

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: P530727

Luminaire Tested: **GALN-SA6A-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530727  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-727-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13238 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

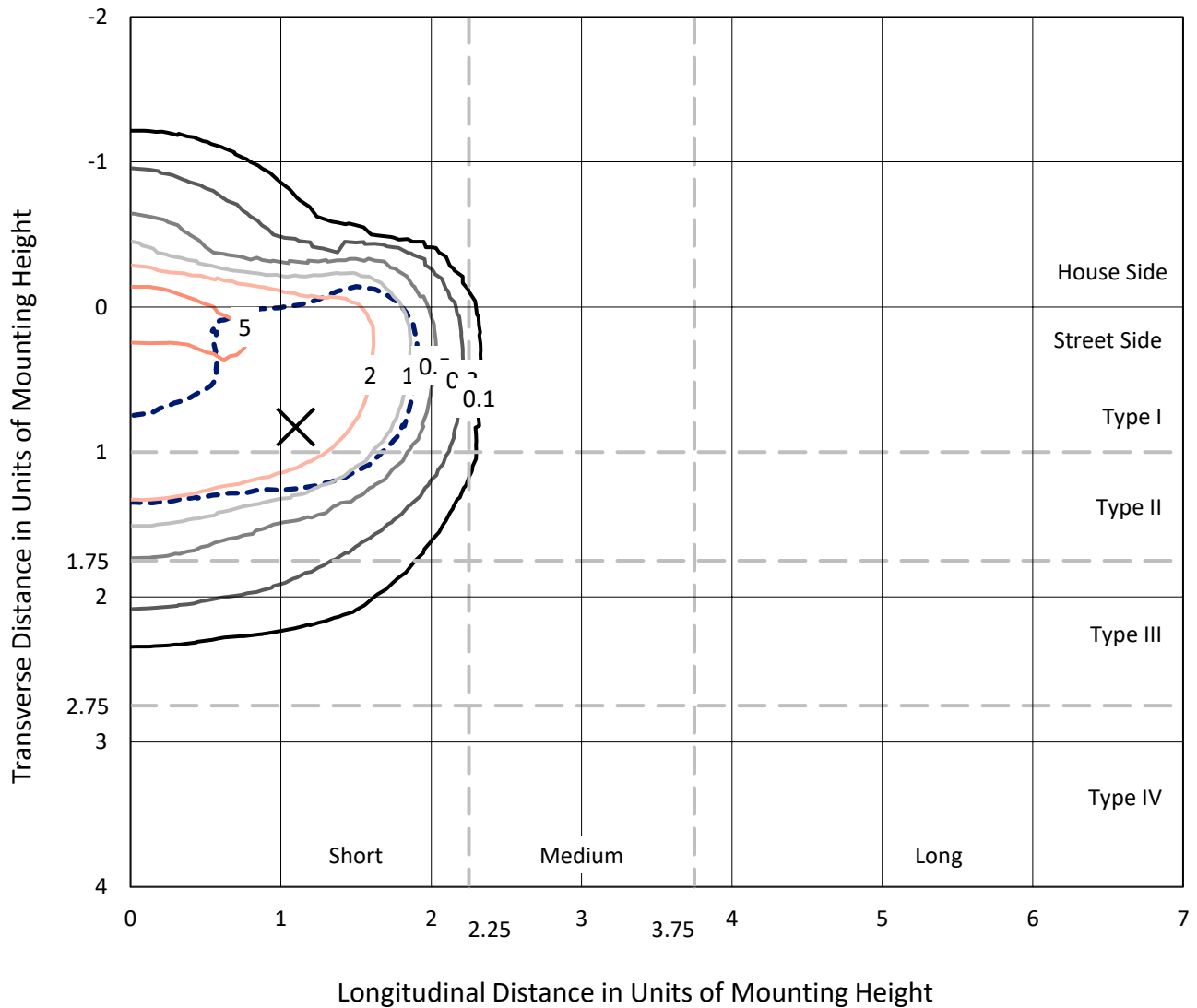
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

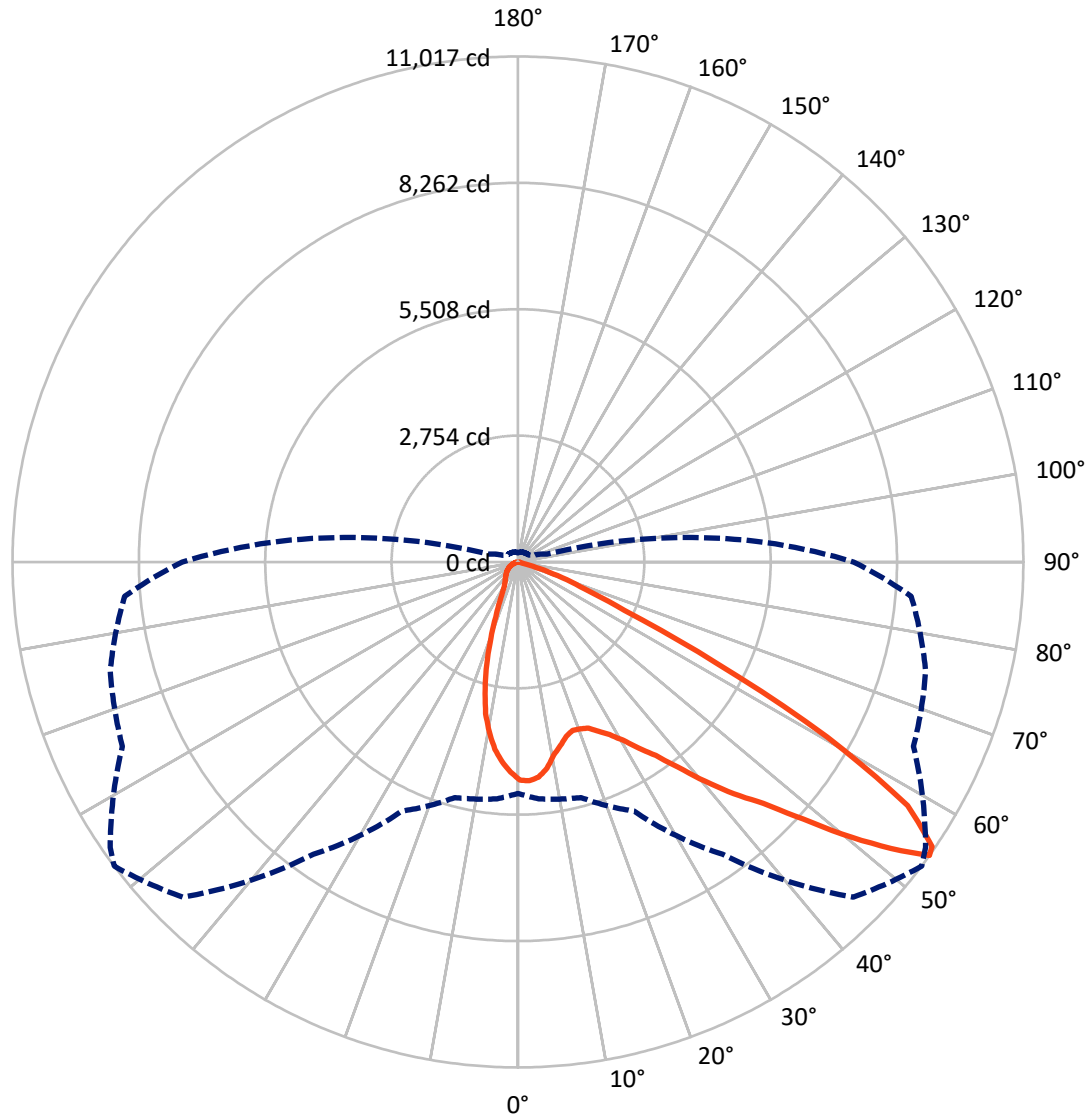
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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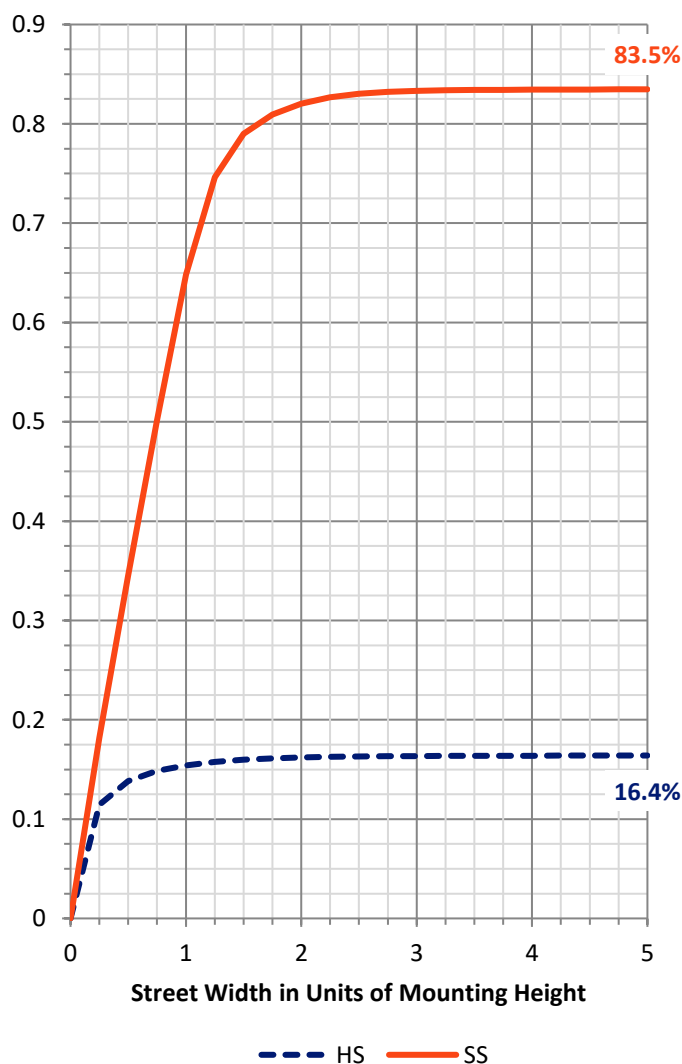
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2190.3	0.0	2190.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	11047.7	0.0	11047.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	13238.0	0.0	13238.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.0	3.1
10°-20°	935.3	7.1
20°-30°	1329.3	10.0
30°-40°	2051.4	15.5
40°-50°	3216.5	24.3
50°-60°	3736.4	28.2
60°-70°	1411.8	10.7
70°-80°	134.3	1.0
80°-90°	15.1	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°	13238.0	100.0
0°-180°	13238.0	100.0

**Coefficient of Utilization**



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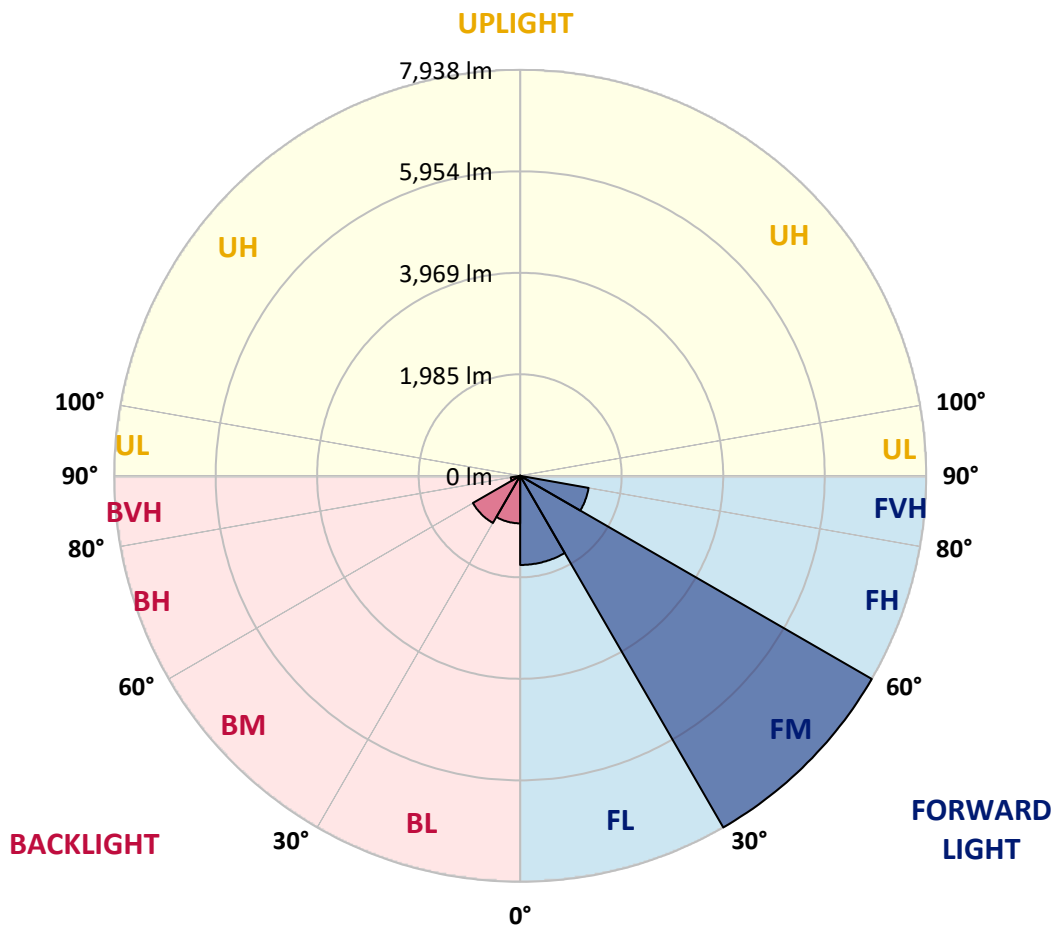
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1743.1	13.2			
FM (30°-60°)	7938.4	60.0			
FH (60°-80°)	1358.4	10.3			G1/1800
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	929.5	7.0	B2/1000		
BM (30°-60°)	1065.8	8.1	B2/2500		
BH (60°-80°)	187.7	1.4	B1/500		G1/500
BVH (80°-90°)	7.3	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°	53°	55°	65°	75°	85°
0°	4754.9	4754.9	4754.9	4754.9	4754.9	4754.9	4754.9	4754.9	4754.9	4754.9	4754.9
2.5°	4730.2	4688.3	4730.2	4735.1	4764.7	4791.9	4774.6	4814.1	4791.9	4767.2	4759.8
5°	4347.9	4404.7	4407.1	4495.9	4476.2	4639.0	4710.5	4690.7	4811.6	4804.2	4786.9
7.5°	4005.1	3982.9	4012.5	4116.1	4246.8	4434.3	4537.8	4535.4	4708.0	4831.3	4819.0
10°	3687.0	3684.5	3746.2	3827.6	3938.5	4135.8	4278.9	4350.4	4619.2	4806.7	4833.8
12.5°	3472.4	3462.6	3529.2	3595.7	3770.8	3923.8	4106.3	4140.8	4449.1	4720.3	4764.7
15°	3331.9	3354.1	3359.0	3487.2	3598.2	3800.4	3943.5	4015.0	4370.1	4651.3	4821.5
17.5°	3307.2	3336.8	3339.3	3445.3	3563.7	3733.9	3859.6	3955.8	4303.5	4685.8	4823.9
20°	3356.5	3339.3	3354.1	3420.6	3536.6	3699.3	3881.8	3913.9	4281.4	4703.1	4851.0
22.5°	3497.1	3492.2	3455.2	3509.4	3590.8	3761.0	3933.6	3982.9	4345.5	4791.9	4873.2
25°	3652.5	3679.6	3645.1	3637.7	3694.4	3862.1	4091.5	4155.6	4560.0	4952.2	4942.3
27.5°	3943.5	3916.4	3916.4	3881.8	3867.0	3948.4	4261.6	4367.7	4799.3	5159.3	5021.2
30°	4222.2	4251.8	4229.6	4241.9	4143.2	4135.8	4503.3	4634.0	5223.4	5475.0	5188.9
32.5°	4663.6	4624.2	4661.2	4629.1	4498.4	4365.2	4831.3	4967.0	5736.4	5837.5	5440.5
35°	5031.1	5013.8	5171.7	5166.7	4954.6	4823.9	5179.1	5381.3	6094.0	6271.6	5736.4
37.5°	5553.9	5521.9	5701.9	5788.2	5598.3	5403.5	5677.2	5911.5	6427.0	6619.3	6039.8
40°	6091.6	6172.9	6414.6	6557.7	6355.4	6096.5	6286.4	6357.9	6648.9	6846.2	6246.9
42.5°	6772.2	6890.6	7137.2	7260.5	7243.3	6962.1	6905.4	6902.9	6809.2	6782.1	6399.8
45°	7425.8	7381.4	7761.2	8030.0	8247.0	8165.6	7502.2	7428.2	7063.2	6878.3	6439.3
47.5°	7711.9	7697.1	7956.0	8434.5	9174.3	9275.4	8370.3	8084.3	7492.4	7282.7	6653.9
50°	7341.9	7418.4	7674.9	8205.1	9339.6	10111.5	9435.7	9051.0	7993.0	7776.0	7161.9
52.5°	6133.5	6185.3	6429.4	7102.7	8777.3	10604.7	10456.8	10234.8	8912.9	8552.8	8047.3
54°	5043.4	5181.5	5314.7	5990.4	7776.0	10331.0	11016.6	10846.4	9512.2	9199.0	8604.6
55°	4392.3	4473.7	4569.9	5243.2	7083.0	9867.3	10952.5	10967.3	9914.2	9401.2	8979.5
57.5°	3208.5	3265.3	3166.6	3465.0	4863.4	8012.7	10017.8	10417.3	10456.8	9704.6	9208.9
60°	2451.4	2476.1	2365.1	2412.0	3023.6	5499.7	7748.9	8229.8	9433.3	8481.3	7800.6
62.5°	1901.5	1906.4	1903.9	1985.3	2084.0	3235.7	4846.1	5272.8	6503.4	6022.5	5297.4
65°	1400.8	1378.6	1418.1	1664.7	1778.1	2034.6	2552.5	2863.3	3534.1	2984.1	2133.3
67.5°	907.6	915.0	954.4	1238.0	1524.1	1561.1	1571.0	1546.3	1548.8	853.3	535.2
70°	545.0	557.4	545.0	700.4	1090.1	1119.7	1023.5	998.8	779.3	202.2	199.8
72.5°	323.1	305.8	273.8	300.9	453.8	542.6	488.3	485.8	305.8	118.4	118.4
75°	135.6	123.3	101.1	91.3	120.8	115.9	115.9	103.6	81.4	78.9	74.0
77.5°	27.1	27.1	19.7	22.2	29.6	34.5	41.9	41.9	49.3	49.3	46.9
80°	0.0	2.5	7.4	14.8	22.2	32.1	37.0	37.0	41.9	41.9	34.5
82.5°	0.0	2.5	7.4	14.8	19.7	29.6	37.0	37.0	41.9	44.4	37.0
85°	0.0	2.5	7.4	12.3	19.7	24.7	24.7	22.2	17.3	14.8	9.9
87.5°	0.0	0.0	2.5	4.9	2.5	4.9	4.9	4.9	4.9	4.9	4.9
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°	4754.9	4754.9	4754.9	4754.9	4754.9	4754.9	4754.9	4754.9	4754.9	4754.9	4754.9
2.5°	4777.1	4774.6	4715.4	4619.2	4597.0	4515.6	4505.8	4456.5	4483.6	4392.3	4382.5
5°	4737.6	4708.0	4636.5	4574.8	4394.8	4266.6	4165.4	4042.1	3970.6	3982.9	3936.1
7.5°	4794.3	4717.9	4592.1	4377.5	4158.0	3933.6	3812.8	3561.2	3470.0	3334.3	3314.6
10°	4735.1	4678.4	4483.6	4128.4	3825.1	3502.0	3218.4	2939.7	2727.6	2636.4	2616.7
12.5°	4730.2	4631.6	4306.0	3911.4	3472.4	3008.8	2596.9	2249.2	2039.6	1921.2	1894.1
15°	4653.8	4535.4	4106.3	3576.0	2969.3	2392.2	1943.4	1608.0	1447.7	1378.6	1398.3
17.5°	4661.2	4483.6	3906.5	3220.9	2473.6	1755.9	1326.8	1154.2	1112.3	1129.5	1129.5
20°	4653.8	4367.7	3664.8	2811.5	1894.1	1218.3	974.2	912.5	939.6	993.9	981.6
22.5°	4614.3	4313.4	3442.8	2379.9	1393.4	902.6	781.8	784.3	826.2	892.8	907.6
25°	4643.9	4192.6	3161.7	1943.4	1016.1	720.1	678.2	695.5	739.9	789.2	799.1
27.5°	4621.7	4106.3	2868.2	1509.3	742.3	619.0	616.6	636.3	656.0	693.0	693.0
30°	4646.4	4027.3	2579.7	1122.1	611.6	567.2	557.4	572.2	591.9	599.3	596.8
32.5°	4737.6	3968.1	2246.7	838.5	540.1	517.9	517.9	517.9	515.4	525.3	527.8
35°	4937.4	3978.0	1953.2	648.6	493.2	476.0	468.6	458.7	453.8	458.7	461.2
37.5°	5154.4	3973.1	1649.9	552.4	458.7	443.9	426.7	411.9	409.4	414.3	406.9
40°	5250.6	4019.9	1368.8	495.7	426.7	409.4	382.3	369.9	372.4	377.3	372.4
42.5°	5381.3	4034.7	1186.3	451.3	397.1	369.9	352.7	337.9	335.4	342.8	340.3
45°	5378.8	3950.9	993.9	426.7	369.9	340.3	318.1	305.8	305.8	310.7	313.2
47.5°	5536.7	3938.5	853.3	404.5	350.2	320.6	293.5	283.6	281.1	281.1	276.2
50°	5904.1	4111.2	744.8	379.8	325.5	298.4	276.2	263.9	254.0	249.1	246.6
52.5°	6621.8	4648.8	660.9	350.2	298.4	276.2	256.5	246.6	234.3	222.0	219.5
54°	7317.3	5203.7	656.0	325.5	276.2	261.4	244.2	239.2	224.4	207.2	202.2
55°	7630.5	5526.8	673.3	305.8	261.4	251.6	236.8	231.8	217.0	197.3	194.8
57.5°	7889.4	5652.6	663.4	254.0	236.8	234.3	222.0	214.6	197.3	170.2	165.2
60°	6350.5	4274.0	476.0	224.4	217.0	212.1	202.2	197.3	175.1	145.5	143.0
62.5°	4012.5	2458.8	303.3	197.3	189.9	182.5	170.2	165.2	145.5	115.9	108.5
65°	1709.1	1018.5	204.7	175.1	162.8	150.4	140.6	133.2	115.9	86.3	83.9
67.5°	443.9	362.5	170.2	152.9	135.6	118.4	111.0	98.6	78.9	59.2	56.7
70°	199.8	182.5	143.0	128.2	108.5	91.3	81.4	69.1	51.8	39.5	37.0
72.5°	118.4	115.9	108.5	96.2	81.4	69.1	59.2	46.9	34.5	22.2	22.2
75°	74.0	71.5	74.0	66.6	56.7	51.8	44.4	32.1	19.7	9.9	9.9
77.5°	44.4	44.4	44.4	41.9	39.5	39.5	32.1	19.7	9.9	2.5	2.5
80°	34.5	34.5	37.0	34.5	34.5	34.5	27.1	14.8	4.9	0.0	0.0
82.5°	34.5	37.0	41.9	39.5	34.5	29.6	24.7	14.8	4.9	0.0	0.0
85°	9.9	7.4	12.3	17.3	24.7	22.2	17.3	12.3	4.9	0.0	0.0
87.5°	4.9	4.9	4.9	4.9	2.5	2.5	2.5	2.5	2.5	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)