

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: P455442

Luminaire Tested: **GALN-SA6C-827-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6C-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25109 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

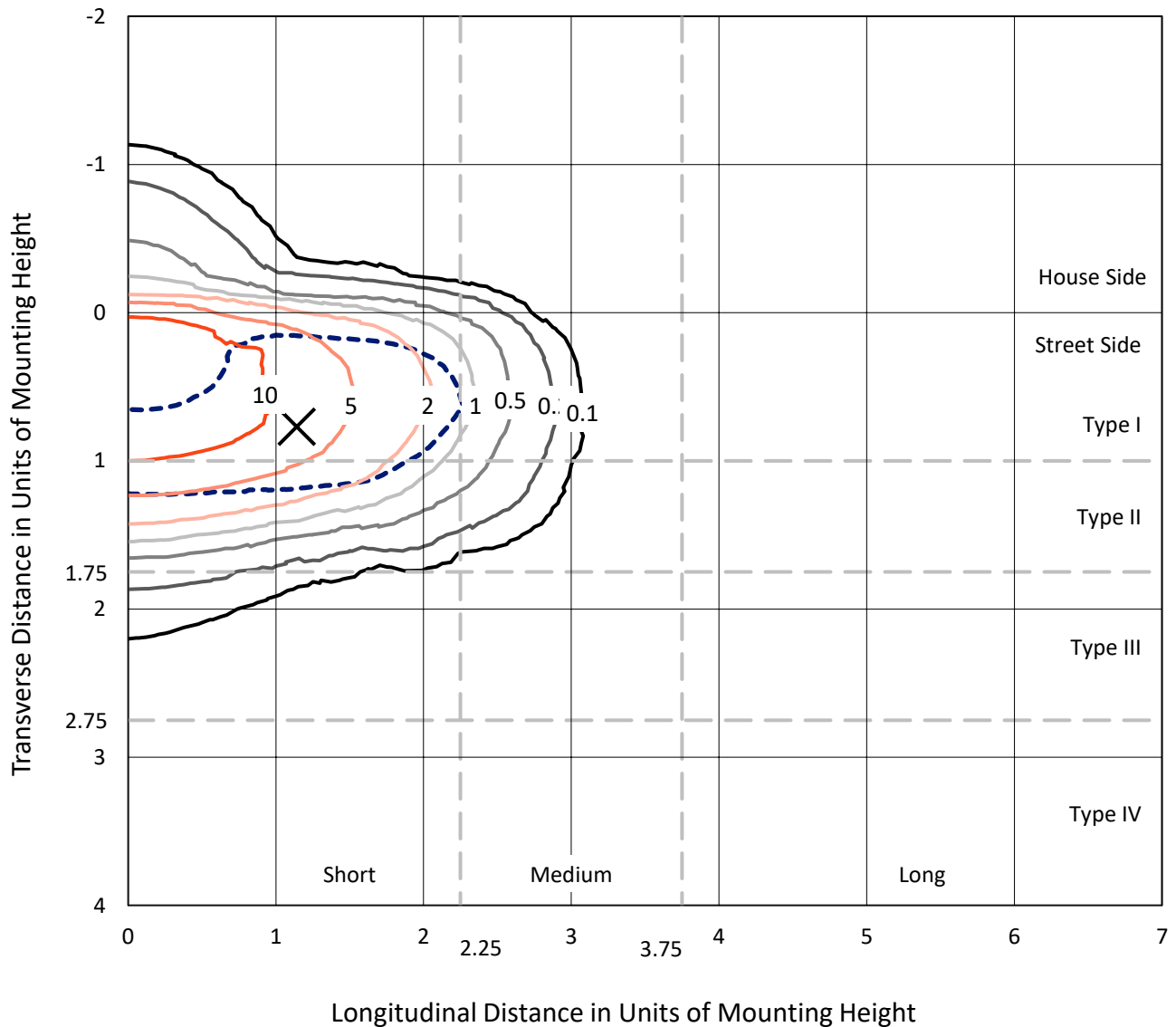
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

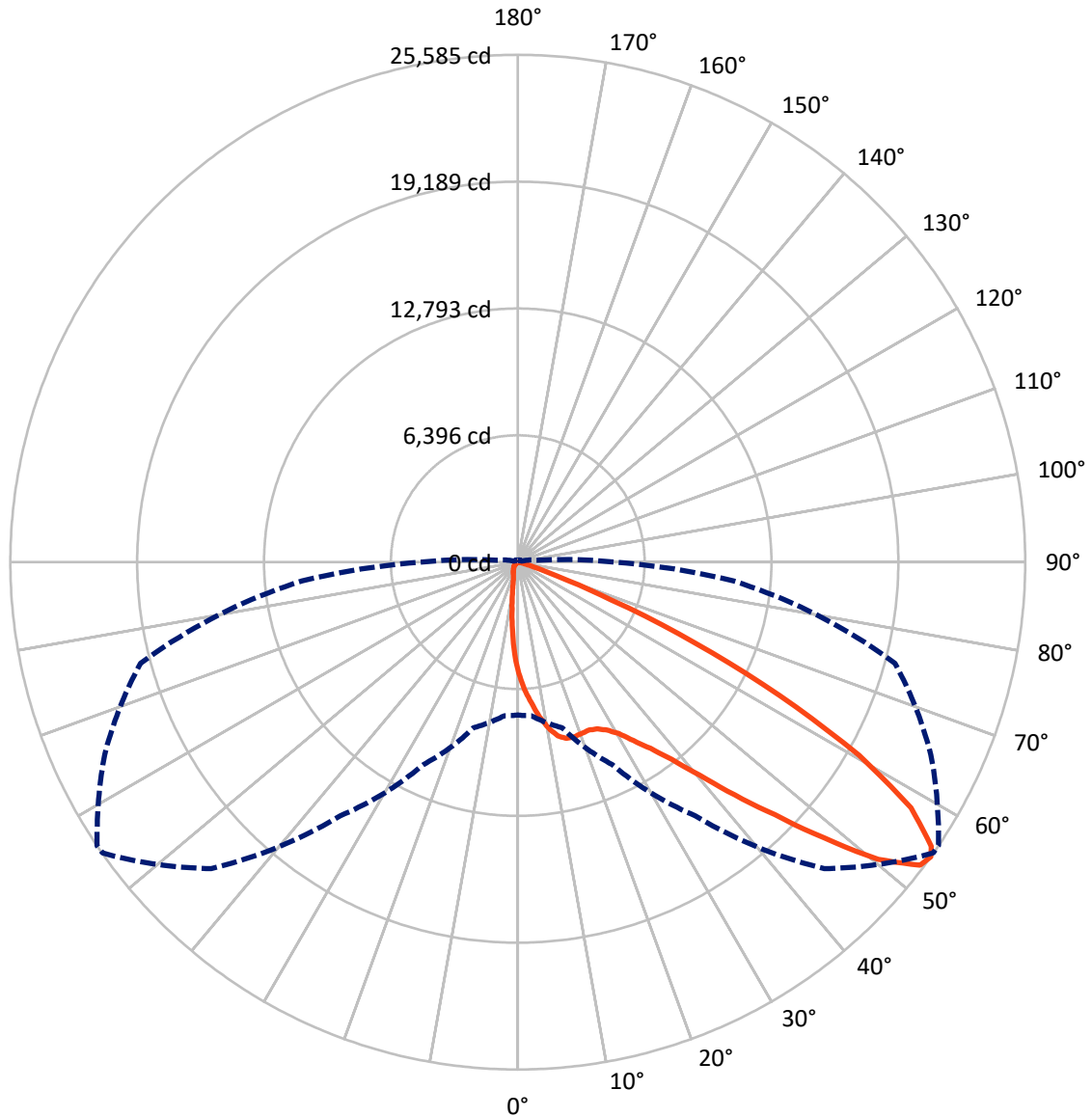
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical



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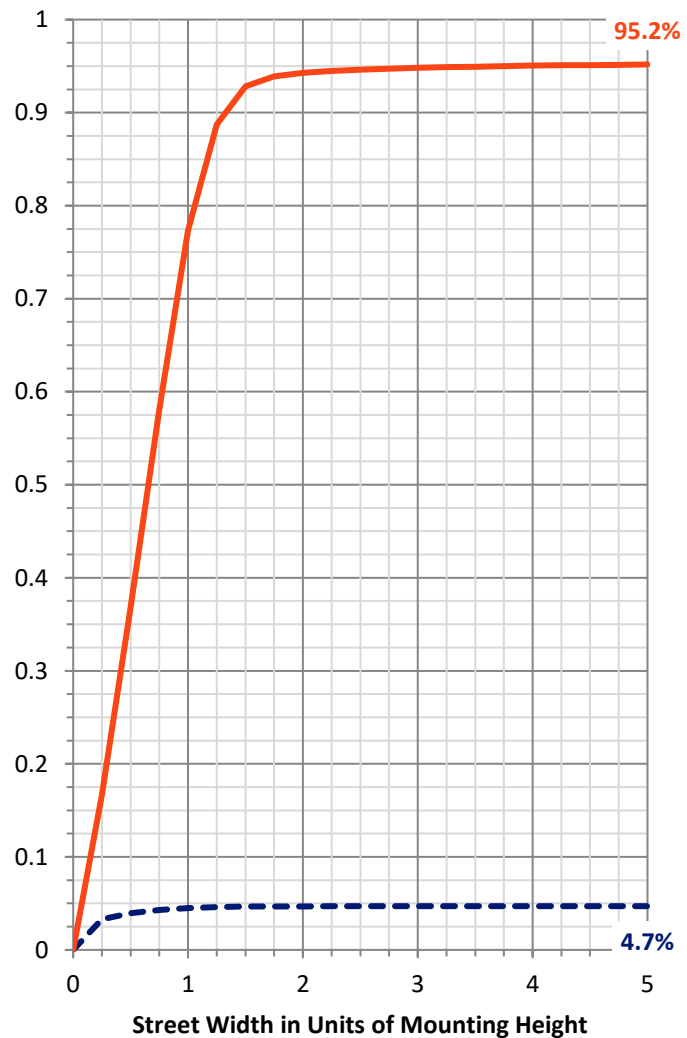
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1187.4	0.0	1187.4
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	23921.7	0.0	23921.7
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	25109.0	0.0	25109.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.9	2.0
10°-20°	1332.6	5.3
20°-30°	2308.0	9.2
30°-40°	3983.9	15.9
40°-50°	6780.8	27.0
50°-60°	6710.4	26.7
60°-70°	3062.8	12.2
70°-80°	393.3	1.6
80°-90°	44.3	0.2
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°	25109.0	100.0
0°-180°	25109.0	100.0



--- HS    — SS

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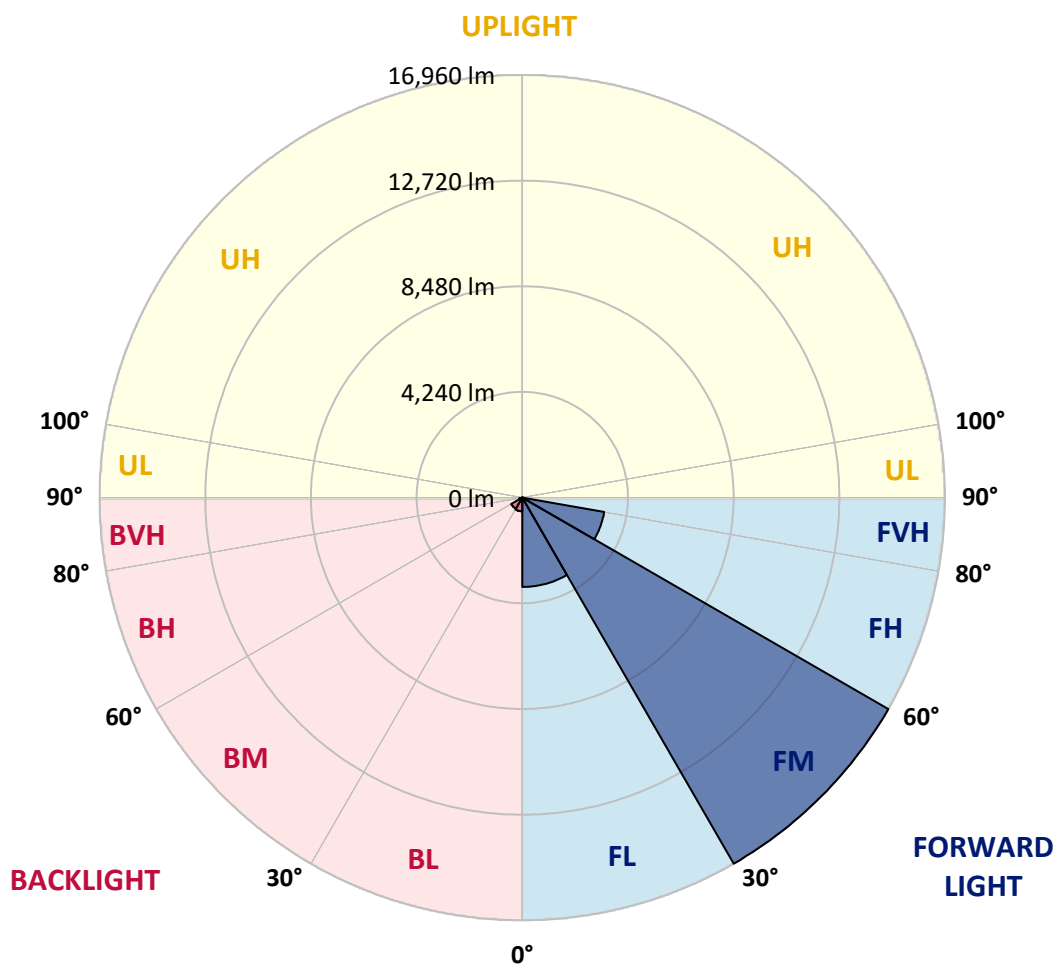
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3584.4	14.3			
FM (30°-60°)	16960.5	67.5			
FH (60°-80°)	3337.2	13.3			G2/5000
FVH (80°-90°)	39.6	0.2			G1/100
BL (0°-30°)	549.1	2.2	B2/1000		
BM (30°-60°)	514.6	2.0	B1/1000		
BH (60°-80°)	118.9	0.5	B1/500		G1/500
BVH (80°-90°)	4.8	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5578.5	5578.5	5578.5	5578.5	5578.5	5578.5	5578.5	5578.5	5578.5	5578.5	5578.5
2.5°	7089.6	7040.5	6972.7	6920.2	6796.5	6618.6	6430.6	6430.6	6249.3	5996.9	5739.4
5°	8177.2	8145.0	8078.9	7943.4	7804.5	7555.5	7177.7	7111.6	6788.0	6330.7	5849.5
7.5°	8619.3	8634.6	8637.9	8602.4	8536.3	8290.7	7916.3	7870.5	7353.9	6740.6	5993.5
10°	8195.8	8270.3	8343.2	8490.6	8698.9	8758.2	8546.5	8499.0	7990.8	7155.7	6149.4
12.5°	7565.6	7606.3	7646.9	7879.0	8297.4	8776.9	8998.8	8997.1	8566.8	7569.0	6347.6
15°	7272.5	7308.1	7311.5	7414.8	7777.4	8475.3	9191.9	9217.3	9129.2	8078.9	6561.0
17.5°	7333.5	7362.3	7338.6	7364.0	7553.8	8143.3	9169.9	9254.6	9584.9	8568.5	6754.2
20°	7731.6	7787.5	7696.1	7624.9	7682.5	8055.2	9095.3	9213.9	9906.8	9046.2	6930.3
22.5°	8446.5	8477.0	8361.8	8167.0	8065.4	8239.8	9075.0	9191.9	10181.2	9437.5	7032.0
25°	9241.0	9230.9	9103.8	8885.3	8671.8	8612.5	9208.8	9313.9	10408.2	9789.9	7062.5
27.5°	10035.5	10066.0	9852.6	9581.5	9325.7	9171.6	9508.7	9586.6	10664.0	10191.4	7099.8
30°	10958.8	10909.7	10699.6	10389.6	10096.5	9881.4	9991.5	10013.5	11016.4	10723.3	7198.0
32.5°	12159.9	12024.3	11788.9	11246.8	11036.7	10672.5	10699.6	10726.7	11445.0	11250.2	7316.6
35°	13789.5	13782.8	13322.0	12591.9	12080.3	11627.9	11509.4	11531.4	12093.8	12032.8	7579.2
37.5°	15751.3	15778.4	15253.2	14518.0	13576.1	12857.8	12613.9	12617.3	13079.7	13113.6	7979.0
40°	17348.7	17419.9	17106.5	16610.1	15680.1	14556.9	14147.0	14109.7	14465.5	14423.1	8549.9
42.5°	18036.5	18102.6	18219.5	18392.3	17880.7	16954.0	15986.7	16037.5	16146.0	15849.5	9190.2
45°	17699.4	17804.4	18263.5	19330.8	19811.9	19500.2	18346.5	18168.7	17709.6	17399.6	9833.9
47.5°	16295.0	16550.8	17318.2	19095.3	20779.2	21832.9	21009.6	20774.1	19274.9	18531.2	10243.9
50°	13986.1	14001.3	15070.2	17342.0	20277.7	23305.0	23728.5	23552.3	20733.4	19166.5	10450.6
52.5°	10138.9	10472.6	11451.8	14082.6	18106.0	23081.4	25461.5	25388.7	22237.8	19491.7	10748.7
54°	7707.9	7772.3	8643.0	11253.6	15610.6	21853.2	25568.3	25585.2	22984.8	19688.2	10924.9
55°	6318.8	6164.6	7079.4	9586.6	13908.1	20767.3	25219.3	25300.6	23320.3	19789.9	11055.4
57.5°	2995.1	2996.8	3696.4	5056.7	8710.8	16125.6	23086.5	23374.5	23357.5	19964.3	11456.8
60°	1516.2	1526.3	1680.5	2334.4	4302.9	10719.9	19088.5	19774.6	21560.1	19989.8	11589.0
62.5°	1060.5	1048.6	1023.2	1123.2	1810.9	5448.1	14211.4	14807.7	18317.7	19022.5	11168.9
65°	908.0	882.6	811.4	796.2	914.8	2170.1	8851.4	9823.8	13986.1	16471.2	9972.9
67.5°	775.9	765.7	701.3	662.4	647.1	945.3	4567.2	5078.8	9559.5	11839.7	7553.8
70°	659.0	653.9	614.9	565.8	523.5	565.8	1694.0	2098.9	5327.8	6374.7	3564.3
72.5°	535.3	540.4	547.2	484.5	440.5	401.5	723.4	841.9	2229.4	2278.5	1246.8
75°	469.3	464.2	464.2	421.8	367.6	298.2	398.1	428.6	682.7	633.6	289.7
77.5°	330.3	318.5	372.7	347.3	306.6	211.8	227.0	240.6	282.9	242.2	135.5
80°	228.7	228.7	238.9	311.7	276.1	154.2	138.9	149.1	167.7	144.0	77.9
82.5°	128.7	132.1	155.9	166.0	160.9	103.3	91.5	93.2	111.8	98.3	49.1
85°	15.2	25.4	89.8	88.1	66.1	45.7	50.8	52.5	69.5	61.0	28.8
87.5°	1.7	3.4	18.6	23.7	16.9	18.6	18.6	18.6	23.7	27.1	20.3
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°	5578.5	5578.5	5578.5	5578.5	5578.5	5578.5	5578.5	5578.5	5578.5	5578.5	5578.5
2.5°	5600.5	5471.8	5165.2	4809.4	4582.4	4213.1	3901.4	3676.1	3620.2	3511.8	3543.9
5°	5593.7	5326.1	4701.0	4040.3	3335.6	2810.4	2419.1	2110.8	1975.3	1885.5	1822.8
7.5°	5597.1	5178.7	4175.8	3123.8	2281.9	1766.9	1404.4	1216.3	1091.0	1038.5	1045.2
10°	5607.3	5012.7	3566.0	2314.1	1539.9	1141.8	919.9	830.1	787.7	781.0	779.3
12.5°	5631.0	4831.4	2983.2	1717.8	1077.4	830.1	745.4	714.9	701.3	701.3	696.3
15°	5656.4	4631.5	2498.7	1277.3	830.1	713.2	674.2	659.0	650.5	650.5	648.8
17.5°	5656.4	4401.1	2046.4	991.0	714.9	655.6	625.1	604.8	598.0	598.0	596.3
20°	5620.8	4133.5	1644.9	797.9	648.8	601.4	570.9	548.9	540.4	537.0	535.3
22.5°	5497.2	3776.0	1309.5	686.1	594.6	554.0	515.0	489.6	482.8	479.4	481.1
25°	5277.0	3372.8	1036.8	603.1	545.5	496.4	462.5	443.8	437.1	437.1	438.8
27.5°	5050.0	2951.0	821.6	540.4	486.2	442.1	415.0	403.2	401.5	406.6	408.3
30°	4839.9	2527.5	665.8	489.6	433.7	396.4	377.8	374.4	374.4	376.1	377.8
32.5°	4606.1	2156.5	557.3	445.5	391.3	359.1	349.0	349.0	352.4	352.4	355.7
35°	4458.7	1838.0	489.6	403.2	359.1	332.0	325.3	327.0	332.0	338.8	342.2
37.5°	4379.1	1583.9	445.5	369.3	328.6	310.0	303.2	306.6	318.5	330.3	332.0
40°	4385.9	1392.5	410.0	340.5	304.9	284.6	279.5	289.7	301.5	313.4	315.1
42.5°	4460.4	1250.2	376.1	306.6	284.6	255.8	254.1	264.3	269.4	281.2	282.9
45°	4548.5	1146.9	340.5	271.0	247.3	221.9	223.6	232.1	238.9	257.5	260.9
47.5°	4575.6	1075.7	299.8	230.4	203.3	194.8	196.5	201.6	215.1	232.1	233.8
50°	4606.1	1031.7	260.9	194.8	172.8	171.1	172.8	176.2	184.7	191.4	189.7
52.5°	4736.6	1030.0	228.7	169.4	147.4	150.8	152.5	150.8	144.0	133.8	130.4
54°	4858.5	1035.1	213.4	157.5	135.5	140.6	138.9	130.4	113.5	103.3	98.3
55°	4956.8	1040.1	205.0	149.1	128.7	130.4	132.1	115.2	93.2	83.0	79.6
57.5°	5149.9	1028.3	184.7	130.4	113.5	106.7	105.0	76.2	50.8	44.0	40.7
60°	5053.3	928.3	167.7	111.8	96.6	86.4	71.1	42.4	25.4	18.6	18.6
62.5°	4673.9	787.7	149.1	91.5	79.6	66.1	37.3	23.7	11.9	6.8	5.1
65°	4180.9	662.4	133.8	72.8	62.7	42.4	20.3	15.2	5.1	0.0	0.0
67.5°	3108.6	491.3	113.5	57.6	47.4	27.1	13.6	8.5	1.7	0.0	0.0
70°	1439.9	299.8	96.6	44.0	33.9	20.3	10.2	5.1	0.0	0.0	0.0
72.5°	413.3	188.0	79.6	32.2	23.7	16.9	8.5	3.4	1.7	0.0	0.0
75°	144.0	150.8	59.3	23.7	18.6	11.9	6.8	3.4	1.7	0.0	0.0
77.5°	86.4	122.0	37.3	20.3	15.2	10.2	6.8	3.4	1.7	1.7	0.0
80°	49.1	81.3	23.7	16.9	13.6	8.5	5.1	3.4	1.7	1.7	0.0
82.5°	27.1	39.0	18.6	15.2	11.9	8.5	5.1	3.4	1.7	1.7	1.7
85°	22.0	20.3	15.2	13.6	10.2	6.8	5.1	1.7	0.0	0.0	0.0
87.5°	16.9	13.6	13.6	13.6	10.2	6.8	5.1	1.7	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)