

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: P529481

Luminaire Tested: **GALN-SA4C-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529481  
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-SA4C-827-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1050mA 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: 11956 lumens  
Efficiency: N/A  
Efficacy: 56.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

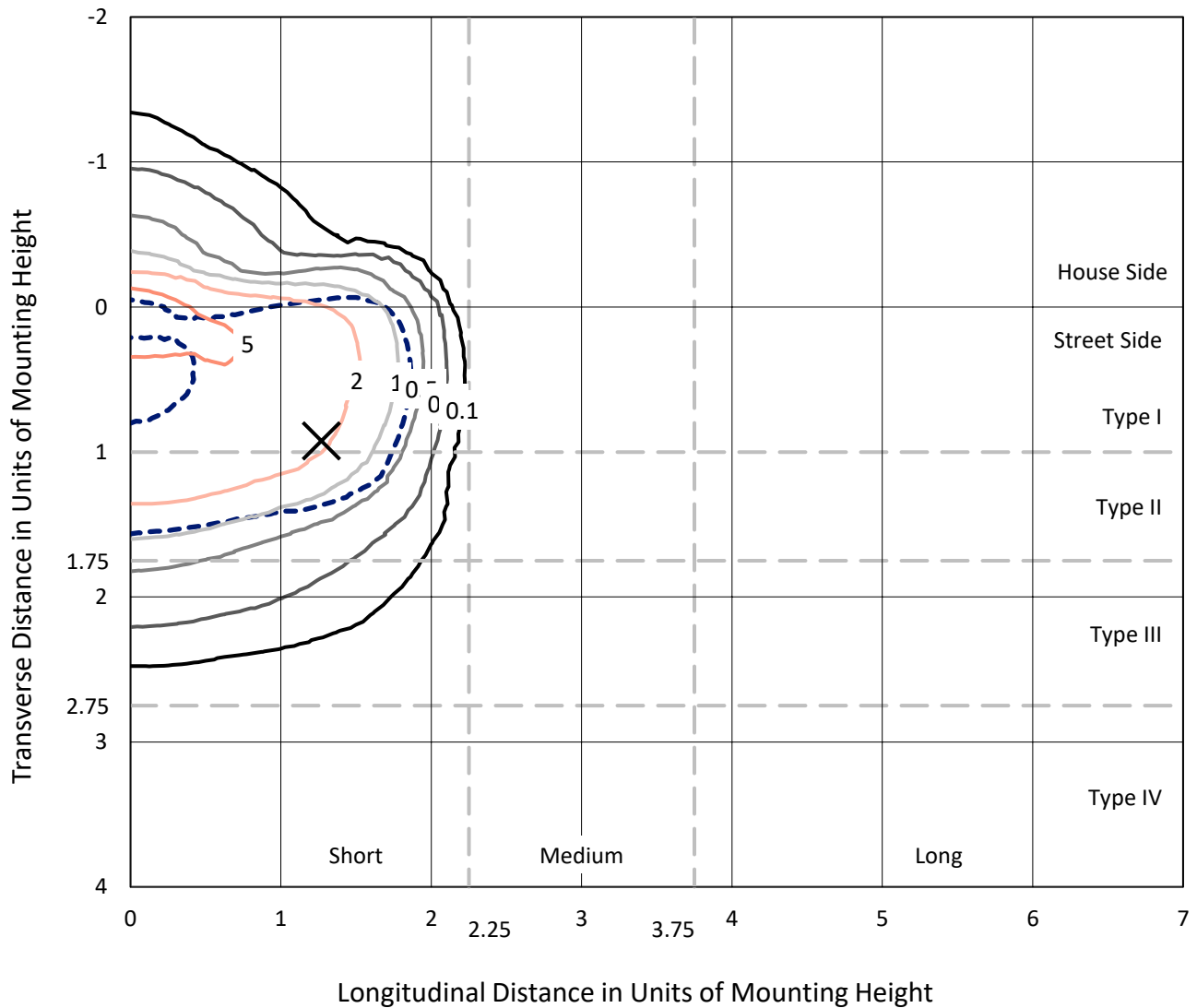
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

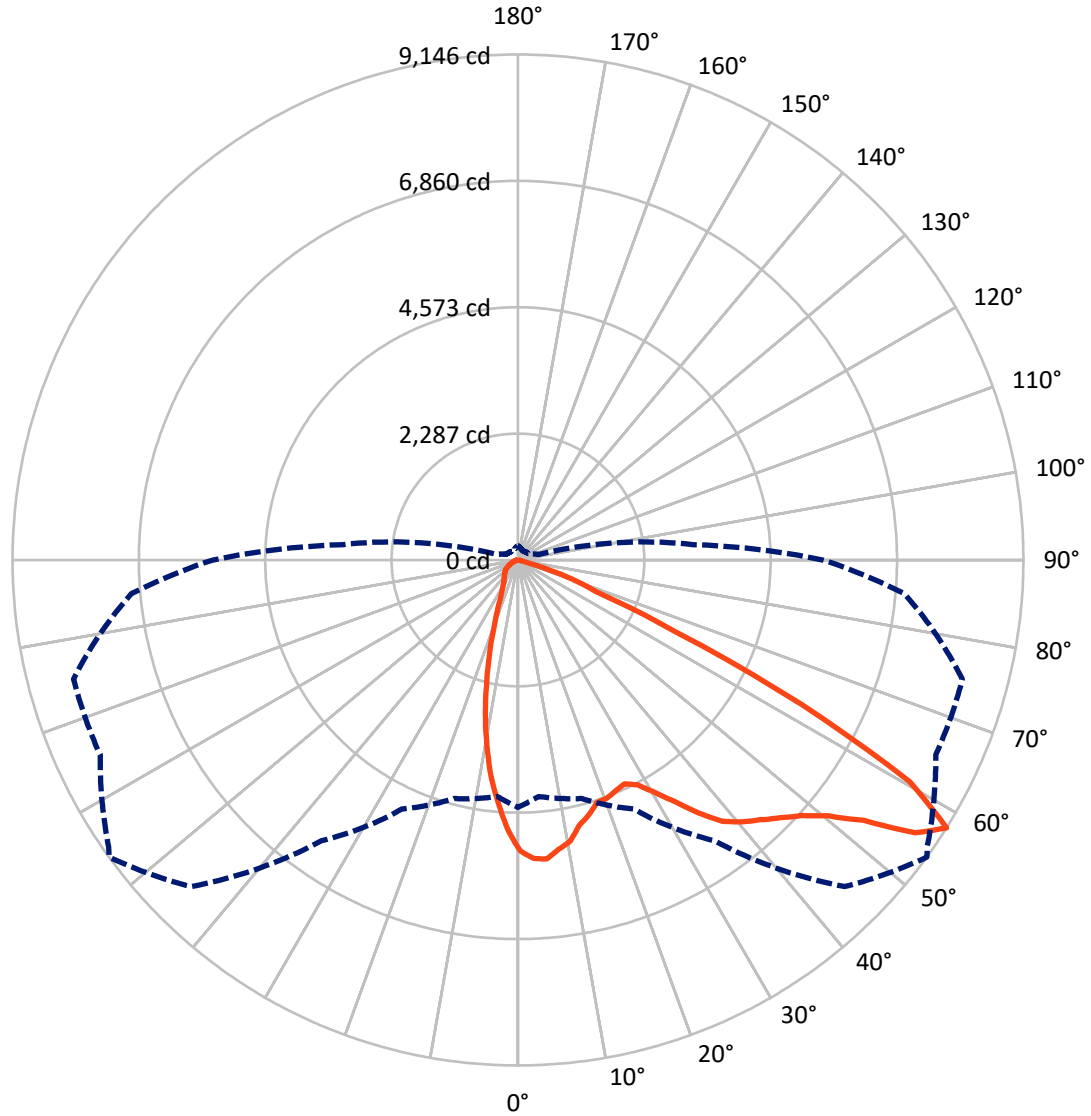
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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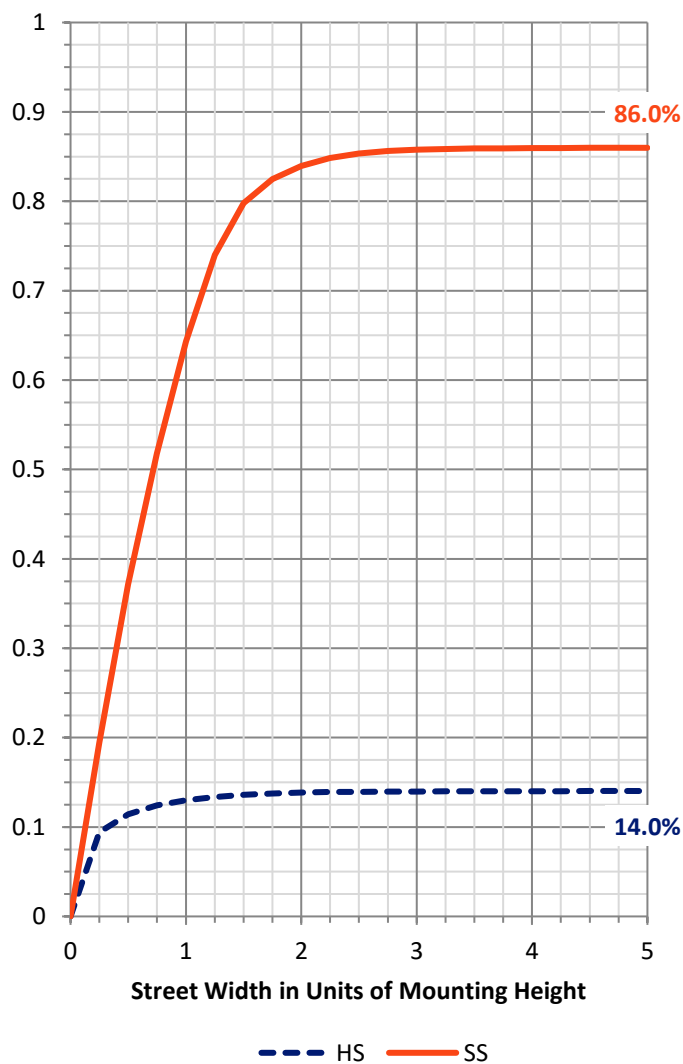
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1689.6	0.0	1689.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	10266.4	0.0	10266.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	11956.0	0.0	11956.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.7	3.7
10°-20°	941.0	7.9
20°-30°	1247.0	10.4
30°-40°	1812.2	15.2
40°-50°	2687.2	22.5
50°-60°	3360.2	28.1
60°-70°	1325.5	11.1
70°-80°	132.0	1.1
80°-90°	10.3	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°	11956.0	100.0
0°-180°	11956.0	100.0

**Coefficient of Utilization**

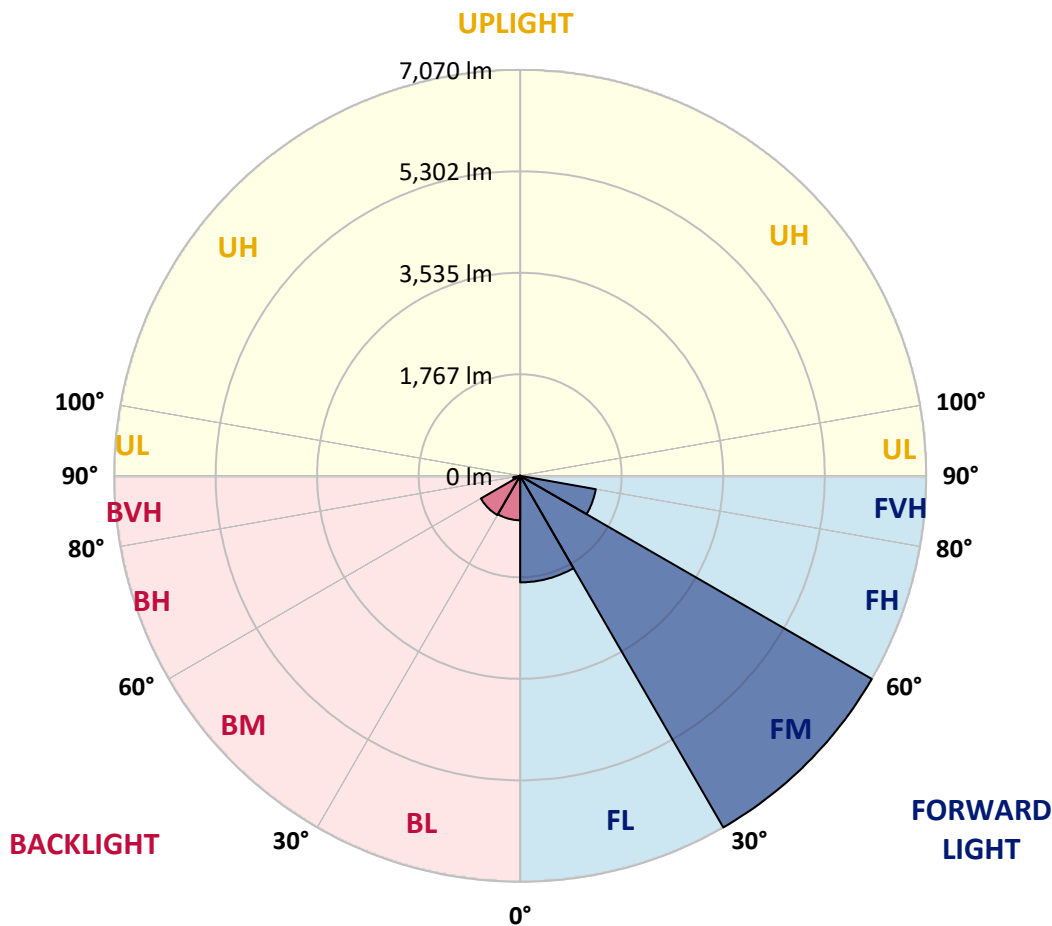


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1855.9	15.5			
FM (30°-60°)	7069.5	59.1			
FH (60°-80°)	1336.3	11.2			G1/1800
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	772.7	6.5	B2/1000		
BM (30°-60°)	790.1	6.6	B1/1000		
BH (60°-80°)	121.2	1.0	B1/500		G1/500
BVH (80°-90°)	5.6	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°	5266.8	5266.8	5266.8	5266.8	5266.8	5266.8	5266.8	5266.8	5266.8	5266.8	5266.8
2.5°	5573.6	5515.8	5520.2	5500.2	5473.5	5493.5	5406.8	5426.8	5424.6	5306.8	5229.0
5°	5433.5	5495.8	5431.3	5484.7	5433.5	5489.1	5435.7	5395.7	5331.3	5244.5	5100.0
7.5°	5195.6	5135.6	5153.4	5220.1	5231.2	5355.7	5289.0	5340.1	5313.5	5142.3	4944.4
10°	4717.6	4704.3	4793.2	4882.2	4991.1	5124.5	5175.6	5146.7	5126.7	5062.2	4797.7
12.5°	4350.8	4388.6	4386.4	4533.1	4717.6	4793.2	4926.6	4922.2	5033.3	4913.3	4659.8
15°	4001.8	4021.8	4115.2	4206.3	4410.8	4626.5	4791.0	4813.2	4946.6	4862.2	4553.1
17.5°	3788.3	3759.4	3832.8	3941.7	4150.7	4433.1	4615.4	4668.7	4851.0	4833.3	4430.9
20°	3577.1	3577.1	3637.2	3766.1	3957.3	4275.2	4599.8	4584.3	4851.0	4799.9	4299.7
22.5°	3506.0	3541.6	3557.1	3655.0	3881.7	4155.2	4533.1	4562.0	4888.8	4784.3	4241.9
25°	3603.8	3557.1	3561.6	3639.4	3852.8	4097.4	4484.2	4548.7	4957.8	4862.2	4195.2
27.5°	3619.4	3666.1	3679.4	3732.8	3875.1	4115.2	4606.5	4737.7	5128.9	5044.5	4208.5
30°	3755.0	3801.7	3799.5	3890.6	3988.4	4259.7	4879.9	4906.6	5482.4	5273.4	4290.8
32.5°	3919.5	3968.4	3984.0	4090.7	4168.5	4524.2	5213.4	5282.3	5822.6	5633.6	4506.4
35°	4124.1	4106.3	4177.4	4284.1	4450.9	4911.1	5620.3	5735.9	6189.4	6100.5	4728.8
37.5°	4379.7	4357.5	4426.4	4599.8	4826.6	5369.0	5996.0	6071.6	6456.2	6534.0	5140.1
40°	4559.8	4568.7	4777.7	5011.1	5251.2	5804.8	6233.9	6307.2	6642.9	6938.6	5451.3
42.5°	4859.9	4915.5	5166.7	5451.3	5702.5	6131.6	6427.3	6498.4	6729.6	7263.2	5871.5
45°	5295.7	5271.2	5549.1	5867.0	6144.9	6471.8	6656.3	6631.8	6780.8	7585.6	6136.1
47.5°	5855.9	5860.4	6044.9	6316.1	6605.1	6767.4	6912.0	6825.2	6887.5	7925.7	6489.5
50°	6238.3	6271.7	6420.6	6698.5	6843.0	7092.0	7276.6	7223.2	7203.2	8130.3	6711.9
52.5°	6336.1	6436.2	6516.2	6863.0	7201.0	7594.5	7830.1	7943.5	7587.8	8199.2	6994.2
55°	5598.0	5687.0	5969.3	6445.1	7336.6	8390.4	8715.0	8717.2	8090.3	8506.0	7192.1
57.5°	4475.3	4295.2	4468.6	4973.3	6202.7	8357.0	9146.3	9041.8	8341.5	8325.9	7020.9
60°	3094.7	3050.2	3061.4	3261.4	4293.0	6647.4	8150.3	8285.9	7681.2	7216.5	5558.0
62.5°	2452.2	2414.4	2365.5	2343.3	2665.6	4141.8	5749.2	5940.4	5371.3	4679.9	3294.8
65°	1920.9	1898.6	1905.3	1994.2	1992.0	2349.9	3143.6	3065.8	2454.4	1814.1	1036.0
67.5°	1296.1	1329.5	1356.2	1625.2	1763.0	1636.3	1518.5	1474.0	798.1	335.7	229.0
70°	729.2	733.7	762.6	1016.0	1338.4	1269.5	1047.1	1047.1	398.0	122.3	131.2
72.5°	398.0	384.6	357.9	438.0	595.8	604.7	466.9	406.8	117.8	80.0	73.4
75°	193.4	191.2	164.5	135.6	128.9	106.7	82.3	75.6	53.4	51.1	44.5
77.5°	40.0	37.8	20.0	20.0	22.2	24.5	31.1	31.1	37.8	37.8	31.1
80°	0.0	0.0	2.2	8.9	15.6	22.2	26.7	26.7	31.1	31.1	24.5
82.5°	0.0	0.0	2.2	6.7	13.3	20.0	24.5	26.7	31.1	33.3	26.7
85°	0.0	0.0	0.0	4.4	11.1	15.6	13.3	13.3	11.1	8.9	4.4
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°	5266.8	5266.8	5266.8	5266.8	5266.8	5266.8	5266.8	5266.8	5266.8	5266.8	5266.8
2.5°	5189.0	5184.5	5082.3	5024.4	4920.0	4828.8	4755.4	4702.1	4702.1	4668.7	4637.6
5°	5042.2	5004.4	4786.6	4646.5	4448.6	4301.9	4201.9	4124.1	4001.8	4035.1	3904.0
7.5°	4859.9	4764.3	4475.3	4261.9	3988.4	3779.5	3566.0	3377.1	3194.7	3112.5	3157.0
10°	4664.3	4497.5	4108.5	3770.6	3430.4	3048.0	2799.0	2496.7	2309.9	2298.8	2249.9
12.5°	4457.5	4268.6	3795.0	3328.1	2881.3	2421.1	2040.9	1758.6	1631.8	1491.8	1518.5
15°	4301.9	4021.8	3446.0	2883.5	2289.9	1825.3	1442.9	1225.0	1104.9	1071.6	1060.5
17.5°	4132.9	3832.8	3090.3	2410.0	1796.4	1313.9	1038.2	933.7	887.1	887.1	880.4
20°	3957.3	3619.4	2736.8	1969.8	1347.3	980.4	831.5	798.1	795.9	793.7	793.7
22.5°	3841.7	3374.8	2416.6	1565.1	1016.0	784.8	722.5	709.2	718.1	744.8	744.8
25°	3719.4	3139.2	2063.1	1207.2	787.0	673.6	638.1	647.0	669.2	693.6	684.7
27.5°	3594.9	2985.8	1729.7	947.1	644.7	589.2	575.8	595.8	620.3	642.5	635.8
30°	3566.0	2821.3	1414.0	718.1	553.6	513.6	522.5	540.2	564.7	573.6	582.5
32.5°	3610.5	2692.3	1158.3	589.2	482.4	471.3	471.3	480.2	495.8	515.8	509.1
35°	3737.2	2618.9	916.0	511.3	442.4	431.3	429.1	438.0	446.9	453.5	446.9
37.5°	3930.6	2561.1	749.2	453.5	415.7	398.0	393.5	391.3	400.2	402.4	406.8
40°	4177.4	2592.3	635.8	418.0	389.1	369.1	355.7	355.7	355.7	362.4	364.6
42.5°	4444.2	2634.5	549.1	398.0	364.6	340.2	326.8	322.4	326.8	335.7	333.5
45°	4724.3	2716.8	493.6	366.8	342.4	311.2	293.5	289.0	300.1	317.9	315.7
47.5°	4986.7	2834.6	451.3	346.8	320.1	291.2	269.0	264.6	284.6	309.0	311.2
50°	5249.0	3039.1	435.7	331.3	304.6	271.2	251.2	246.8	269.0	300.1	306.8
52.5°	5551.3	3259.2	424.6	311.2	286.8	255.7	233.4	229.0	253.4	293.5	295.7
55°	5749.2	3446.0	415.7	275.7	253.4	231.2	213.4	211.2	237.9	273.5	282.3
57.5°	5518.0	3185.9	384.6	240.1	215.7	204.5	189.0	189.0	211.2	244.6	251.2
60°	4184.1	2096.5	273.5	193.4	182.3	175.6	169.0	169.0	186.7	211.2	213.4
62.5°	2450.0	1129.4	175.6	155.6	155.6	149.0	137.8	137.8	155.6	169.0	171.2
65°	727.0	362.4	142.3	133.4	131.2	120.1	108.9	106.7	120.1	126.7	124.5
67.5°	209.0	166.7	117.8	111.2	108.9	91.2	84.5	82.3	84.5	80.0	77.8
70°	124.5	113.4	91.2	93.4	82.3	66.7	60.0	57.8	53.4	46.7	42.2
72.5°	68.9	68.9	66.7	71.1	57.8	44.5	37.8	31.1	24.5	20.0	17.8
75°	42.2	44.5	46.7	48.9	37.8	28.9	24.5	15.6	8.9	4.4	4.4
77.5°	28.9	31.1	33.3	35.6	31.1	26.7	20.0	11.1	2.2	0.0	0.0
80°	22.2	24.5	28.9	31.1	33.3	35.6	26.7	11.1	2.2	0.0	0.0
82.5°	24.5	26.7	33.3	31.1	31.1	31.1	24.5	11.1	2.2	0.0	0.0
85°	4.4	6.7	11.1	11.1	15.6	20.0	15.6	4.4	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)