

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: P529293

Luminaire Tested: **GALN-SA4C-722-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529293
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-SA4C-722-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 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: 15251 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

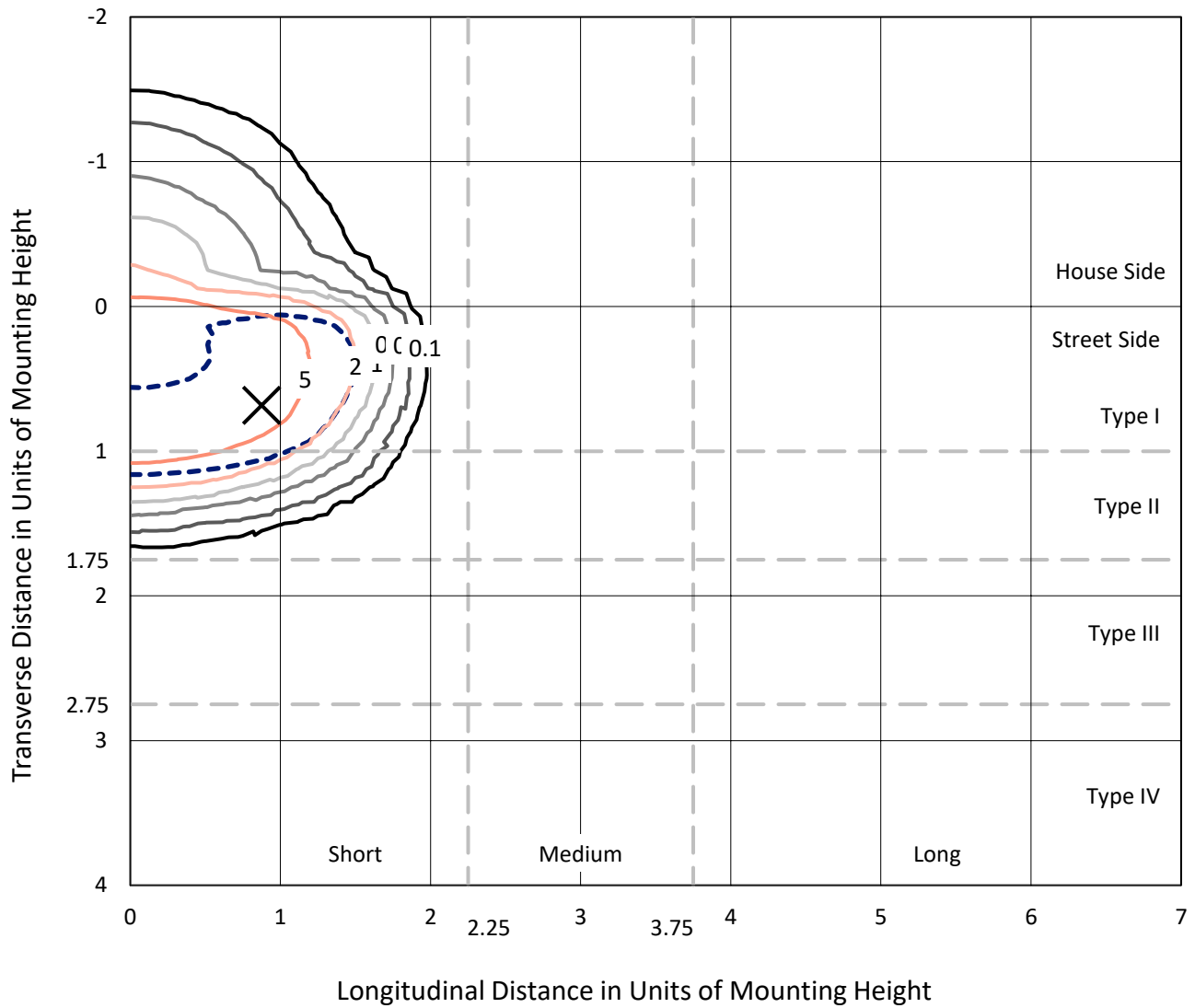
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529293
 CATALOG NUMBER: GALN-SA4C-722-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

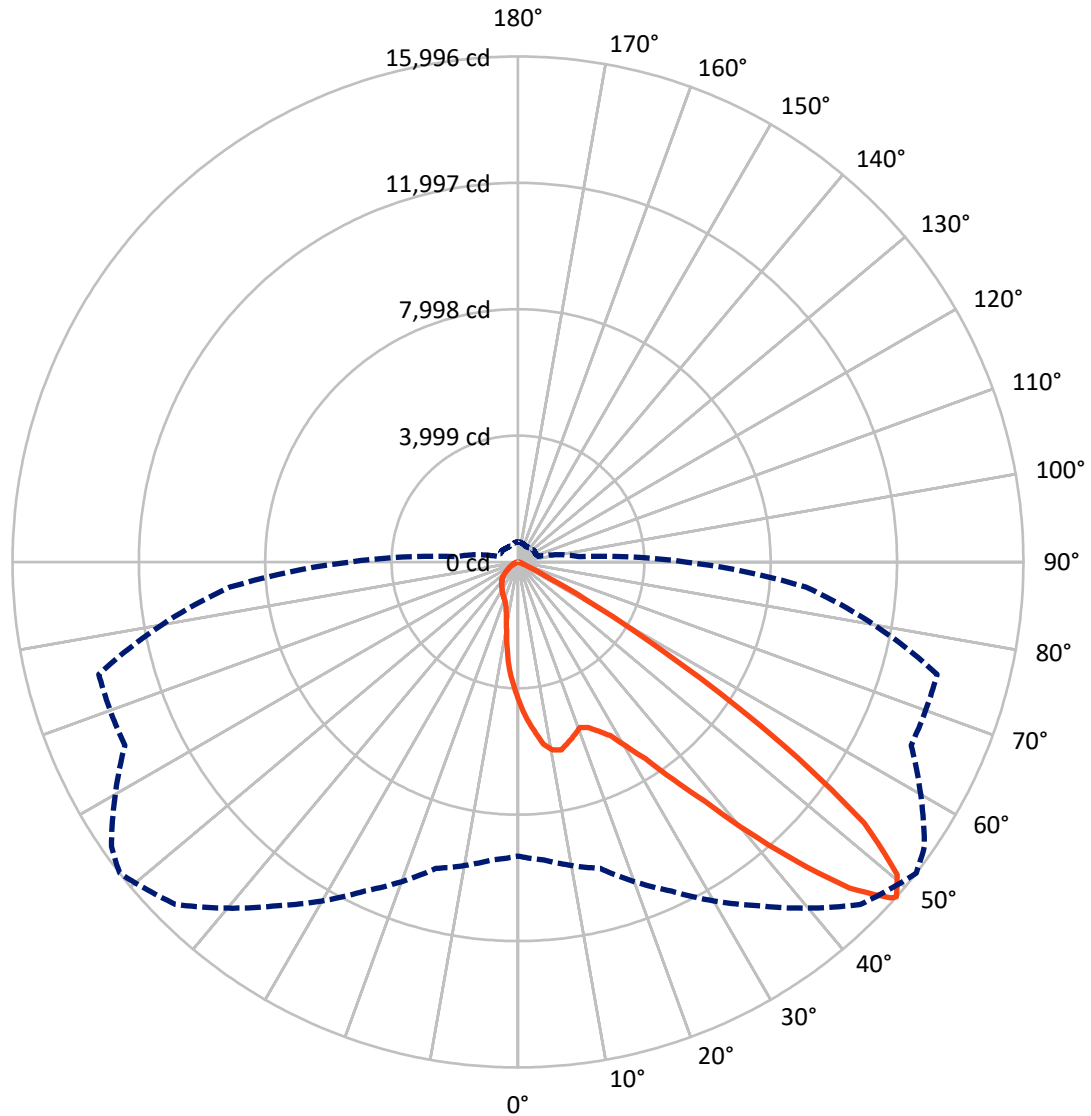
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

REPORT NUMBER: P529293
CATALOG NUMBER: GALN-SA4C-722-U-AFL-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P529293
 CATALOG NUMBER: GALN-SA4C-722-U-AFL-GRSBK

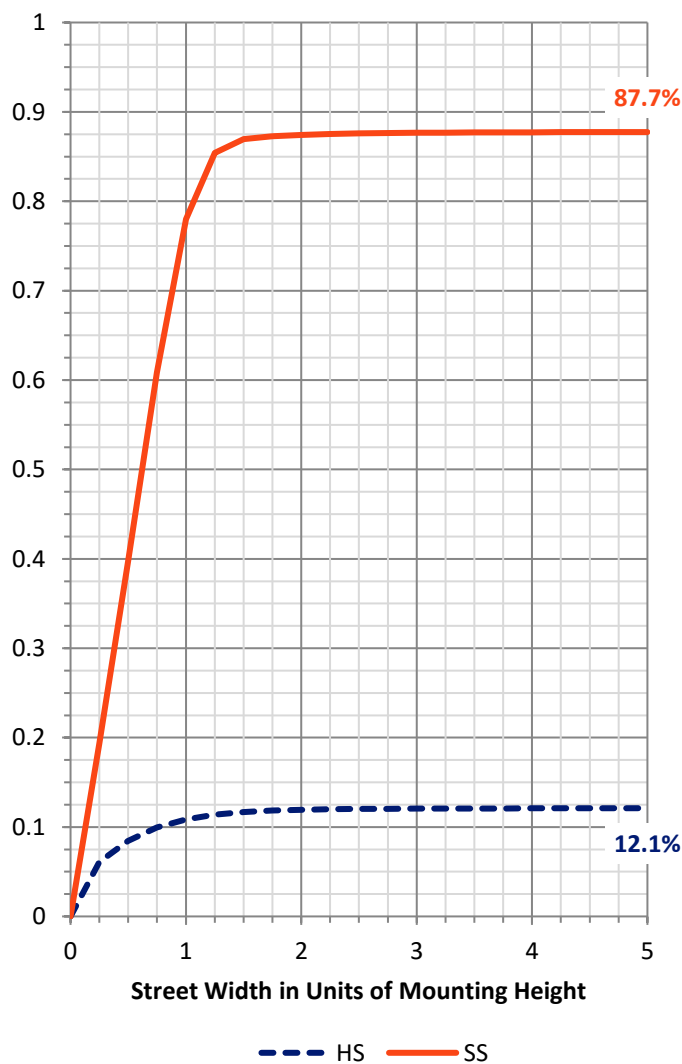
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1856.9	0.0	1856.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13394.1	0.0	13394.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	15251.0	0.0	15251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.1	2.6
10°-20°	1053.5	6.9
20°-30°	1798.7	11.8
30°-40°	3312.3	21.7
40°-50°	5144.1	33.7
50°-60°	3095.9	20.3
60°-70°	358.1	2.3
70°-80°	69.3	0.5
80°-90°	16.0	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°	15251.0	100.0
0°-180°	15251.0	100.0

Coefficient of Utilization



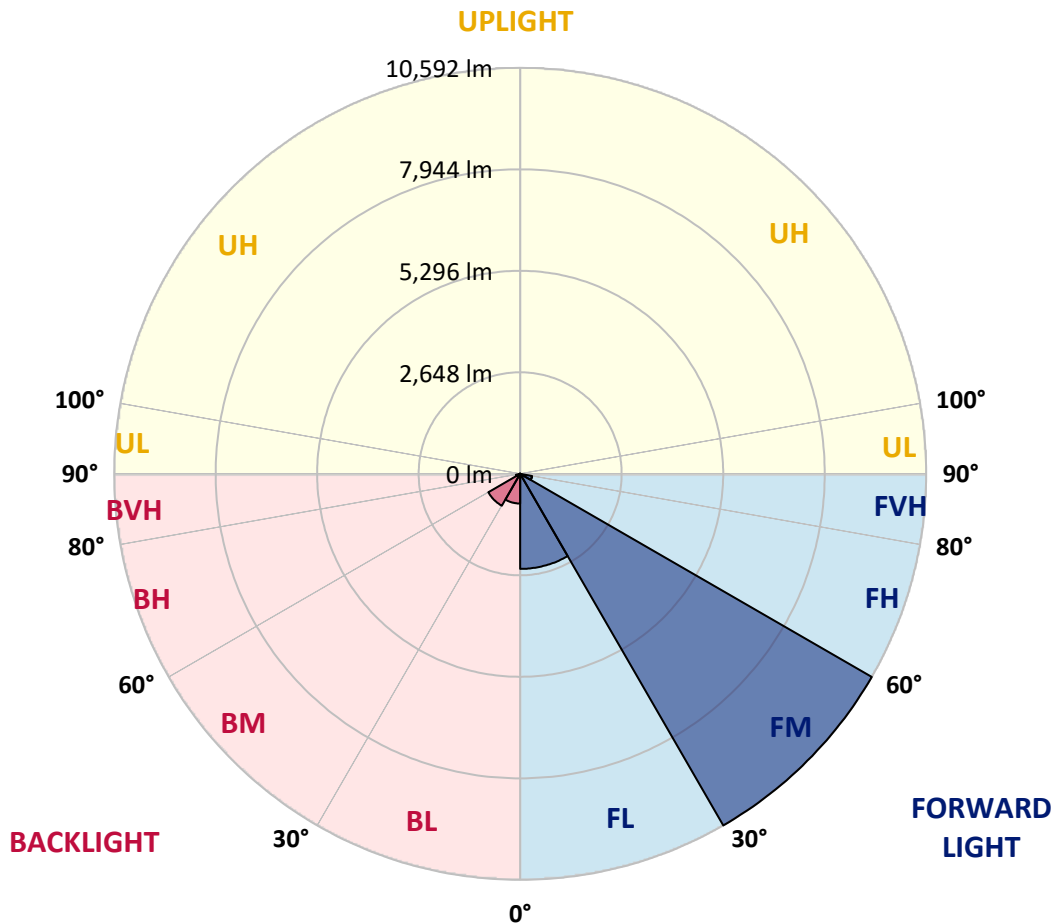
REPORT NUMBER: P529293
 CATALOG NUMBER: GALN-SA4C-722-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2479.6	16.3			
FM (30°-60°)	10591.5	69.4			
FH (60°-80°)	315.3	2.1			G0/660
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	775.7	5.1	B2/1000		
BM (30°-60°)	960.8	6.3	B1/1000		
BH (60°-80°)	112.1	0.7	B1/500		G1/500
BVH (80°-90°)	8.4	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





REPORT NUMBER: P529293

CATALOG NUMBER: GALN-SA4C-722-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2
2.5°	5338.0	5215.7	5226.8	5146.8	5100.1	5024.5	4922.3	4902.2	4791.1	4639.9	4486.5
5°	5818.2	5789.3	5827.1	5711.5	5715.9	5591.4	5351.3	5355.8	5100.1	4853.3	4615.4
7.5°	5849.3	5782.6	5820.4	5922.7	5982.7	5960.5	5824.9	5707.1	5464.7	5102.3	4755.5
10°	5237.9	5364.7	5404.7	5573.7	5813.8	6067.2	6051.7	6058.3	5856.0	5382.5	4875.6
12.5°	4871.1	4786.6	4922.3	5024.5	5386.9	5878.2	6102.8	6151.7	6167.3	5653.7	4995.6
15°	4704.4	4704.4	4726.6	4755.5	5017.8	5471.4	5929.4	6071.7	6407.4	6009.4	5184.6
17.5°	4808.9	4804.4	4835.5	4775.5	4873.3	5222.4	5769.3	5931.6	6676.4	6358.5	5333.5
20°	5126.8	5142.4	5122.3	4948.9	4955.6	5217.9	5591.4	5847.1	6858.7	6660.8	5531.4
22.5°	5569.2	5578.1	5464.7	5275.7	5220.2	5349.1	5693.7	5889.4	7005.4	7023.2	5591.4
25°	6080.6	6045.0	6022.8	5756.0	5587.0	5698.2	5924.9	6038.3	7096.6	7334.5	5762.6
27.5°	6789.8	6718.6	6583.0	6345.1	6220.6	6062.8	6225.1	6411.8	7356.7	7770.2	5949.4
30°	7836.9	7774.7	7510.1	7203.3	6876.5	6720.9	6772.0	6874.3	7825.8	8274.9	6196.2
32.5°	9413.2	9282.0	8899.6	8314.9	7870.3	7441.2	7427.8	7536.8	8246.0	8973.0	6489.6
35°	11149.5	11109.5	10547.0	9944.5	9084.2	8421.6	8432.7	8490.5	9050.8	9889.0	6874.3
37.5°	12303.4	12523.5	12165.6	11518.6	10796.0	9848.9	9608.8	9628.8	10155.8	10973.9	7567.9
40°	13194.9	13008.2	13050.4	12899.2	12405.7	11760.9	11229.6	11125.1	11434.1	12174.5	8257.1
42.5°	12805.9	12814.7	13074.9	13432.8	13555.1	13508.4	12965.9	12768.1	12527.9	13157.1	8913.0
45°	11707.6	11936.6	12274.5	13221.6	14053.1	14833.4	14726.7	14397.7	13283.9	13935.3	9290.9
47.5°	9955.7	9946.8	10500.4	11732.0	13579.5	15407.0	15891.7	15660.5	13819.7	13848.6	9213.1
48°	9308.7	9468.8	10040.1	11489.7	13279.4	15322.6	15996.2	15705.0	13728.5	13732.9	9146.4
50°	6880.9	6852.0	7563.5	9342.0	11861.0	14397.7	15556.0	15782.8	13726.3	13148.2	8679.5
52.5°	3635.0	3759.5	4277.5	5873.8	8386.1	11783.2	13721.8	14075.3	13241.6	12192.2	8008.1
55°	1545.2	1396.2	1794.2	2652.3	4717.7	7872.5	10066.8	10853.9	11196.2	10789.4	7005.4
57.5°	551.4	602.5	693.7	998.2	1983.1	4308.6	6002.7	6614.1	7756.9	7917.0	4773.3
60°	353.5	360.2	389.1	458.0	744.8	1660.8	2848.0	3334.9	3852.9	3977.4	2227.7
62.5°	273.5	275.7	289.0	300.1	353.5	644.7	1069.4	1267.2	1316.2	1131.6	584.7
65°	229.0	231.2	235.7	235.7	251.2	302.4	373.5	411.3	400.2	395.7	331.3
67.5°	175.6	180.1	189.0	189.0	197.9	184.5	206.8	220.1	249.0	302.4	282.4
70°	137.8	140.1	146.7	151.2	151.2	133.4	149.0	162.3	182.3	224.5	222.3
72.5°	106.7	111.2	115.6	115.6	108.9	91.2	106.7	117.8	131.2	155.6	151.2
75°	82.3	82.3	84.5	68.9	53.4	46.7	64.5	77.8	97.8	102.3	84.5
77.5°	22.2	24.5	22.2	20.0	22.2	33.3	42.2	48.9	62.3	62.3	55.6
80°	0.0	2.2	6.7	13.3	22.2	31.1	37.8	42.2	48.9	53.4	51.1
82.5°	0.0	2.2	6.7	13.3	20.0	24.5	33.3	35.6	40.0	46.7	46.7
85°	0.0	2.2	4.4	8.9	13.3	15.6	15.6	13.3	13.3	11.1	8.9
87.5°	0.0	0.0	2.2	4.4	4.4	6.7	6.7	6.7	6.7	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P529293

CATALOG NUMBER: GALN-SA4C-722-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2	4404.2
2.5°	4426.5	4357.5	4253.1	4088.5	3930.7	3828.4	3730.6	3621.7	3561.6	3557.2	3523.8
5°	4479.8	4324.2	4075.2	3792.8	3490.5	3230.4	2968.0	2796.8	2643.4	2558.9	2543.4
7.5°	4508.7	4306.4	3904.0	3430.5	2914.7	2490.0	2196.6	1980.9	1896.4	1834.2	1831.9
10°	4568.8	4275.3	3648.3	2950.2	2312.2	1883.1	1680.8	1582.9	1536.3	1518.5	1491.8
12.5°	4613.2	4217.5	3386.0	2456.7	1827.5	1560.7	1471.8	1449.6	1451.8	1460.7	1449.6
15°	4675.5	4166.3	3032.5	2016.5	1534.0	1405.1	1405.1	1409.5	1440.7	1445.1	1442.9
17.5°	4671.0	4066.3	2667.9	1660.8	1356.2	1338.4	1345.1	1387.3	1407.3	1414.0	1398.4
20°	4724.4	3972.9	2292.2	1418.4	1256.1	1282.8	1327.3	1338.4	1362.8	1367.3	1349.5
22.5°	4708.8	3739.5	1943.1	1227.2	1180.5	1231.7	1276.1	1289.5	1282.8	1269.5	1267.2
25°	4679.9	3539.4	1623.0	1100.5	1125.0	1180.5	1222.8	1198.3	1185.0	1187.2	1189.4
27.5°	4628.8	3285.9	1358.4	1011.6	1049.4	1131.6	1129.4	1120.5	1133.9	1122.7	1133.9
30°	4619.9	3032.5	1140.5	931.5	993.8	1053.8	1058.3	1073.8	1089.4	1069.4	1089.4
32.5°	4633.2	2754.6	984.9	882.6	960.4	962.7	1011.6	1027.1	1016.0	971.6	976.0
35°	4735.5	2541.2	871.5	855.9	907.1	909.3	956.0	936.0	887.1	860.4	876.0
37.5°	4951.2	2363.3	818.2	831.5	835.9	864.8	867.1	827.0	831.5	829.3	838.2
40°	5226.8	2227.7	780.4	809.3	804.8	824.8	744.8	767.0	787.0	793.7	798.1
42.5°	5415.8	2129.9	755.9	773.7	764.8	729.2	684.8	707.0	722.6	747.0	751.5
45°	5500.3	2052.0	727.0	711.4	711.4	647.0	629.2	633.6	669.2	695.9	691.4
47.5°	5362.5	1976.5	675.9	629.2	644.7	591.4	571.4	571.4	609.2	642.5	635.8
48°	5309.1	1945.3	678.1	611.4	622.5	582.5	562.5	558.0	600.3	631.4	631.4
50°	5044.5	1829.7	620.3	562.5	540.2	535.8	522.5	526.9	553.6	582.5	582.5
52.5°	4528.7	1580.7	524.7	482.4	442.4	469.1	475.8	466.9	480.2	506.9	504.7
55°	3779.5	1213.9	420.2	400.2	369.1	398.0	411.3	400.2	386.8	406.9	406.9
57.5°	2421.1	653.6	335.7	340.2	309.0	337.9	349.0	322.4	297.9	313.5	311.3
60°	1091.6	391.3	275.7	269.0	249.0	282.4	300.1	269.0	235.7	246.8	257.9
62.5°	409.1	277.9	209.0	204.5	200.1	231.2	240.1	215.7	182.3	189.0	191.2
65°	300.1	244.6	166.7	151.2	160.1	182.3	177.9	153.4	131.2	131.2	135.6
67.5°	255.7	213.4	135.6	117.8	117.8	120.1	111.2	97.8	91.2	95.6	100.0
70°	200.1	169.0	106.7	91.2	82.3	73.4	64.5	62.3	55.6	62.3	60.0
72.5°	128.9	113.4	82.3	68.9	62.3	51.1	42.2	40.0	33.3	31.1	31.1
75°	68.9	68.9	64.5	55.6	48.9	40.0	33.3	26.7	17.8	13.3	13.3
77.5°	48.9	53.4	57.8	53.4	44.5	33.3	26.7	17.8	8.9	4.4	4.4
80°	46.7	53.4	57.8	51.1	44.5	33.3	24.5	13.3	6.7	2.2	2.2
82.5°	42.2	48.9	53.4	46.7	40.0	28.9	22.2	13.3	6.7	2.2	2.2
85°	8.9	11.1	13.3	13.3	15.6	20.0	15.6	11.1	4.4	2.2	2.2
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	4.4	4.4	2.2	2.2	2.2
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)