

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: P530781

Luminaire Tested: **GALN-SA6A-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14773 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

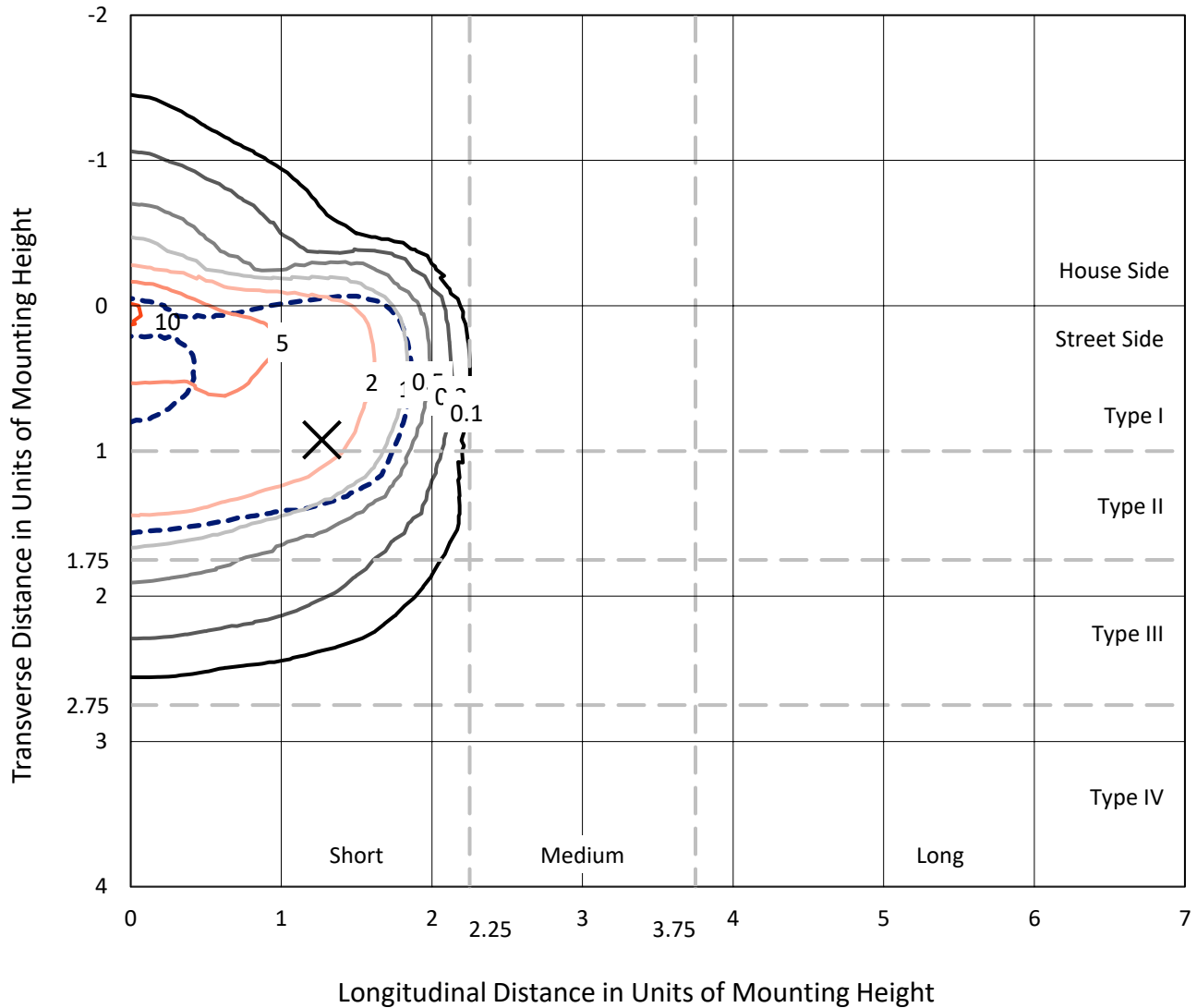
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

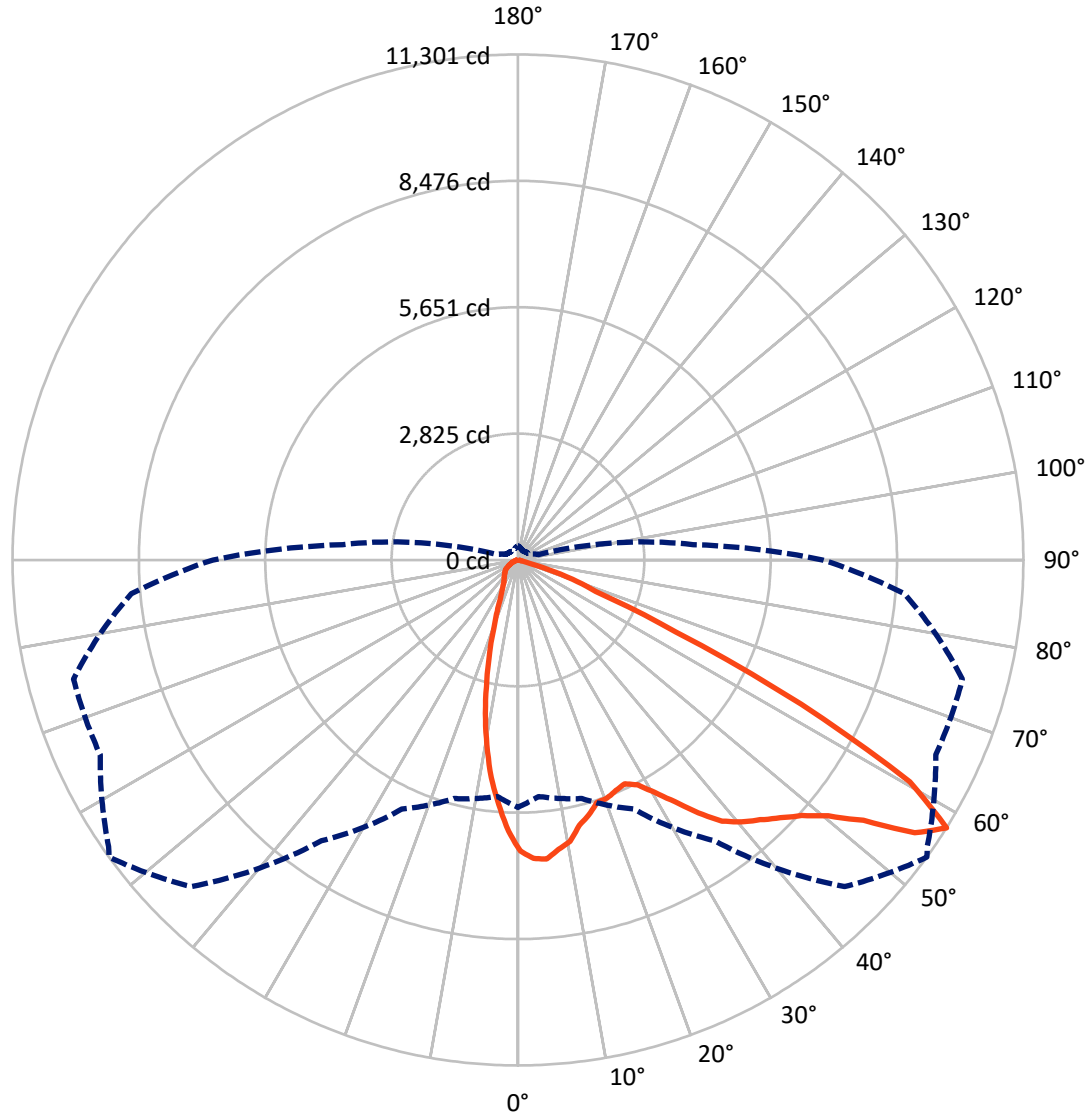
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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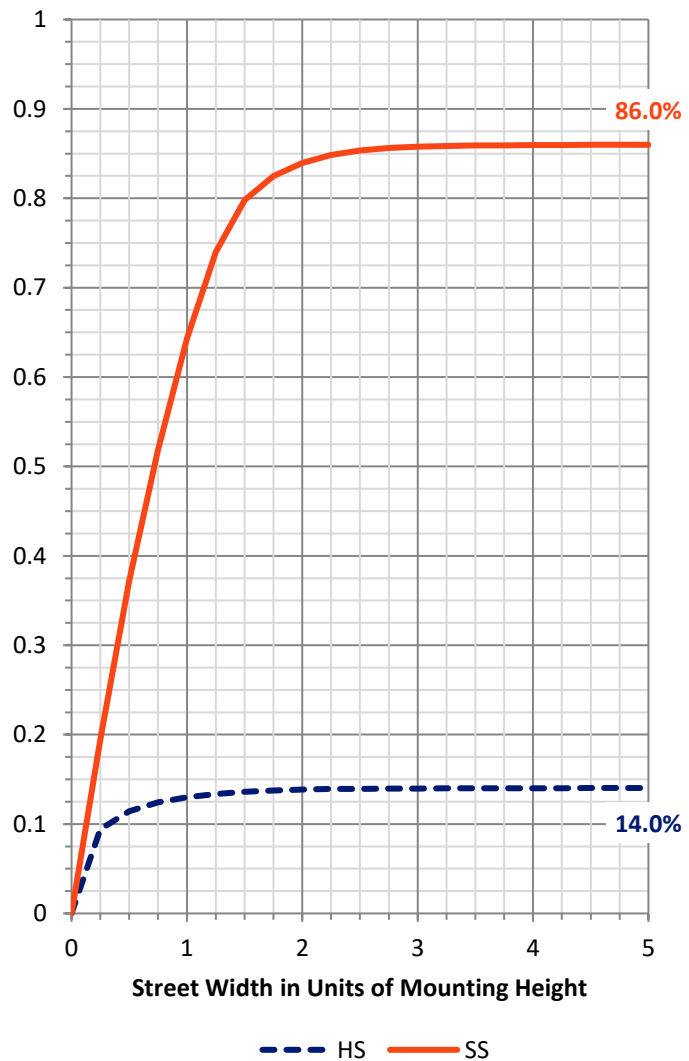
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2087.7	0.0	2087.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	12685.3	0.0	12685.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	14773.0	0.0	14773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.6	3.7
10°-20°	1162.7	7.9
20°-30°	1540.8	10.4
30°-40°	2239.2	15.2
40°-50°	3320.4	22.5
50°-60°	4152.0	28.1
60°-70°	1637.8	11.1
70°-80°	163.1	1.1
80°-90°	12.7	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°	14773.0	100.0
0°-180°	14773.0	100.0

Coefficient of Utilization



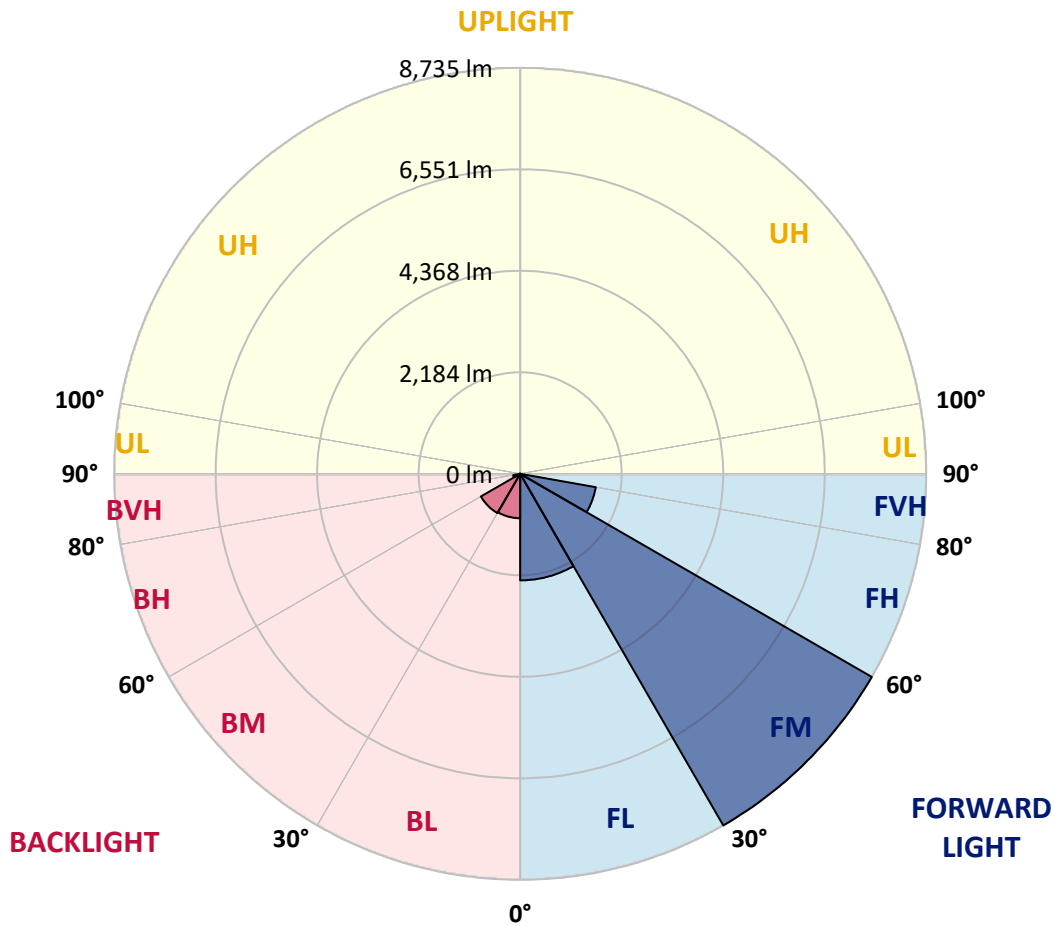
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2293.2	15.5			
FM (30°-60°)	8735.2	59.1			
FH (60°-80°)	1651.1	11.2			G1/1800
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	954.8	6.5	B2/1000		
BM (30°-60°)	976.2	6.6	B1/1000		
BH (60°-80°)	149.7	1.0	B1/500		G1/500
BVH (80°-90°)	6.9	0.0			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°	54°	55°	65°	75°	85°
0°	6507.7	6507.7	6507.7	6507.7	6507.7	6507.7	6507.7	6507.7	6507.7	6507.7	6507.7
2.5°	6886.8	6815.4	6820.9	6796.1	6763.2	6787.9	6680.8	6705.5	6702.7	6557.2	6461.0
5°	6713.7	6790.6	6711.0	6776.9	6713.7	6782.4	6716.5	6667.0	6587.4	6480.2	6301.7
7.5°	6419.8	6345.6	6367.6	6450.0	6463.8	6617.6	6535.2	6598.4	6565.4	6353.9	6109.4
10°	5829.2	5812.7	5922.6	6032.5	6167.1	6331.9	6395.1	6359.4	6334.6	6255.0	5928.1
12.5°	5375.9	5422.6	5419.9	5601.2	5829.2	5922.6	6087.4	6081.9	6219.3	6070.9	5757.8
15°	4944.6	4969.4	5084.7	5197.4	5450.1	5716.6	5919.8	5947.3	6112.1	6007.7	5625.9
17.5°	4680.9	4645.2	4735.9	4870.5	5128.7	5477.6	5702.8	5768.8	5994.0	5972.0	5474.8
20°	4420.0	4420.0	4494.1	4653.5	4889.7	5282.5	5683.6	5664.4	5994.0	5930.8	5312.7
22.5°	4332.1	4376.0	4395.2	4516.1	4796.3	5134.2	5601.2	5636.9	6040.7	5911.6	5241.3
25°	4452.9	4395.2	4400.7	4496.9	4760.6	5062.8	5540.8	5620.4	6125.9	6007.7	5183.6
27.5°	4472.2	4529.8	4546.3	4612.3	4788.1	5084.7	5691.8	5853.9	6337.4	6233.0	5200.1
30°	4639.7	4697.4	4694.7	4807.3	4928.2	5263.3	6029.7	6062.7	6774.2	6515.9	5301.8
32.5°	4843.0	4903.4	4922.7	5054.5	5150.7	5590.2	6441.8	6526.9	7194.5	6961.0	5568.2
35°	5095.7	5073.8	5161.7	5293.5	5499.5	6068.2	6944.5	7087.3	7647.7	7537.8	5842.9
37.5°	5411.6	5384.2	5469.3	5683.6	5963.8	6634.1	7408.7	7502.1	7977.4	8073.5	6351.1
40°	5634.2	5645.1	5903.4	6191.8	6488.5	7172.5	7702.7	7793.3	8208.1	8573.5	6735.7
42.5°	6005.0	6073.7	6384.1	6735.7	7046.1	7576.3	7941.7	8029.6	8315.2	8974.5	7254.9
45°	6543.4	6513.2	6856.6	7249.4	7592.8	7996.6	8224.6	8194.4	8378.4	9372.9	7581.8
47.5°	7235.7	7241.2	7469.2	7804.3	8161.4	8361.9	8540.5	8433.4	8510.3	9793.1	8018.6
50°	7708.2	7749.4	7933.4	8276.8	8455.3	8763.0	8991.0	8925.1	8900.4	10045.9	8293.3
52.5°	7829.0	7952.6	8051.5	8480.1	8897.6	9383.8	9675.0	9815.1	9375.6	10131.0	8642.1
55°	6917.0	7026.9	7375.8	7963.6	9065.2	10367.3	10768.3	10771.1	9996.4	10510.1	8886.6
57.5°	5529.8	5307.3	5521.5	6145.1	7664.2	10326.1	11301.3	11172.2	10306.8	10287.6	8675.1
60°	3823.9	3768.9	3782.7	4029.9	5304.5	8213.6	10070.6	10238.2	9491.0	8916.8	6867.6
62.5°	3030.0	2983.3	2922.8	2895.4	3293.7	5117.7	7103.8	7340.1	6636.8	5782.5	4071.1
65°	2373.4	2346.0	2354.2	2464.1	2461.3	2903.6	3884.3	3788.1	3032.7	2241.6	1280.1
67.5°	1601.5	1642.7	1675.7	2008.1	2178.4	2021.8	1876.2	1821.3	986.2	414.8	282.9
70°	901.0	906.5	942.2	1255.4	1653.7	1568.6	1293.8	1293.8	491.7	151.1	162.1
72.5°	491.7	475.2	442.3	541.2	736.2	747.2	576.9	502.7	145.6	98.9	90.7
75°	239.0	236.2	203.3	167.6	159.3	131.9	101.6	93.4	65.9	63.2	54.9
77.5°	49.4	46.7	24.7	24.7	27.5	30.2	38.5	38.5	46.7	46.7	38.5
80°	0.0	0.0	2.7	11.0	19.2	27.5	33.0	33.0	38.5	38.5	30.2
82.5°	0.0	0.0	2.7	8.2	16.5	24.7	30.2	33.0	38.5	41.2	33.0
85°	0.0	0.0	0.0	5.5	13.7	19.2	16.5	16.5	13.7	11.0	5.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6507.7	6507.7	6507.7	6507.7	6507.7	6507.7	6507.7	6507.7	6507.7	6507.7	6507.7
2.5°	6411.6	6406.1	6279.7	6208.3	6079.2	5966.5	5875.9	5810.0	5810.0	5768.8	5730.3
5°	6230.3	6183.6	5914.3	5741.3	5496.8	5315.5	5191.9	5095.7	4944.6	4985.9	4823.8
7.5°	6005.0	5886.9	5529.8	5266.0	4928.2	4669.9	4406.2	4172.7	3947.5	3845.8	3900.8
10°	5763.3	5557.2	5076.5	4659.0	4238.7	3766.2	3458.5	3084.9	2854.2	2840.4	2780.0
12.5°	5507.8	5274.3	4689.2	4112.3	3560.1	2991.5	2521.8	2172.9	2016.3	1843.3	1876.2
15°	5315.5	4969.4	4257.9	3562.9	2829.4	2255.3	1782.8	1513.6	1365.3	1324.1	1310.3
17.5°	5106.7	4735.9	3818.4	2977.8	2219.6	1623.5	1282.9	1153.8	1096.1	1096.1	1087.8
20°	4889.7	4472.2	3381.6	2433.9	1664.7	1211.4	1027.4	986.2	983.4	980.7	980.7
22.5°	4746.9	4170.0	2986.0	1933.9	1255.4	969.7	892.8	876.3	887.3	920.3	920.3
25°	4595.8	3878.8	2549.2	1491.6	972.4	832.3	788.4	799.4	826.9	857.1	846.1
27.5°	4441.9	3689.3	2137.2	1170.2	796.6	728.0	711.5	736.2	766.4	793.9	785.6
30°	4406.2	3486.0	1747.1	887.3	684.0	634.6	645.6	667.5	697.7	708.7	719.7
32.5°	4461.2	3326.6	1431.2	728.0	596.1	582.4	582.4	593.4	612.6	637.3	629.1
35°	4617.8	3236.0	1131.8	631.8	546.7	532.9	530.2	541.2	552.2	560.4	552.2
37.5°	4856.7	3164.6	925.7	560.4	513.7	491.7	486.2	483.5	494.5	497.2	502.7
40°	5161.7	3203.0	785.6	516.4	480.7	456.0	439.5	439.5	439.5	447.8	450.5
42.5°	5491.3	3255.2	678.5	491.7	450.5	420.3	403.8	398.3	403.8	414.8	412.1
45°	5837.4	3356.9	609.8	453.3	423.0	384.6	362.6	357.1	370.8	392.8	390.1
47.5°	6161.6	3502.5	557.6	428.5	395.6	359.9	332.4	326.9	351.6	381.8	384.6
50°	6485.7	3755.2	538.4	409.3	376.3	335.1	310.4	304.9	332.4	370.8	379.1
52.5°	6859.3	4027.1	524.7	384.6	354.4	315.9	288.4	282.9	313.2	362.6	365.4
55°	7103.8	4257.9	513.7	340.6	313.2	285.7	263.7	261.0	293.9	337.9	348.9
57.5°	6818.1	3936.5	475.2	296.7	266.5	252.7	233.5	233.5	261.0	302.2	310.4
60°	5169.9	2590.4	337.9	239.0	225.3	217.0	208.8	208.8	230.8	261.0	263.7
62.5°	3027.2	1395.5	217.0	192.3	192.3	184.1	170.3	170.3	192.3	208.8	211.5
65°	898.3	447.8	175.8	164.8	162.1	148.3	134.6	131.9	148.3	156.6	153.8
67.5°	258.2	206.0	145.6	137.4	134.6	112.6	104.4	101.6	104.4	98.9	96.1
70°	153.8	140.1	112.6	115.4	101.6	82.4	74.2	71.4	65.9	57.7	52.2
72.5°	85.2	85.2	82.4	87.9	71.4	54.9	46.7	38.5	30.2	24.7	22.0
75°	52.2	54.9	57.7	60.4	46.7	35.7	30.2	19.2	11.0	5.5	5.5
77.5°	35.7	38.5	41.2	44.0	38.5	33.0	24.7	13.7	2.7	0.0	0.0
80°	27.5	30.2	35.7	38.5	41.2	44.0	33.0	13.7	2.7	0.0	0.0
82.5°	30.2	33.0	41.2	38.5	38.5	38.5	30.2	13.7	2.7	0.0	0.0
85°	5.5	8.2	13.7	13.7	19.2	24.7	19.2	5.5	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)