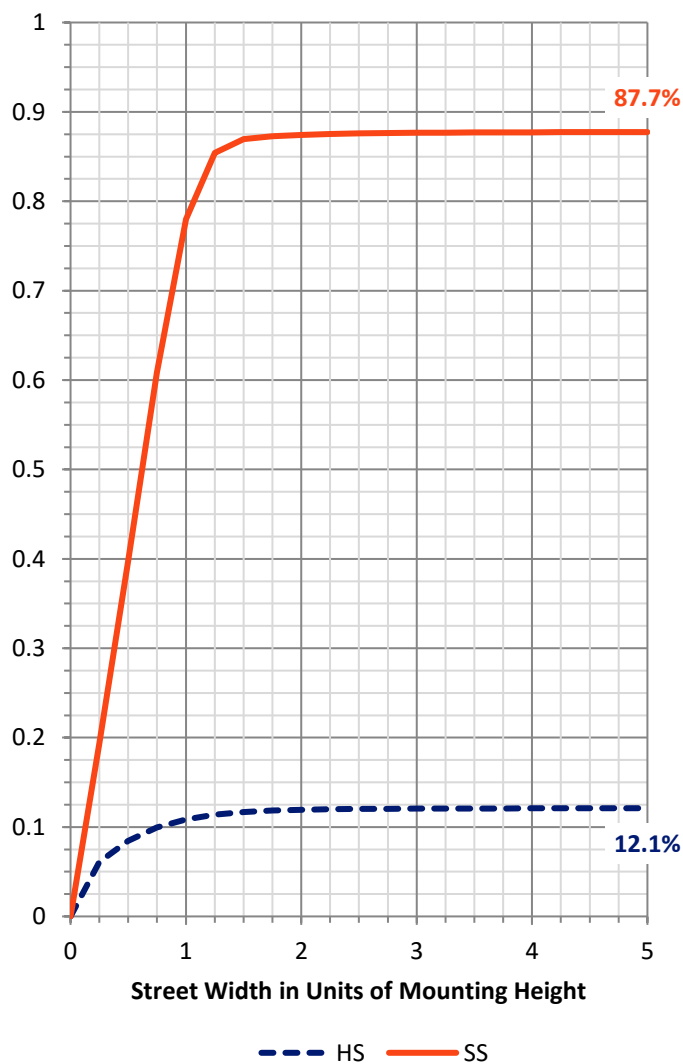
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1775.7	0.0	1775.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12808.3	0.0	12808.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	14584.0	0.0	14584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.5	2.6
10°-20°	1007.4	6.9
20°-30°	1720.1	11.8
30°-40°	3167.5	21.7
40°-50°	4919.1	33.7
50°-60°	2960.5	20.3
60°-70°	342.4	2.3
70°-80°	66.3	0.5
80°-90°	15.3	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°	14584.0	100.0
0°-180°	14584.0	100.0

Coefficient of Utilization



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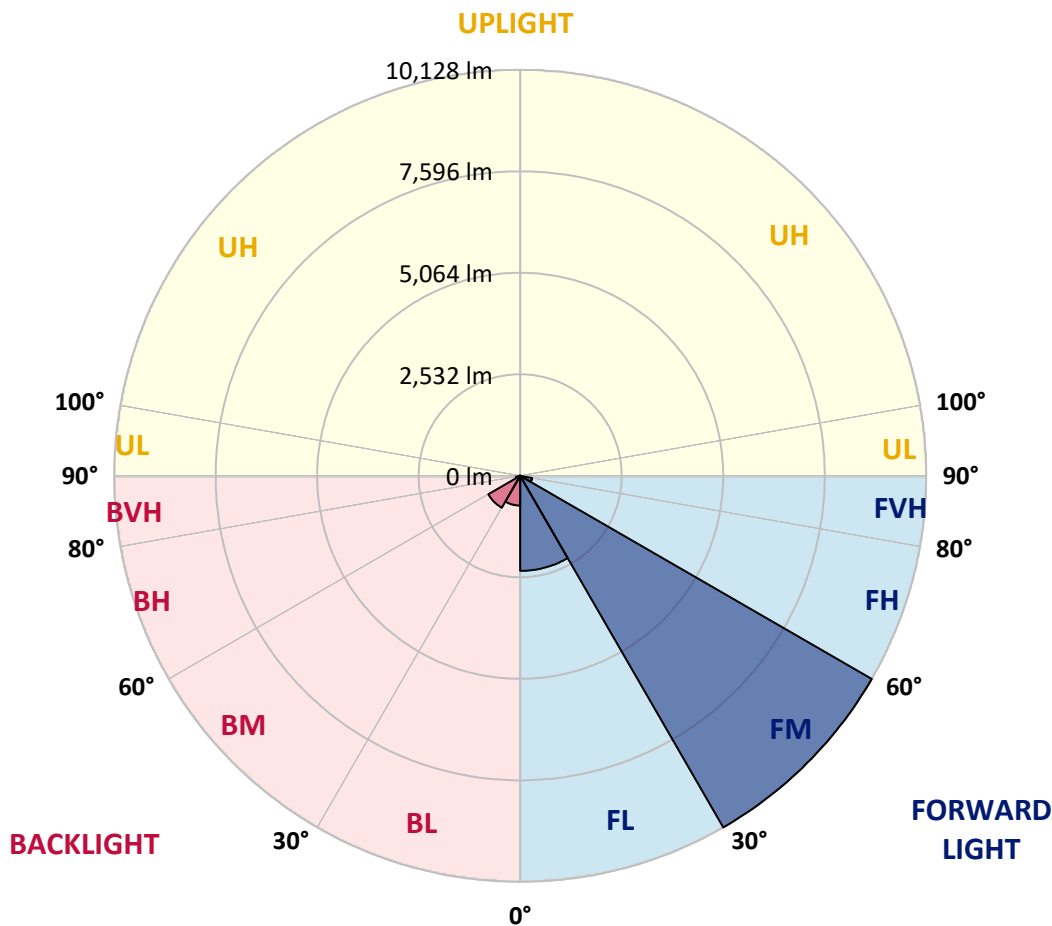
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2371.2	16.3			
FM (30°-60°)	10128.3	69.4			
FH (60°-80°)	301.5	2.1			G0/660
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	741.8	5.1	B2/1000		
BM (30°-60°)	918.7	6.3	B1/1000		
BH (60°-80°)	107.2	0.7	B0/110		G0/110
BVH (80°-90°)	8.0	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4211.6	4211.6	4211.6	4211.6	4211.6	4211.6	4211.6	4211.6	4211.6	4211.6	4211.6
2.5°	5104.5	4987.6	4998.2	4921.7	4877.1	4804.8	4707.0	4687.8	4581.5	4437.0	4290.3
5°	5563.8	5536.1	5572.3	5461.7	5466.0	5346.9	5117.3	5121.5	4877.1	4641.1	4413.6
7.5°	5593.5	5529.7	5565.9	5663.7	5721.1	5699.8	5570.1	5457.5	5225.7	4879.2	4547.5
10°	5008.9	5130.1	5168.3	5329.9	5559.5	5801.9	5787.0	5793.4	5599.9	5147.1	4662.3
12.5°	4658.1	4577.3	4707.0	4804.8	5151.3	5621.2	5835.9	5882.7	5897.5	5406.4	4777.1
15°	4498.6	4498.6	4519.9	4547.5	4798.4	5232.1	5670.1	5806.1	6127.1	5746.6	4957.8
17.5°	4598.5	4594.3	4624.1	4566.7	4660.2	4994.0	5517.0	5672.2	6384.4	6080.4	5100.3
20°	4902.6	4917.5	4898.3	4732.5	4738.9	4989.7	5346.9	5591.4	6558.7	6369.5	5289.5
22.5°	5325.6	5334.1	5225.7	5045.0	4991.9	5115.2	5444.7	5631.8	6699.0	6716.1	5346.9
25°	5814.6	5780.6	5759.3	5504.2	5342.7	5449.0	5665.8	5774.2	6786.2	7013.7	5510.6
27.5°	6492.8	6424.8	6295.1	6067.6	5948.6	5797.6	5952.8	6131.4	7035.0	7430.4	5689.2
30°	7494.2	7434.6	7181.6	6888.3	6575.7	6426.9	6475.8	6573.6	7483.5	7913.0	5925.2
32.5°	9001.5	8876.1	8510.4	7951.3	7526.1	7115.7	7103.0	7207.2	7885.4	8580.6	6205.8
35°	10661.9	10623.6	10085.8	9509.6	8686.9	8053.3	8063.9	8119.2	8655.0	9456.5	6573.6
37.5°	11765.3	11975.8	11633.5	11014.8	10323.9	9418.2	9188.6	9207.7	9711.6	10494.0	7236.9
40°	12617.8	12439.3	12479.7	12335.1	11863.1	11246.6	10738.5	10638.5	10934.0	11642.0	7896.0
42.5°	12245.8	12254.3	12503.0	12845.3	12962.3	12917.6	12398.9	12209.6	11980.0	12581.7	8523.2
45°	11195.5	11414.5	11737.7	12643.4	13438.5	14184.7	14082.7	13768.0	12702.9	13325.8	8884.6
47.5°	9520.3	9511.7	10041.1	11218.9	12985.6	14733.2	15196.7	14975.6	13215.3	13242.9	8810.2
48°	8901.6	9054.7	9601.0	10987.2	12698.6	14652.4	15296.6	15018.1	13128.1	13132.3	8746.4
50°	6580.0	6552.3	7232.7	8933.5	11342.2	13768.0	14875.7	15092.5	13126.0	12573.2	8299.9
52.5°	3476.0	3595.1	4090.4	5616.9	8019.3	11267.8	13121.7	13459.7	12662.5	11659.0	7657.9
55°	1477.6	1335.1	1715.7	2536.3	4511.4	7528.2	9626.6	10379.2	10706.6	10317.5	6699.0
57.5°	527.2	576.1	663.3	954.6	1896.4	4120.2	5740.2	6324.9	7417.6	7570.7	4564.5
60°	338.0	344.4	372.1	438.0	712.2	1588.1	2723.4	3189.0	3684.4	3803.4	2130.3
62.5°	261.5	263.6	276.4	287.0	338.0	616.5	1022.6	1211.8	1258.6	1082.1	559.1
65°	219.0	221.1	225.4	225.4	240.2	289.1	357.2	393.3	382.7	378.4	316.8
67.5°	168.0	172.2	180.7	180.7	189.2	176.5	197.7	210.5	238.1	289.1	270.0
70°	131.8	133.9	140.3	144.6	144.6	127.6	142.4	155.2	174.3	214.7	212.6
72.5°	102.0	106.3	110.6	110.6	104.2	87.2	102.0	112.7	125.4	148.8	144.6
75°	78.7	78.7	80.8	65.9	51.0	44.6	61.7	74.4	93.5	97.8	80.8
77.5°	21.3	23.4	21.3	19.1	21.3	31.9	40.4	46.8	59.5	59.5	53.2
80°	0.0	2.1	6.4	12.8	21.3	29.8	36.1	40.4	46.8	51.0	48.9
82.5°	0.0	2.1	6.4	12.8	19.1	23.4	31.9	34.0	38.3	44.6	44.6
85°	0.0	2.1	4.3	8.5	12.8	14.9	14.9	12.8	12.8	10.6	8.5
87.5°	0.0	0.0	2.1	4.3	4.3	6.4	6.4	6.4	6.4	6.4	6.4
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°	4211.6	4211.6	4211.6	4211.6	4211.6	4211.6	4211.6	4211.6	4211.6	4211.6	4211.6
2.5°	4232.9	4167.0	4067.0	3909.7	3758.8	3661.0	3567.4	3463.3	3405.9	3401.6	3369.7
5°	4283.9	4135.1	3897.0	3627.0	3337.8	3089.1	2838.2	2674.5	2527.8	2447.0	2432.2
7.5°	4311.5	4118.1	3733.3	3280.4	2787.2	2381.1	2100.5	1894.3	1813.5	1754.0	1751.8
10°	4368.9	4088.3	3488.8	2821.2	2211.0	1800.7	1607.3	1513.7	1469.1	1452.1	1426.5
12.5°	4411.5	4033.0	3237.9	2349.2	1747.6	1492.5	1407.4	1386.2	1388.3	1396.8	1386.2
15°	4471.0	3984.1	2899.9	1928.3	1466.9	1343.6	1343.6	1347.9	1377.7	1381.9	1379.8
17.5°	4466.7	3888.5	2551.2	1588.1	1296.9	1279.9	1286.2	1326.6	1345.8	1352.1	1337.3
20°	4517.8	3799.2	2191.9	1356.4	1201.2	1226.7	1269.2	1279.9	1303.2	1307.5	1290.5
22.5°	4502.9	3575.9	1858.1	1173.6	1128.9	1177.8	1220.3	1233.1	1226.7	1213.9	1211.8
25°	4475.2	3384.6	1552.0	1052.4	1075.8	1128.9	1169.3	1145.9	1133.2	1135.3	1137.4
27.5°	4426.3	3142.2	1299.0	967.3	1003.5	1082.1	1080.0	1071.5	1084.3	1073.6	1084.3
30°	4417.8	2899.9	1090.6	890.8	950.3	1007.7	1012.0	1026.9	1041.7	1022.6	1041.7
32.5°	4430.6	2634.1	941.8	844.0	918.4	920.6	967.3	982.2	971.6	929.1	933.3
35°	4528.4	2430.0	833.4	818.5	867.4	869.5	914.2	895.0	848.3	822.8	837.6
37.5°	4734.6	2259.9	782.4	795.1	799.4	827.0	829.1	790.9	795.1	793.0	801.5
40°	4998.2	2130.3	746.2	773.9	769.6	788.7	712.2	733.5	752.6	759.0	763.2
42.5°	5178.9	2036.7	722.8	739.8	731.3	697.3	654.8	676.1	691.0	714.3	718.6
45°	5259.7	1962.3	695.2	680.3	680.3	618.7	601.7	605.9	639.9	665.4	661.2
47.5°	5127.9	1890.0	646.3	601.7	616.5	565.5	546.4	546.4	582.5	614.4	608.0
48°	5076.9	1860.3	648.4	584.7	595.3	557.0	537.9	533.6	574.0	603.8	603.8
50°	4823.9	1749.7	593.2	537.9	516.6	512.4	499.6	503.9	529.4	557.0	557.0
52.5°	4330.7	1511.6	501.7	461.3	423.1	448.6	455.0	446.5	459.2	484.7	482.6
55°	3614.2	1160.8	401.8	382.7	352.9	380.6	393.3	382.7	369.9	389.1	389.1
57.5°	2315.2	625.0	321.0	325.3	295.5	323.2	333.8	308.3	284.9	299.8	297.6
60°	1043.9	374.2	263.6	257.2	238.1	270.0	287.0	257.2	225.4	236.0	246.6
62.5°	391.2	265.8	199.8	195.6	191.3	221.1	229.6	206.2	174.3	180.7	182.8
65°	287.0	233.9	159.5	144.6	153.1	174.3	170.1	146.7	125.4	125.4	129.7
67.5°	244.5	204.1	129.7	112.7	112.7	114.8	106.3	93.5	87.2	91.4	95.7
70°	191.3	161.6	102.0	87.2	78.7	70.2	61.7	59.5	53.2	59.5	57.4
72.5°	123.3	108.4	78.7	65.9	59.5	48.9	40.4	38.3	31.9	29.8	29.8
75°	65.9	65.9	61.7	53.2	46.8	38.3	31.9	25.5	17.0	12.8	12.8
77.5°	46.8	51.0	55.3	51.0	42.5	31.9	25.5	17.0	8.5	4.3	4.3
80°	44.6	51.0	55.3	48.9	42.5	31.9	23.4	12.8	6.4	2.1	2.1
82.5°	40.4	46.8	51.0	44.6	38.3	27.6	21.3	12.8	6.4	2.1	2.1
85°	8.5	10.6	12.8	12.8	14.9	19.1	14.9	10.6	4.3	2.1	2.1
87.5°	6.4	6.4	6.4	6.4	6.4	6.4	4.3	4.3	2.1	2.1	2.1
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)