

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: P528643

Luminaire Tested: **GALN-SA3D-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528643
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-SA3D-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 15689 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

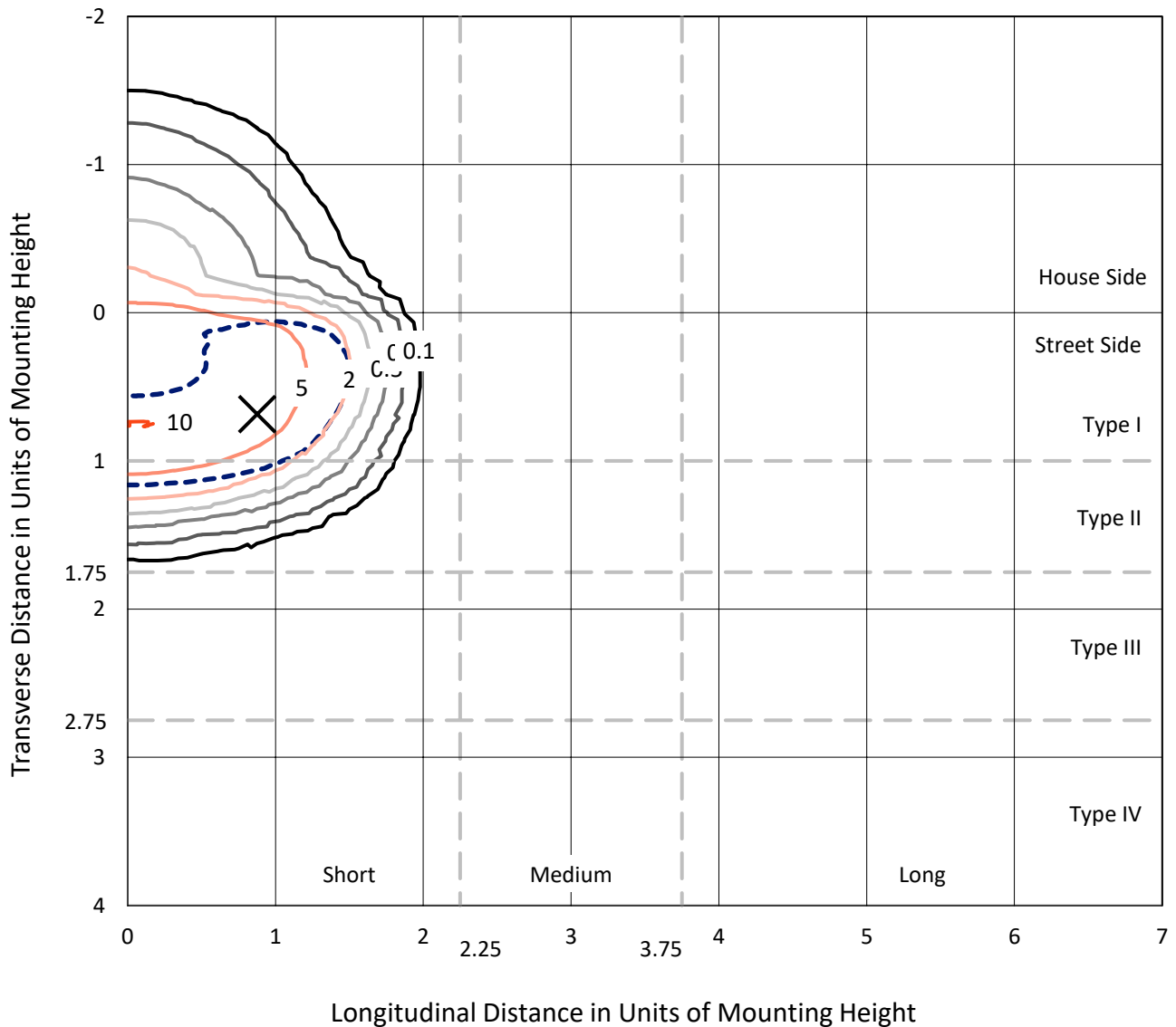
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

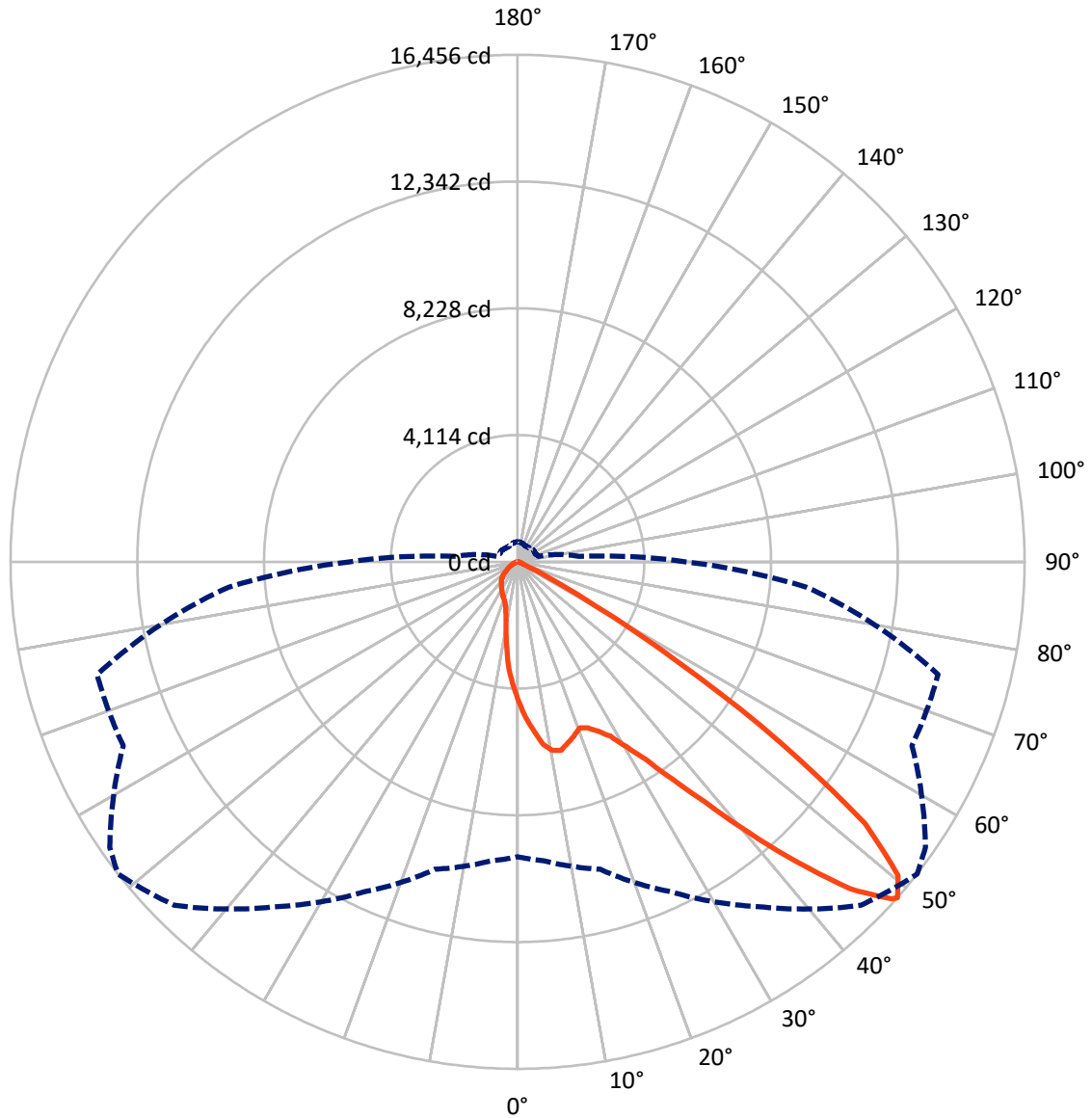
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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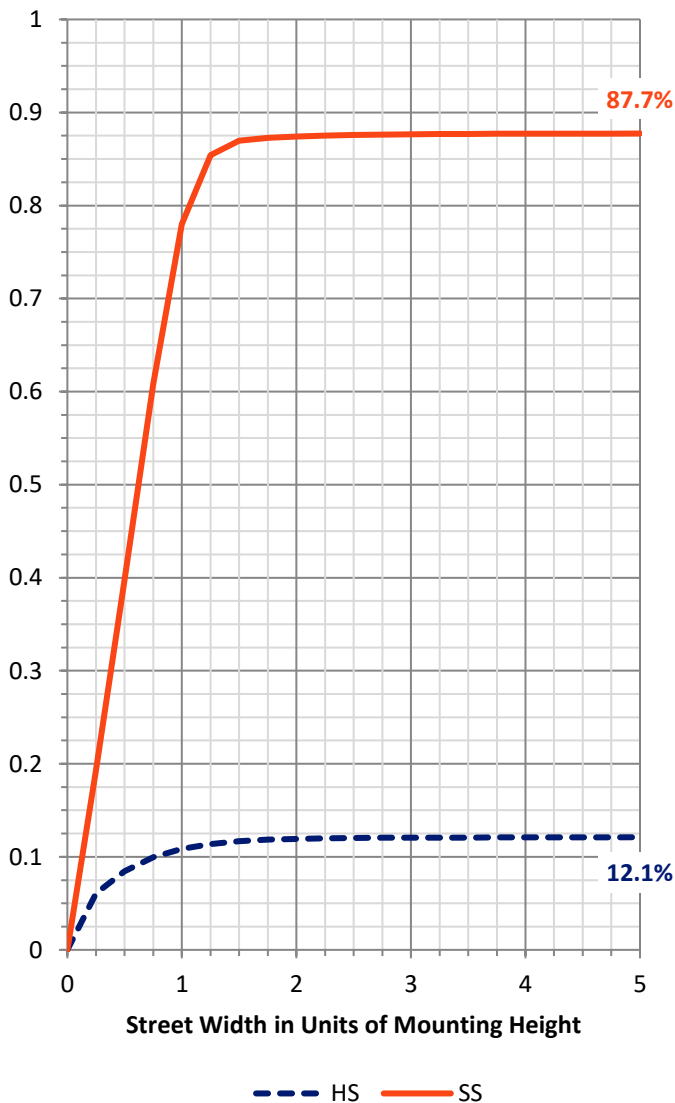
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1910.3	0.0	1910.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13778.7	0.0	13778.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	15689.0	0.0	15689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.7	2.6
10°-20°	1083.7	6.9
20°-30°	1850.4	11.8
30°-40°	3407.5	21.7
40°-50°	5291.8	33.7
50°-60°	3184.8	20.3
60°-70°	368.3	2.3
70°-80°	71.3	0.5
80°-90°	16.5	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°	15689.0	100.0
0°-180°	15689.0	100.0

Coefficient of Utilization

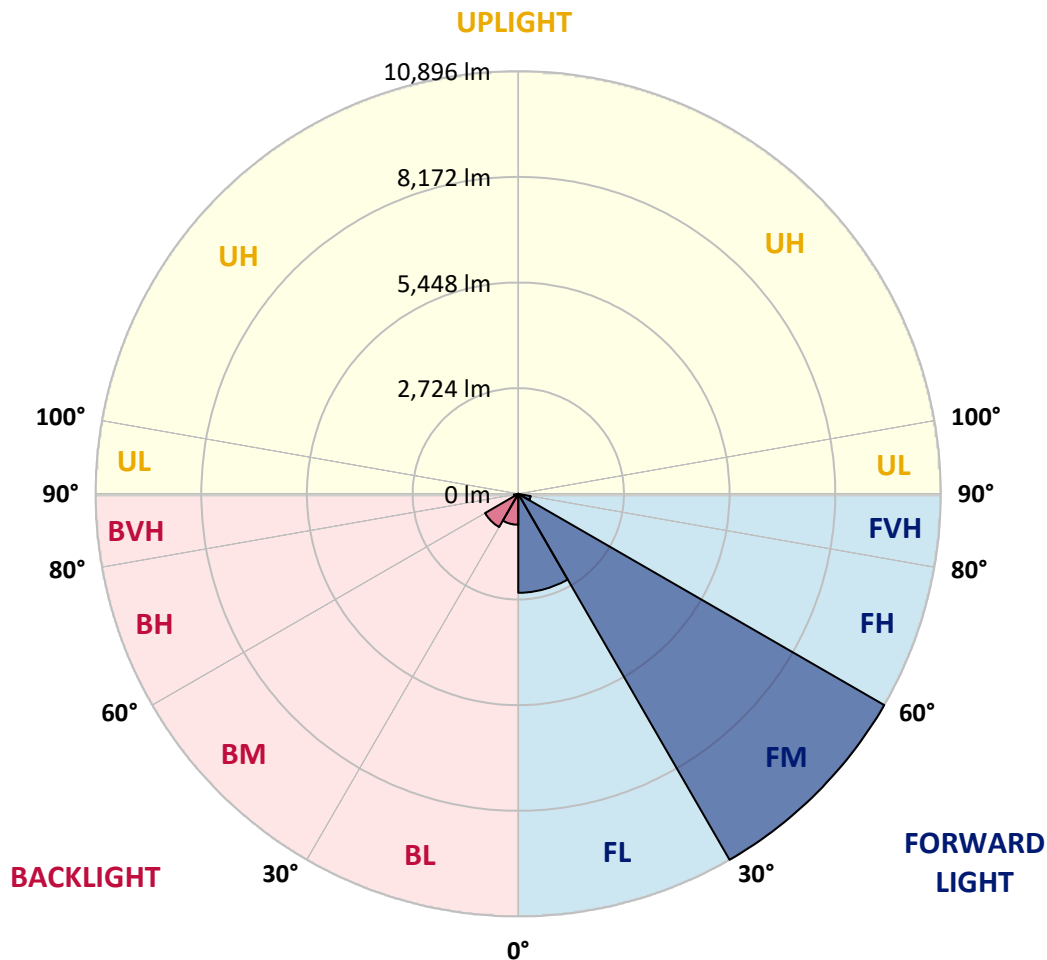


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2550.8	16.3			
FM (30°-60°)	10895.7	69.4			
FH (60°-80°)	324.4	2.1			G0/660
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	798.0	5.1	B2/1000		
BM (30°-60°)	988.3	6.3	B1/1000		
BH (60°-80°)	115.3	0.7	B1/500		G1/500
BVH (80°-90°)	8.6	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°	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7
2.5°	5491.3	5365.5	5376.9	5294.6	5246.6	5168.8	5063.6	5043.0	4928.7	4773.2	4615.3
5°	5985.3	5955.6	5994.5	5875.5	5880.1	5752.0	5505.0	5509.6	5246.6	4992.7	4748.0
7.5°	6017.3	5948.7	5987.6	6092.8	6154.6	6131.7	5992.2	5871.0	5621.7	5248.9	4892.1
10°	5388.4	5518.7	5559.9	5733.7	5980.7	6241.5	6225.5	6232.3	6024.2	5537.0	5015.6
12.5°	5011.0	4924.1	5063.6	5168.8	5541.6	6047.1	6278.1	6328.4	6344.4	5816.1	5139.1
15°	4839.5	4839.5	4862.4	4892.1	5162.0	5628.5	6099.7	6246.0	6591.4	6182.0	5333.5
17.5°	4947.0	4942.4	4974.4	4912.7	5013.3	5372.4	5935.0	6102.0	6868.1	6541.1	5486.7
20°	5274.0	5290.0	5269.5	5091.1	5097.9	5367.8	5752.0	6015.0	7055.7	6852.1	5690.3
22.5°	5729.2	5738.3	5621.7	5427.3	5370.1	5502.7	5857.2	6058.5	7206.6	7224.9	5752.0
25°	6255.2	6218.6	6195.7	5921.3	5747.5	5861.8	6095.1	6211.7	7300.4	7545.1	5928.1
27.5°	6984.8	6911.6	6772.1	6527.4	6399.3	6236.9	6403.8	6596.0	7568.0	7993.4	6120.2
30°	8062.0	7997.9	7725.8	7410.2	7074.0	6913.9	6966.5	7071.7	8050.6	8512.5	6374.1
32.5°	9683.5	9548.6	9155.2	8553.7	8096.3	7654.9	7641.2	7753.2	8482.8	9230.7	6676.0
35°	11469.7	11428.6	10849.9	10230.1	9345.0	8663.5	8674.9	8734.4	9310.7	10173.0	7071.7
37.5°	12656.7	12883.2	12514.9	11849.4	11106.1	10131.8	9884.8	9905.4	10447.4	11289.1	7785.2
40°	13573.9	13381.8	13425.2	13269.7	12762.0	12098.7	11552.1	11444.6	11762.5	12524.1	8494.2
42.5°	13173.6	13182.8	13450.4	13818.6	13944.4	13896.4	13338.3	13134.8	12887.7	13535.0	9168.9
45°	12043.8	12279.4	12627.0	13601.3	14456.7	15259.5	15149.7	14811.2	13665.4	14335.5	9557.7
47.5°	10241.6	10232.4	10801.9	12069.0	13969.5	15849.5	16348.1	16110.3	14216.5	14246.3	9477.7
48°	9576.0	9740.7	10328.5	11819.7	13660.8	15762.6	16455.6	16156.0	14122.8	14127.3	9409.1
50°	7078.5	7048.8	7780.7	9610.3	12201.6	14811.2	16002.8	16236.0	14120.5	13525.8	8928.8
52.5°	3739.4	3867.5	4400.4	6042.5	8626.9	12121.6	14115.9	14479.6	13621.9	12542.4	8238.1
55°	1589.5	1436.3	1845.7	2728.5	4853.2	8098.6	10355.9	11165.6	11517.8	11099.2	7206.6
57.5°	567.2	619.8	713.6	1026.9	2040.1	4432.4	6175.1	6804.1	7979.7	8144.3	4910.4
60°	363.6	370.5	400.2	471.1	766.2	1708.5	2929.8	3430.6	3963.5	4091.6	2291.7
62.5°	281.3	283.6	297.3	308.8	363.6	663.3	1100.1	1303.6	1354.0	1164.1	601.5
65°	235.6	237.9	242.4	242.4	258.4	311.0	384.2	423.1	411.7	407.1	340.8
67.5°	180.7	185.3	194.4	194.4	203.6	189.8	212.7	226.4	256.2	311.0	290.5
70°	141.8	144.1	150.9	155.5	155.5	137.2	153.2	167.0	187.5	231.0	228.7
72.5°	109.8	114.4	118.9	118.9	112.1	93.8	109.8	121.2	134.9	160.1	155.5
75°	84.6	84.6	86.9	70.9	54.9	48.0	66.3	80.0	100.6	105.2	86.9
77.5°	22.9	25.2	22.9	20.6	22.9	34.3	43.5	50.3	64.0	64.0	57.2
80°	0.0	2.3	6.9	13.7	22.9	32.0	38.9	43.5	50.3	54.9	52.6
82.5°	0.0	2.3	6.9	13.7	20.6	25.2	34.3	36.6	41.2	48.0	48.0
85°	0.0	2.3	4.6	9.1	13.7	16.0	16.0	13.7	13.7	11.4	9.1
87.5°	0.0	0.0	2.3	4.6	4.6	6.9	6.9	6.9	6.9	6.9	6.9
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°	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7	4530.7
2.5°	4553.6	4482.7	4375.2	4206.0	4043.6	3938.4	3837.7	3725.7	3663.9	3659.3	3625.0
5°	4608.5	4448.4	4192.2	3901.8	3590.7	3323.1	3053.3	2877.2	2719.3	2632.4	2616.4
7.5°	4638.2	4430.1	4016.1	3529.0	2998.4	2561.5	2259.6	2037.8	1950.9	1886.8	1884.6
10°	4700.0	4398.1	3753.1	3035.0	2378.6	1937.2	1729.0	1628.4	1580.4	1562.1	1534.6
12.5°	4745.7	4338.6	3483.2	2527.2	1880.0	1605.5	1514.1	1491.2	1493.5	1502.6	1491.2
15°	4809.7	4286.0	3119.6	2074.4	1578.1	1445.4	1445.4	1450.0	1482.0	1486.6	1484.3
17.5°	4805.2	4183.1	2744.5	1708.5	1395.1	1376.8	1383.7	1427.1	1447.7	1454.6	1438.6
20°	4860.1	4087.0	2358.0	1459.2	1292.2	1319.7	1365.4	1376.8	1402.0	1406.6	1388.3
22.5°	4844.1	3846.9	1998.9	1262.5	1214.4	1267.0	1312.8	1326.5	1319.7	1305.9	1303.6
25°	4814.3	3641.0	1669.6	1132.1	1157.3	1214.4	1257.9	1232.7	1219.0	1221.3	1223.6
27.5°	4761.7	3380.3	1397.4	1040.6	1079.5	1164.1	1161.8	1152.7	1166.4	1155.0	1166.4
30°	4752.6	3119.6	1173.3	958.3	1022.3	1084.1	1088.7	1104.7	1120.7	1100.1	1120.7
32.5°	4766.3	2833.7	1013.2	908.0	988.0	990.3	1040.6	1056.6	1045.2	999.5	1004.0
35°	4871.5	2614.1	896.5	880.5	933.1	935.4	983.4	962.9	912.5	885.1	901.1
37.5°	5093.3	2431.2	841.6	855.4	859.9	889.7	892.0	850.8	855.4	853.1	862.2
40°	5376.9	2291.7	802.8	832.5	827.9	848.5	766.2	789.0	809.6	816.5	821.1
42.5°	5571.3	2191.0	777.6	795.9	786.8	750.2	704.4	727.3	743.3	768.5	773.0
45°	5658.3	2111.0	747.9	731.9	731.9	665.5	647.2	651.8	688.4	715.9	711.3
47.5°	5516.5	2033.2	695.3	647.2	663.3	608.4	587.8	587.8	626.7	661.0	654.1
48°	5461.6	2001.2	697.6	628.9	640.4	599.2	578.6	574.1	617.5	649.5	649.5
50°	5189.4	1882.3	638.1	578.6	555.8	551.2	537.5	542.0	569.5	599.2	599.2
52.5°	4658.8	1626.1	539.8	496.3	455.1	482.6	489.4	480.3	494.0	521.5	519.2
55°	3888.1	1248.8	432.3	411.7	379.7	409.4	423.1	411.7	398.0	418.5	418.5
57.5°	2490.6	672.4	345.4	349.9	317.9	347.6	359.1	331.6	306.5	322.5	320.2
60°	1123.0	402.5	283.6	276.7	256.2	290.5	308.8	276.7	242.4	253.9	265.3
62.5°	420.8	285.9	215.0	210.4	205.8	237.9	247.0	221.8	187.5	194.4	196.7
65°	308.8	251.6	171.5	155.5	164.7	187.5	183.0	157.8	134.9	134.9	139.5
67.5°	263.0	219.6	139.5	121.2	121.2	123.5	114.4	100.6	93.8	98.3	102.9
70°	205.8	173.8	109.8	93.8	84.6	75.5	66.3	64.0	57.2	64.0	61.8
72.5°	132.7	116.6	84.6	70.9	64.0	52.6	43.5	41.2	34.3	32.0	32.0
75°	70.9	70.9	66.3	57.2	50.3	41.2	34.3	27.4	18.3	13.7	13.7
77.5°	50.3	54.9	59.5	54.9	45.7	34.3	27.4	18.3	9.1	4.6	4.6
80°	48.0	54.9	59.5	52.6	45.7	34.3	25.2	13.7	6.9	2.3	2.3
82.5°	43.5	50.3	54.9	48.0	41.2	29.7	22.9	13.7	6.9	2.3	2.3
85°	9.1	11.4	13.7	13.7	16.0	20.6	16.0	11.4	4.6	2.3	2.3
87.5°	6.9	6.9	6.9	6.9	6.9	6.9	4.6	4.6	2.3	2.3	2.3
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)