

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: P529389

Luminaire Tested: **GALN-SA4C-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15757 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

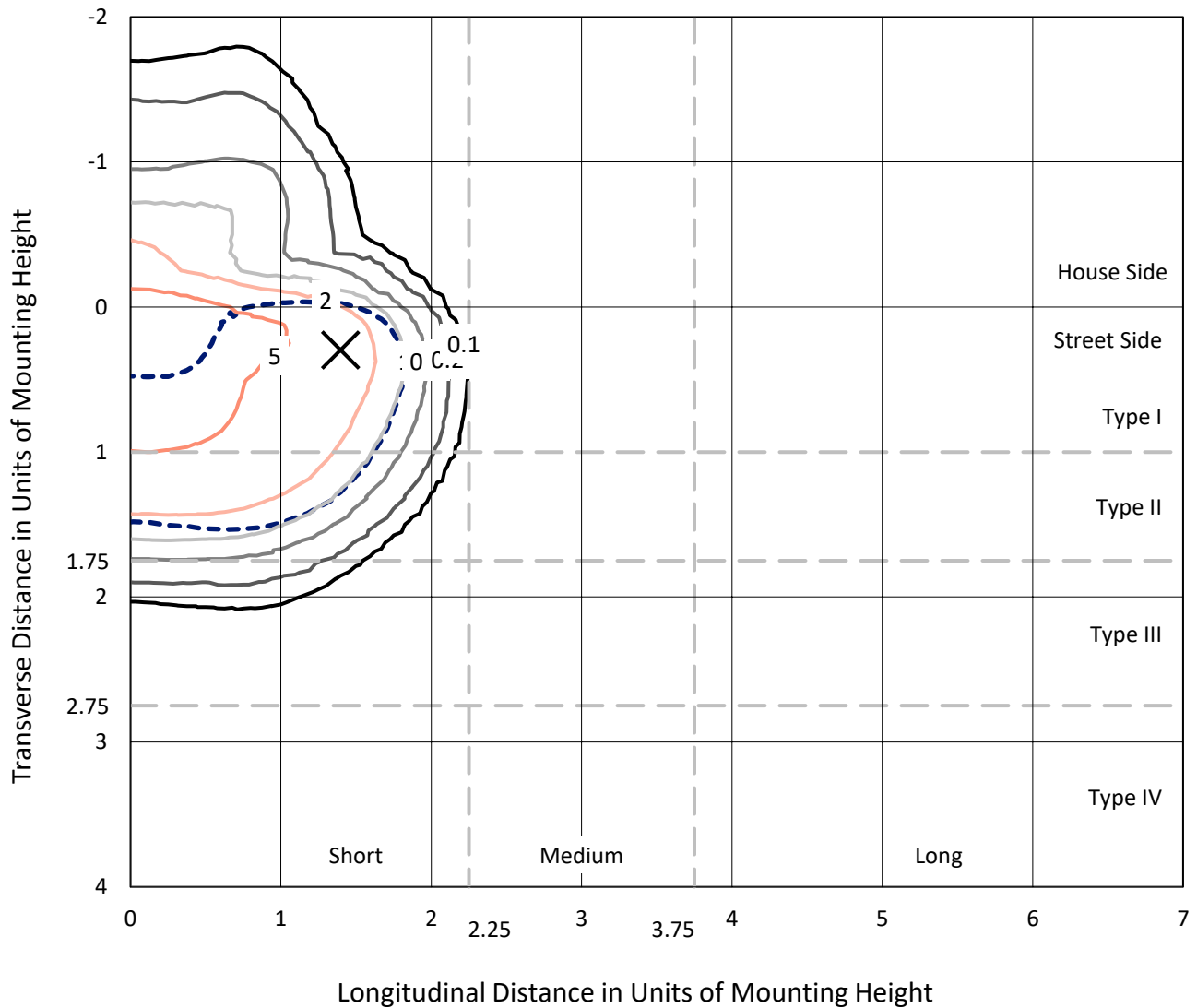
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529389
 CATALOG NUMBER: GALN-SA4C-735-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

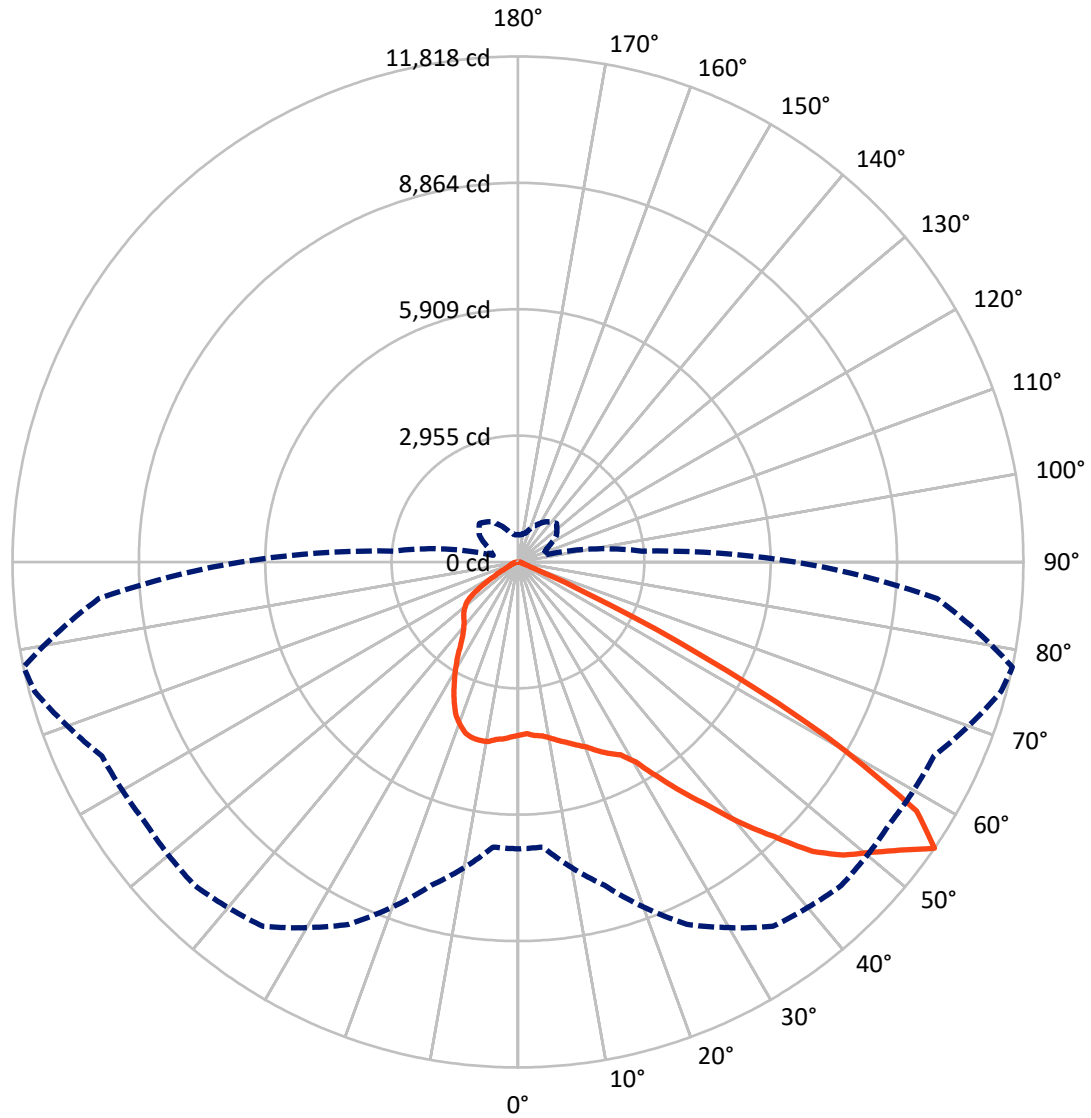
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

REPORT NUMBER: P529389
CATALOG NUMBER: GALN-SA4C-735-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P529389
 CATALOG NUMBER: GALN-SA4C-735-U-T3R-GRSBK

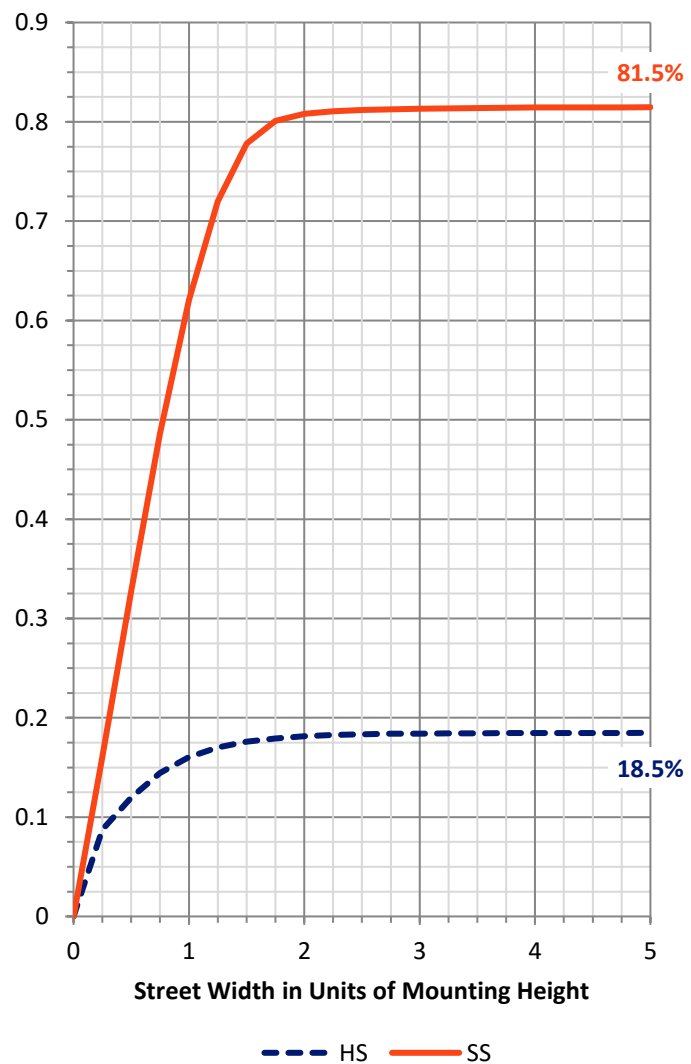
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2926.7	0.0	2926.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12830.3	0.0	12830.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	15757.0	0.0	15757.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.2	2.3
10°-20°	956.0	6.1
20°-30°	1675.7	10.6
30°-40°	2763.0	17.5
40°-50°	4020.6	25.5
50°-60°	4555.7	28.9
60°-70°	1302.6	8.3
70°-80°	101.1	0.6
80°-90°	21.0	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°	15757.0	100.0
0°-180°	15757.0	100.0



REPORT NUMBER: P529389

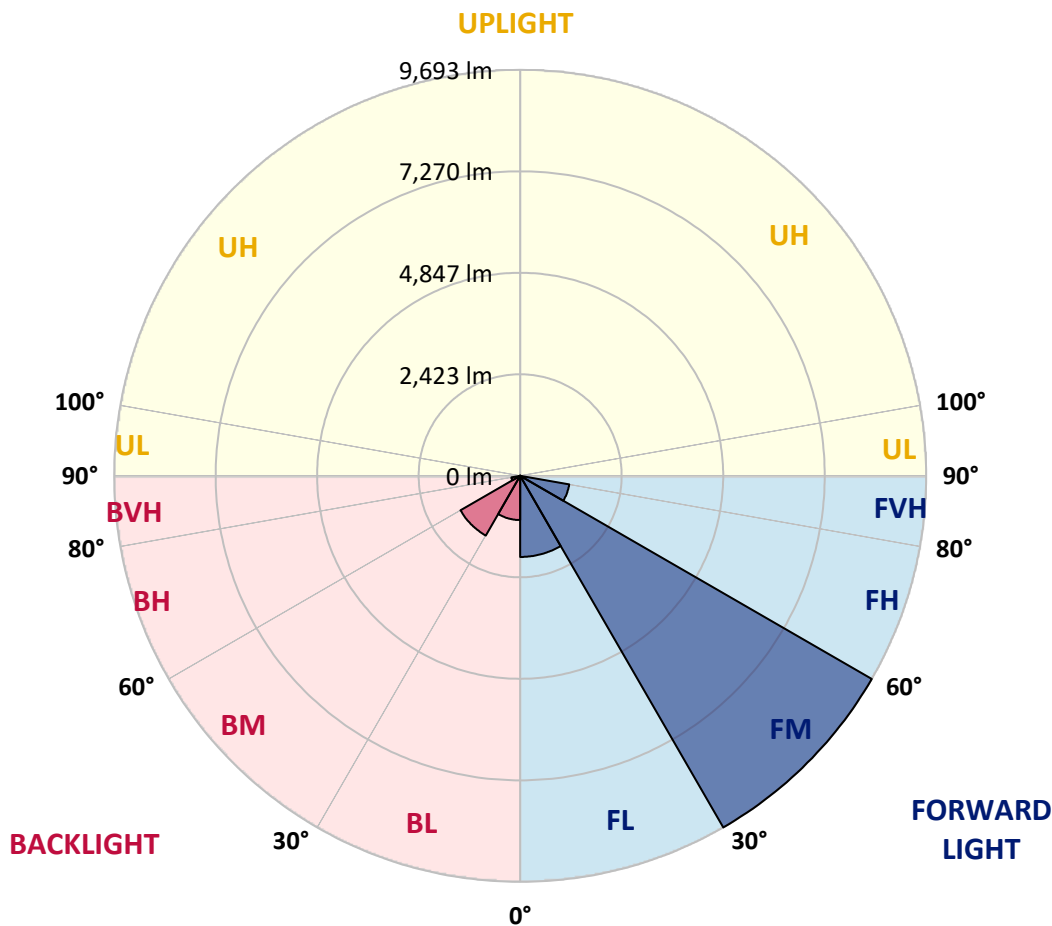
CATALOG NUMBER: GALN-SA4C-735-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1937.0	12.3			
FM (30°-60°)	9693.0	61.5			
FH (60°-80°)	1190.1	7.6			G1/1800
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	1056.0	6.7	B3/2500		
BM (30°-60°)	1646.3	10.4	B2/2500		
BH (60°-80°)	213.6	1.4	B1/500		G1/500
BVH (80°-90°)	10.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





REPORT NUMBER: P529389

CATALOG NUMBER: GALN-SA4C-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4051.1	4051.1	4051.1	4051.1	4051.1	4051.1	4051.1	4051.1	4051.1	4051.1	4051.1
2.5°	3808.9	3845.5	3851.1	3896.2	3893.4	3969.4	3992.0	3994.8	4045.5	4020.1	4084.9
5°	3701.8	3682.1	3673.6	3752.5	3775.0	3842.7	3899.0	3932.8	4037.0	4073.7	4141.3
7.5°	3606.0	3606.0	3611.7	3682.1	3673.6	3761.0	3820.1	3924.4	4076.5	4107.5	4189.2
10°	3513.0	3479.2	3521.5	3594.7	3656.7	3696.2	3820.1	3918.7	4096.2	4186.4	4299.0
12.5°	3465.2	3482.1	3487.7	3541.2	3608.8	3727.2	3794.8	3958.2	4237.1	4290.6	4411.7
15°	3766.6	3732.8	3651.1	3603.2	3659.5	3715.9	3884.9	4051.1	4310.3	4386.4	4521.6
17.5°	4115.9	4087.8	4020.1	3890.6	3763.8	3868.0	4000.4	4152.6	4389.2	4501.9	4701.9
20°	4572.3	4527.2	4459.6	4206.1	4096.2	3983.5	4124.4	4304.7	4518.8	4620.2	4825.9
22.5°	5116.0	5116.0	4963.9	4656.8	4428.6	4321.6	4380.7	4485.0	4662.5	4800.5	5003.3
25°	5682.3	5665.4	5527.3	5209.0	4823.0	4696.3	4763.9	4837.1	4885.0	4961.1	5096.3
27.5°	6330.2	6231.6	6057.0	5704.8	5363.9	5118.9	5192.1	5127.3	5068.1	5107.6	5302.0
30°	6769.7	6831.7	6609.2	6271.1	5949.9	5676.7	5690.7	5634.4	5363.9	5420.3	5535.8
32.5°	7226.1	7265.6	7141.6	6955.7	6634.5	6316.2	6200.7	6152.8	5949.9	5975.3	5862.6
35°	7606.4	7682.5	7572.6	7490.9	7398.0	7141.6	6823.3	6978.2	6651.4	6589.4	6296.4
37.5°	7955.8	7933.2	8062.8	7978.3	7958.6	7778.3	7429.0	7459.9	7240.2	7226.1	6888.1
40°	8268.5	8274.1	8451.6	8491.0	8412.2	8091.0	7583.9	7829.0	8006.5	8023.4	7589.5
42.5°	8527.7	8603.7	8755.9	9074.2	8955.9	8420.6	7744.5	8012.1	8671.3	8775.6	8254.4
45°	8753.0	8908.0	9096.7	9381.3	9313.7	8888.3	8144.5	8389.6	9381.3	9654.5	8879.8
47.5°	8767.1	8970.0	9175.6	9598.2	9682.7	9139.0	8558.7	8986.9	9944.7	10240.5	9336.2
50°	8710.8	8817.8	9229.1	9688.4	9879.9	9547.5	9139.0	9488.3	10491.3	10677.2	9567.2
52.5°	8043.1	8124.8	8950.2	9772.9	10234.9	10009.5	9908.1	10187.0	11049.1	11187.1	9784.1
55°	6704.9	6690.9	7826.2	9347.5	10398.3	10694.1	10632.1	10730.7	11694.2	11818.2	9837.7
57.5°	4586.4	4842.8	5823.2	7783.9	9398.2	10533.5	10598.3	10434.9	10942.0	10989.9	8575.6
60°	2473.5	2580.6	3369.4	5194.9	7155.7	8584.0	8753.0	8457.2	8417.8	8282.6	6121.8
62.5°	983.2	1036.7	1484.7	2572.1	3899.0	5217.5	5580.9	5459.7	5200.6	4845.6	3169.4
65°	467.7	501.5	738.1	1202.9	1729.8	2174.9	2538.3	2651.0	1955.1	1760.8	1045.2
67.5°	318.3	343.7	538.1	687.4	617.0	645.1	839.5	780.4	459.2	391.6	290.2
70°	242.3	259.2	431.0	467.7	276.1	194.4	216.9	202.8	188.8	191.6	188.8
72.5°	171.8	185.9	315.5	276.1	121.1	90.2	115.5	138.0	138.0	138.0	135.2
75°	104.2	118.3	183.1	107.1	47.9	47.9	73.2	93.0	98.6	101.4	95.8
77.5°	53.5	67.6	62.0	31.0	31.0	36.6	53.5	64.8	70.4	70.4	67.6
80°	11.3	11.3	11.3	16.9	31.0	39.4	53.5	59.2	67.6	67.6	62.0
82.5°	0.0	2.8	8.5	16.9	28.2	36.6	50.7	59.2	67.6	70.4	64.8
85°	0.0	2.8	5.6	11.3	19.7	22.5	19.7	16.9	16.9	16.9	16.9
87.5°	0.0	0.0	2.8	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6
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: P529389

CATALOG NUMBER: GALN-SA4C-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4051.1	4051.1	4051.1	4051.1	4051.1	4051.1	4051.1	4051.1	4051.1	4051.1	4051.1
2.5°	4090.6	4099.0	4084.9	4082.1	4070.9	4104.7	4023.0	4003.2	4054.0	4006.1	4017.3
5°	4144.1	4163.8	4138.5	4096.2	4034.2	3938.4	3856.7	3749.7	3699.0	3662.4	3656.7
7.5°	4183.5	4197.6	4172.3	4037.0	3851.1	3608.8	3428.5	3296.1	3191.9	3160.9	3110.2
10°	4344.1	4346.9	4220.2	3921.5	3558.1	3239.8	2963.7	2760.9	2656.6	2591.8	2563.7
12.5°	4451.2	4445.5	4189.2	3693.3	3208.8	2786.2	2470.7	2225.6	2129.8	2098.8	2079.1
15°	4586.4	4555.4	4115.9	3459.5	2758.0	2301.7	2017.1	1848.1	1839.6	1819.9	1839.6
17.5°	4693.5	4606.1	4008.9	3034.1	2327.0	1896.0	1710.0	1721.3	1743.8	1763.6	1766.4
20°	4868.1	4687.8	3763.8	2662.3	1927.0	1625.5	1622.7	1673.4	1729.8	1752.3	1774.8
22.5°	5000.5	4721.6	3501.8	2265.0	1600.2	1515.7	1563.5	1639.6	1681.9	1704.4	1738.2
25°	5048.4	4628.7	3152.4	1867.8	1442.4	1464.9	1538.2	1588.9	1642.4	1667.8	1653.7
27.5°	5096.3	4580.8	2735.5	1538.2	1357.9	1431.1	1493.1	1543.8	1560.7	1594.5	1617.1
30°	5211.8	4414.6	2360.8	1329.7	1315.6	1408.6	1453.7	1470.6	1515.7	1535.4	1535.4
32.5°	5304.8	4349.8	1963.6	1231.1	1310.0	1419.9	1425.5	1425.5	1431.1	1417.1	1411.4
35°	5496.4	4127.2	1608.6	1172.0	1307.2	1422.7	1436.8	1388.9	1259.3	1208.6	1194.5
37.5°	5733.0	3983.5	1346.6	1157.9	1326.9	1456.5	1479.0	1298.7	1129.7	1048.0	1033.9
40°	6020.4	3882.1	1174.8	1152.2	1372.0	1535.4	1467.8	1228.3	1008.6	890.2	884.6
42.5°	6355.6	3789.1	1059.3	1149.4	1428.3	1617.1	1456.5	1169.1	884.6	805.7	817.0
45°	6623.2	3738.4	980.4	1129.7	1448.0	1665.0	1464.9	1064.9	833.9	783.2	788.8
47.5°	6831.7	3631.4	915.6	1095.9	1445.2	1681.9	1388.9	1022.6	808.5	822.6	836.7
50°	6837.3	3487.7	833.9	1022.6	1403.0	1650.9	1301.5	983.2	802.9	862.1	890.2
52.5°	6761.3	3284.9	746.6	918.4	1304.4	1543.8	1222.7	966.3	777.5	771.9	805.7
55°	6490.8	2904.5	600.1	743.7	1101.5	1273.4	1152.2	935.3	701.5	636.7	642.3
57.5°	5245.6	2081.9	442.3	532.5	780.4	932.5	1039.5	921.2	631.1	540.9	543.7
60°	3248.2	1180.4	324.0	363.4	481.7	566.3	842.3	856.4	563.4	456.4	450.8
62.5°	1667.8	583.2	250.7	256.4	295.8	332.4	577.5	718.4	509.9	433.8	433.8
65°	557.8	287.4	219.7	197.2	197.2	205.7	349.3	498.6	431.0	363.4	363.4
67.5°	239.5	214.1	191.6	171.8	157.8	149.3	197.2	290.2	321.2	276.1	264.8
70°	185.9	180.3	166.2	143.7	124.0	112.7	115.5	149.3	183.1	177.5	171.8
72.5°	138.0	138.0	132.4	112.7	95.8	81.7	76.1	78.9	87.3	90.2	93.0
75°	95.8	98.6	98.6	87.3	70.4	59.2	50.7	42.3	33.8	28.2	25.4
77.5°	64.8	67.6	73.2	64.8	53.5	39.4	31.0	22.5	14.1	5.6	5.6
80°	56.3	64.8	70.4	64.8	56.3	42.3	31.0	16.9	8.5	0.0	0.0
82.5°	59.2	64.8	73.2	62.0	53.5	39.4	31.0	19.7	8.5	2.8	0.0
85°	14.1	14.1	16.9	19.7	25.4	28.2	22.5	14.1	8.5	2.8	0.0
87.5°	5.6	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	0.0	0.0
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)