

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: P528409

Luminaire Tested: **GALN-SA3C-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528409
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-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 14259 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

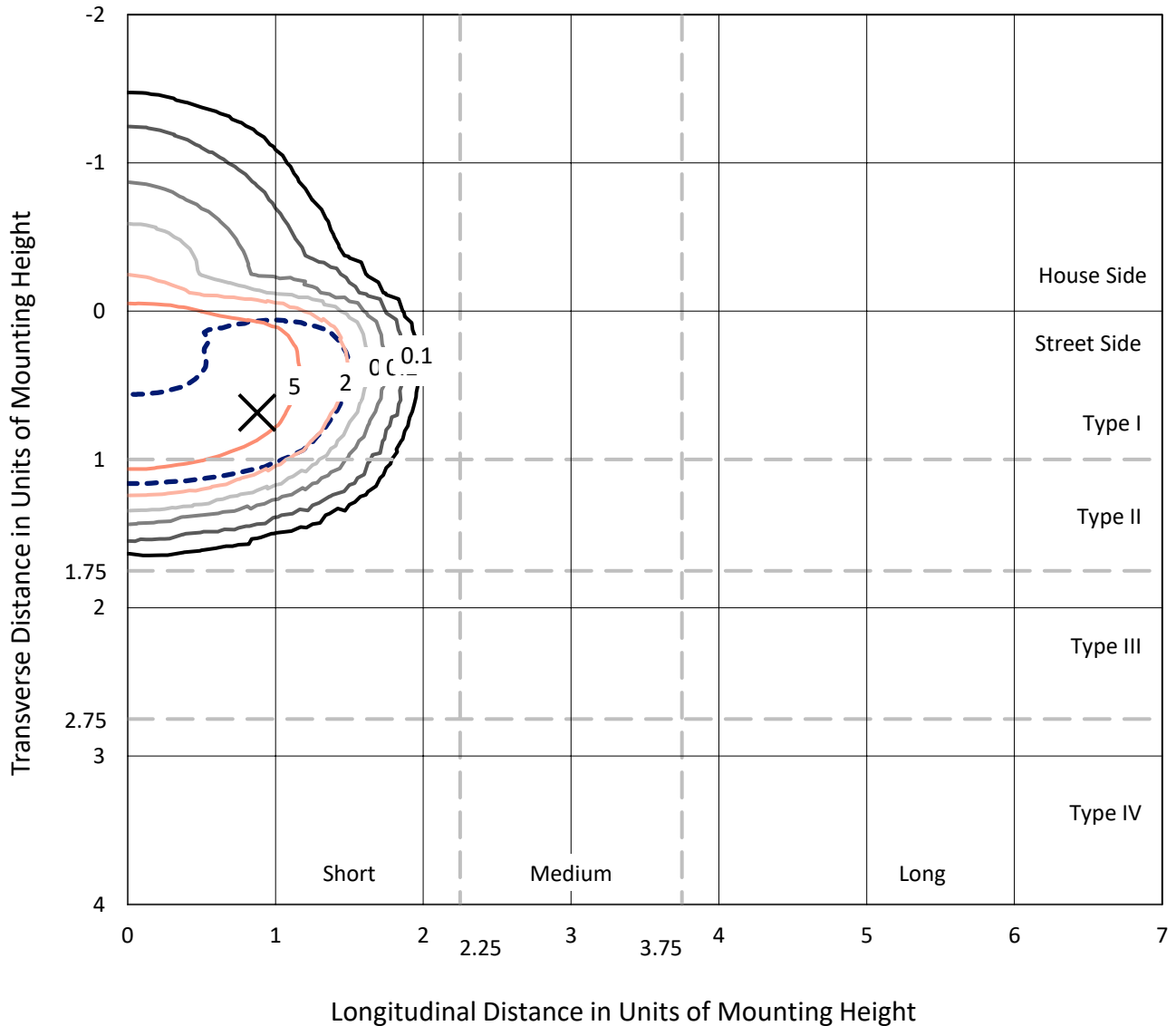
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

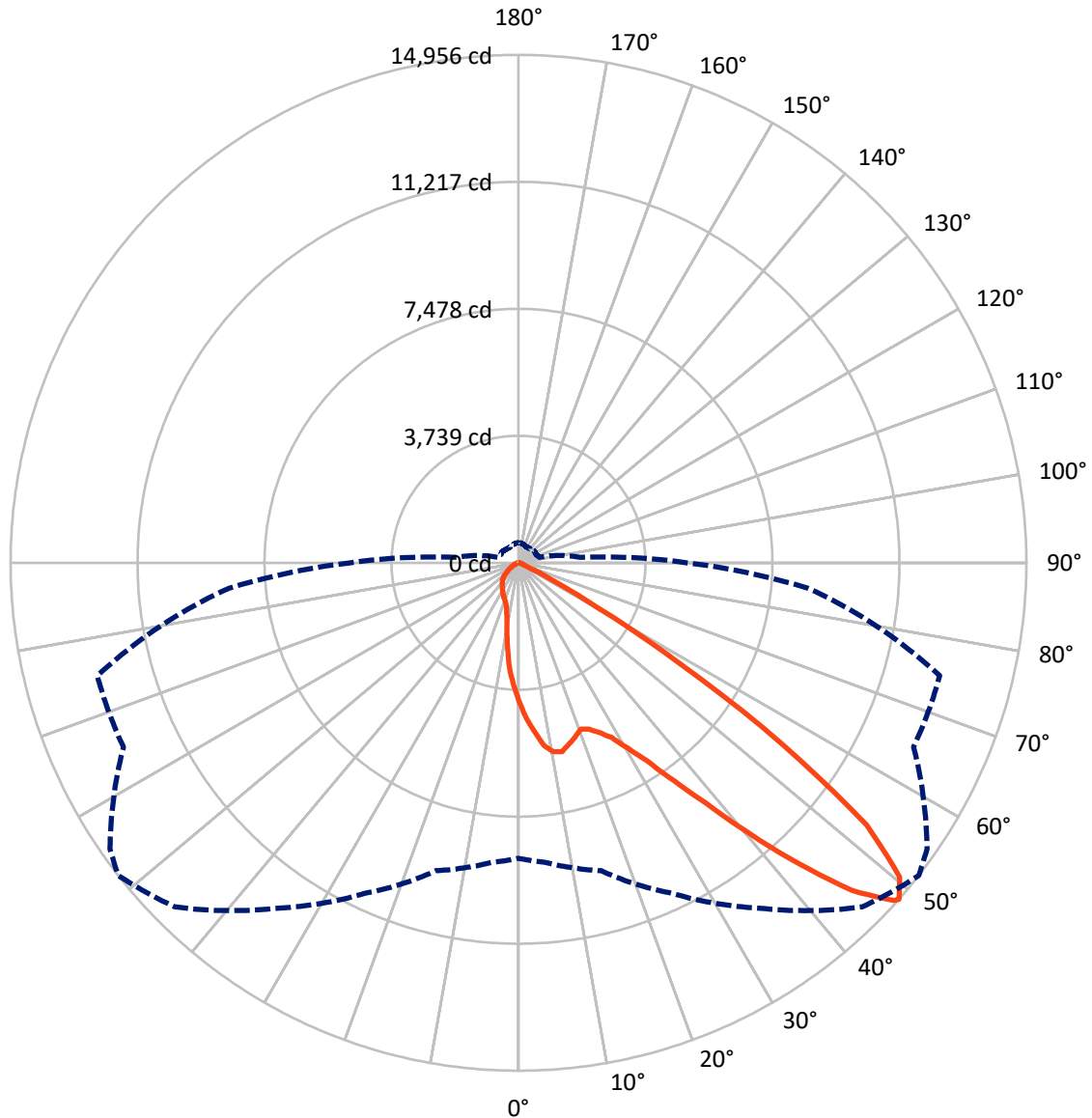
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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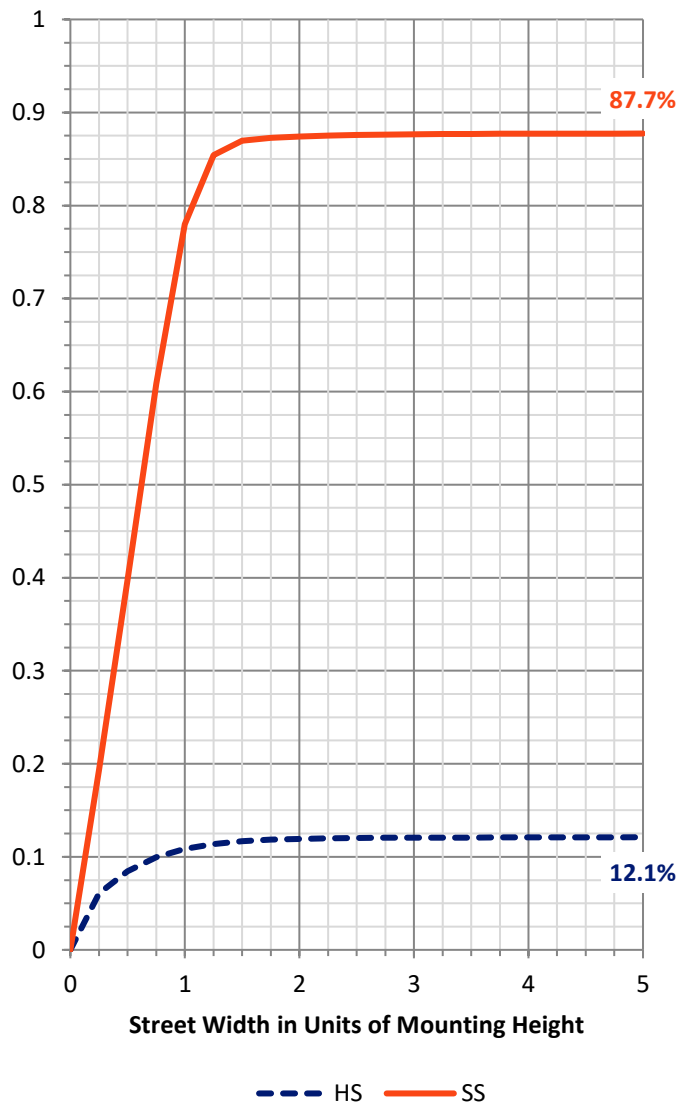
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1736.1	0.0	1736.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12522.9	0.0	12522.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	14259.0	0.0	14259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.9	2.6
10°-20°	985.0	6.9
20°-30°	1681.7	11.8
30°-40°	3096.9	21.7
40°-50°	4809.5	33.7
50°-60°	2894.5	20.3
60°-70°	334.8	2.3
70°-80°	64.8	0.5
80°-90°	15.0	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°	14259.0	100.0
0°-180°	14259.0	100.0

Coefficient of Utilization

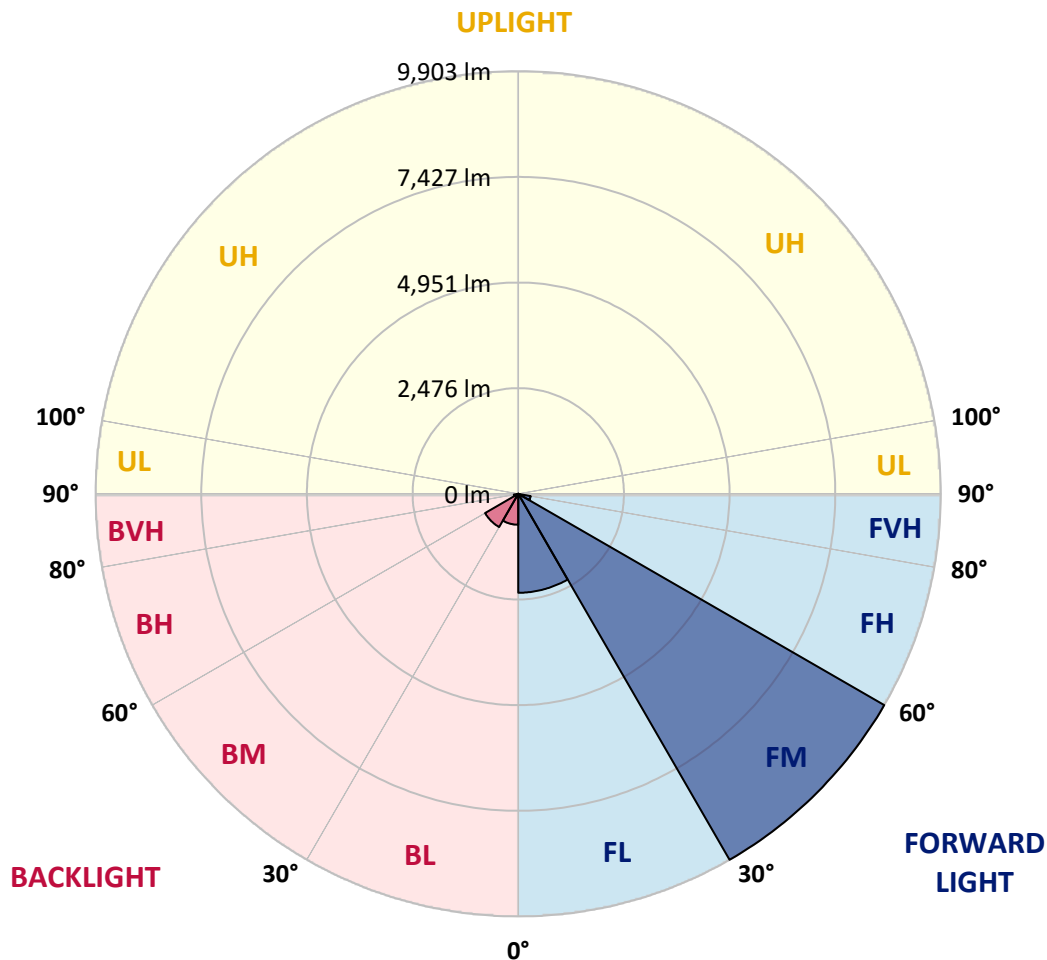


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2318.3	16.3			
FM (30°-60°)	9902.6	69.4			
FH (60°-80°)	294.8	2.1			G0/660
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	725.2	5.1	B2/1000		
BM (30°-60°)	898.3	6.3	B1/1000		
BH (60°-80°)	104.8	0.7	B0/110		G0/110
BVH (80°-90°)	7.9	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°	4117.8	4117.8	4117.8	4117.8	4117.8	4117.8	4117.8	4117.8	4117.8	4117.8	4117.8
2.5°	4990.8	4876.5	4886.9	4812.0	4768.4	4697.7	4602.1	4583.4	4479.4	4338.1	4194.7
5°	5439.8	5412.7	5448.1	5340.0	5344.2	5227.7	5003.3	5007.4	4768.4	4537.6	4315.2
7.5°	5468.9	5406.5	5441.8	5537.5	5593.6	5572.8	5446.0	5335.8	5109.3	4770.5	4446.2
10°	4897.2	5015.7	5053.1	5211.1	5435.6	5672.6	5658.0	5664.3	5475.1	5032.4	4558.4
12.5°	4554.3	4475.3	4602.1	4697.7	5036.5	5495.9	5705.8	5751.6	5766.1	5286.0	4670.7
15°	4398.4	4398.4	4419.2	4446.2	4691.5	5115.5	5543.7	5676.7	5990.6	5618.5	4847.4
17.5°	4496.1	4491.9	4521.0	4464.9	4556.4	4882.7	5394.0	5545.8	6242.1	5944.9	4986.6
20°	4793.3	4807.9	4789.2	4627.0	4633.3	4878.5	5227.7	5466.8	6412.6	6227.6	5171.6
22.5°	5207.0	5215.3	5109.3	4932.6	4880.6	5001.2	5323.4	5506.3	6549.8	6566.4	5227.7
25°	5685.0	5651.8	5631.0	5381.6	5223.6	5327.5	5539.5	5645.6	6635.0	6857.4	5387.8
27.5°	6348.1	6281.6	6154.8	5932.4	5816.0	5668.4	5820.2	5994.8	6878.2	7264.8	5562.4
30°	7327.2	7269.0	7021.6	6734.8	6429.2	6283.7	6331.5	6427.1	7316.8	7736.7	5793.1
32.5°	8800.9	8678.3	8320.7	7774.1	7358.3	6957.2	6944.7	7046.5	7709.6	8389.3	6067.5
35°	10424.3	10386.9	9861.0	9297.7	8493.3	7873.8	7884.2	7938.3	8462.1	9245.7	6427.1
37.5°	11503.1	11708.9	11374.3	10769.4	10093.8	9208.3	8983.8	9002.5	9495.2	10260.1	7075.7
40°	12336.7	12162.1	12201.5	12060.2	11598.7	10995.9	10499.2	10401.5	10690.4	11382.6	7720.0
42.5°	11972.9	11981.2	12224.4	12559.1	12673.4	12629.7	12122.6	11937.6	11713.1	12301.3	8333.2
45°	10946.1	11160.2	11476.1	12361.6	13139.0	13868.6	13768.8	13461.2	12419.8	13028.8	8686.6
47.5°	9308.1	9299.8	9817.4	10968.9	12696.3	14404.9	14858.0	14641.9	12920.8	12947.8	8613.8
48°	8703.2	8852.9	9387.1	10742.4	12415.6	14325.9	14955.7	14683.4	12835.5	12839.7	8551.5
50°	6433.4	6406.3	7071.5	8734.4	11089.5	13461.2	14544.2	14756.2	12833.5	12293.0	8115.0
52.5°	3398.6	3515.0	3999.3	5491.7	7840.6	11016.7	12829.3	13159.8	12380.3	11399.2	7487.2
55°	1444.6	1305.4	1677.5	2479.8	4410.8	7360.4	9412.0	10147.9	10468.0	10087.6	6549.8
57.5°	515.5	563.3	648.5	933.3	1854.1	4028.4	5612.3	6183.9	7252.3	7402.0	4462.8
60°	330.5	336.7	363.8	428.2	696.3	1552.7	2662.7	3117.9	3602.3	3718.7	2082.8
62.5°	255.7	257.7	270.2	280.6	330.5	602.8	999.8	1184.8	1230.5	1058.0	546.7
65°	214.1	216.2	220.3	220.3	234.9	282.7	349.2	384.5	374.2	370.0	309.7
67.5°	164.2	168.4	176.7	176.7	185.0	172.5	193.3	205.8	232.8	282.7	264.0
70°	128.9	131.0	137.2	141.3	141.3	124.7	139.3	151.7	170.4	209.9	207.9
72.5°	99.8	103.9	108.1	108.1	101.9	85.2	99.8	110.2	122.6	145.5	141.3
75°	76.9	76.9	79.0	64.4	49.9	43.7	60.3	72.8	91.5	95.6	79.0
77.5°	20.8	22.9	20.8	18.7	20.8	31.2	39.5	45.7	58.2	58.2	52.0
80°	0.0	2.1	6.2	12.5	20.8	29.1	35.3	39.5	45.7	49.9	47.8
82.5°	0.0	2.1	6.2	12.5	18.7	22.9	31.2	33.3	37.4	43.7	43.7
85°	0.0	2.1	4.2	8.3	12.5	14.6	14.6	12.5	12.5	10.4	8.3
87.5°	0.0	0.0	2.1	4.2	4.2	6.2	6.2	6.2	6.2	6.2	6.2
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°	4117.8	4117.8	4117.8	4117.8	4117.8	4117.8	4117.8	4117.8	4117.8	4117.8	4117.8
2.5°	4138.5	4074.1	3976.4	3822.6	3675.0	3579.4	3487.9	3386.1	3330.0	3325.8	3294.6
5°	4188.4	4042.9	3810.1	3546.1	3263.4	3020.2	2775.0	2614.9	2471.5	2392.5	2378.0
7.5°	4215.5	4026.3	3650.1	3207.3	2725.1	2328.1	2053.7	1852.1	1773.1	1714.9	1712.8
10°	4271.6	3997.2	3411.0	2758.3	2161.8	1760.6	1571.4	1480.0	1436.3	1419.7	1394.8
12.5°	4313.2	3943.2	3165.8	2296.9	1708.6	1459.2	1376.1	1355.3	1357.3	1365.7	1355.3
15°	4371.4	3895.3	2835.2	1885.3	1434.3	1313.7	1313.7	1317.9	1347.0	1351.1	1349.0
17.5°	4367.2	3801.8	2494.4	1552.7	1268.0	1251.3	1257.6	1297.1	1315.8	1322.0	1307.5
20°	4417.1	3714.5	2143.1	1326.2	1174.4	1199.4	1240.9	1251.3	1274.2	1278.4	1261.7
22.5°	4402.5	3496.3	1816.7	1147.4	1103.8	1151.6	1193.1	1205.6	1199.4	1186.9	1184.8
25°	4375.5	3309.2	1517.4	1028.9	1051.8	1103.8	1143.2	1120.4	1107.9	1110.0	1112.1
27.5°	4327.7	3072.2	1270.0	945.8	981.1	1058.0	1055.9	1047.6	1060.1	1049.7	1060.1
30°	4319.4	2835.2	1066.3	870.9	929.1	985.3	989.4	1004.0	1018.5	999.8	1018.5
32.5°	4331.9	2575.4	920.8	825.2	898.0	900.0	945.8	960.3	949.9	908.4	912.5
35°	4427.5	2375.9	814.8	800.3	848.1	850.2	893.8	875.1	829.4	804.4	819.0
37.5°	4629.1	2209.6	764.9	777.4	781.6	808.6	810.7	773.2	777.4	775.3	783.6
40°	4886.9	2082.8	729.6	756.6	752.5	771.2	696.3	717.1	735.8	742.1	746.2
42.5°	5063.5	1991.3	706.7	723.4	715.0	681.8	640.2	661.0	675.6	698.4	702.6
45°	5142.5	1918.6	679.7	665.2	665.2	604.9	588.3	592.4	625.7	650.6	646.5
47.5°	5013.7	1847.9	631.9	588.3	602.8	552.9	534.2	534.2	569.5	600.7	594.5
48°	4963.8	1818.8	634.0	571.6	582.0	544.6	525.9	521.7	561.2	590.3	590.3
50°	4716.4	1710.7	579.9	525.9	505.1	500.9	488.5	492.6	517.6	544.6	544.6
52.5°	4234.2	1477.9	490.6	451.1	413.6	438.6	444.8	436.5	449.0	473.9	471.8
55°	3533.7	1134.9	392.9	374.2	345.1	372.1	384.5	374.2	361.7	380.4	380.4
57.5°	2263.6	611.1	313.9	318.0	288.9	316.0	326.3	301.4	278.5	293.1	291.0
60°	1020.6	365.8	257.7	251.5	232.8	264.0	280.6	251.5	220.3	230.7	241.1
62.5°	382.5	259.8	195.4	191.2	187.1	216.2	224.5	201.6	170.4	176.7	178.8
65°	280.6	228.6	155.9	141.3	149.7	170.4	166.3	143.4	122.6	122.6	126.8
67.5°	239.0	199.5	126.8	110.2	110.2	112.2	103.9	91.5	85.2	89.4	93.5
70°	187.1	158.0	99.8	85.2	76.9	68.6	60.3	58.2	52.0	58.2	56.1
72.5°	120.6	106.0	76.9	64.4	58.2	47.8	39.5	37.4	31.2	29.1	29.1
75°	64.4	64.4	60.3	52.0	45.7	37.4	31.2	24.9	16.6	12.5	12.5
77.5°	45.7	49.9	54.0	49.9	41.6	31.2	24.9	16.6	8.3	4.2	4.2
80°	43.7	49.9	54.0	47.8	41.6	31.2	22.9	12.5	6.2	2.1	2.1
82.5°	39.5	45.7	49.9	43.7	37.4	27.0	20.8	12.5	6.2	2.1	2.1
85°	8.3	10.4	12.5	12.5	14.6	18.7	14.6	10.4	4.2	2.1	2.1
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	4.2	4.2	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)