

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: P533537

Luminaire Tested: **GALN-SA9A-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533537  
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-SA9A-727-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 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: 20276 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

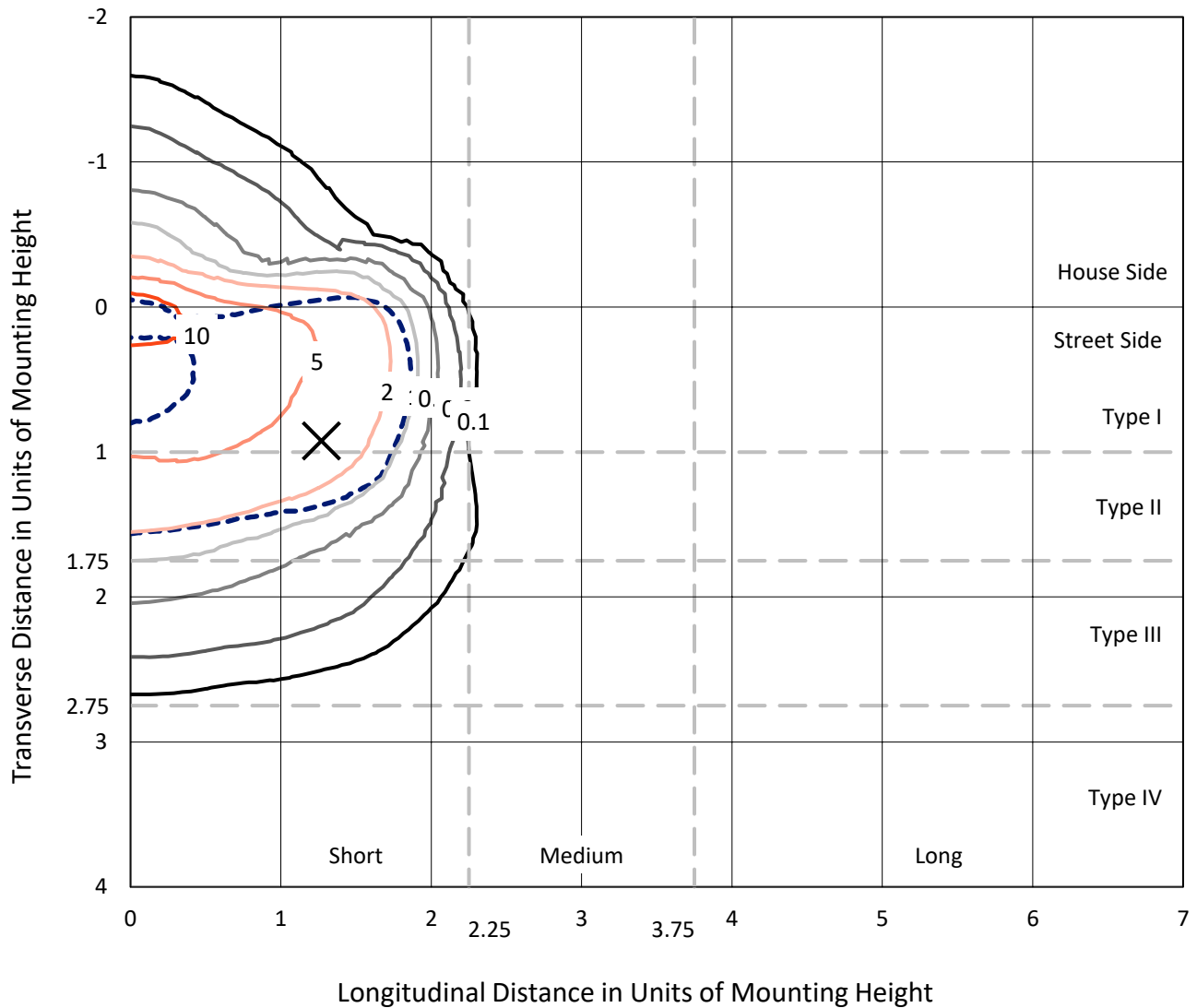
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

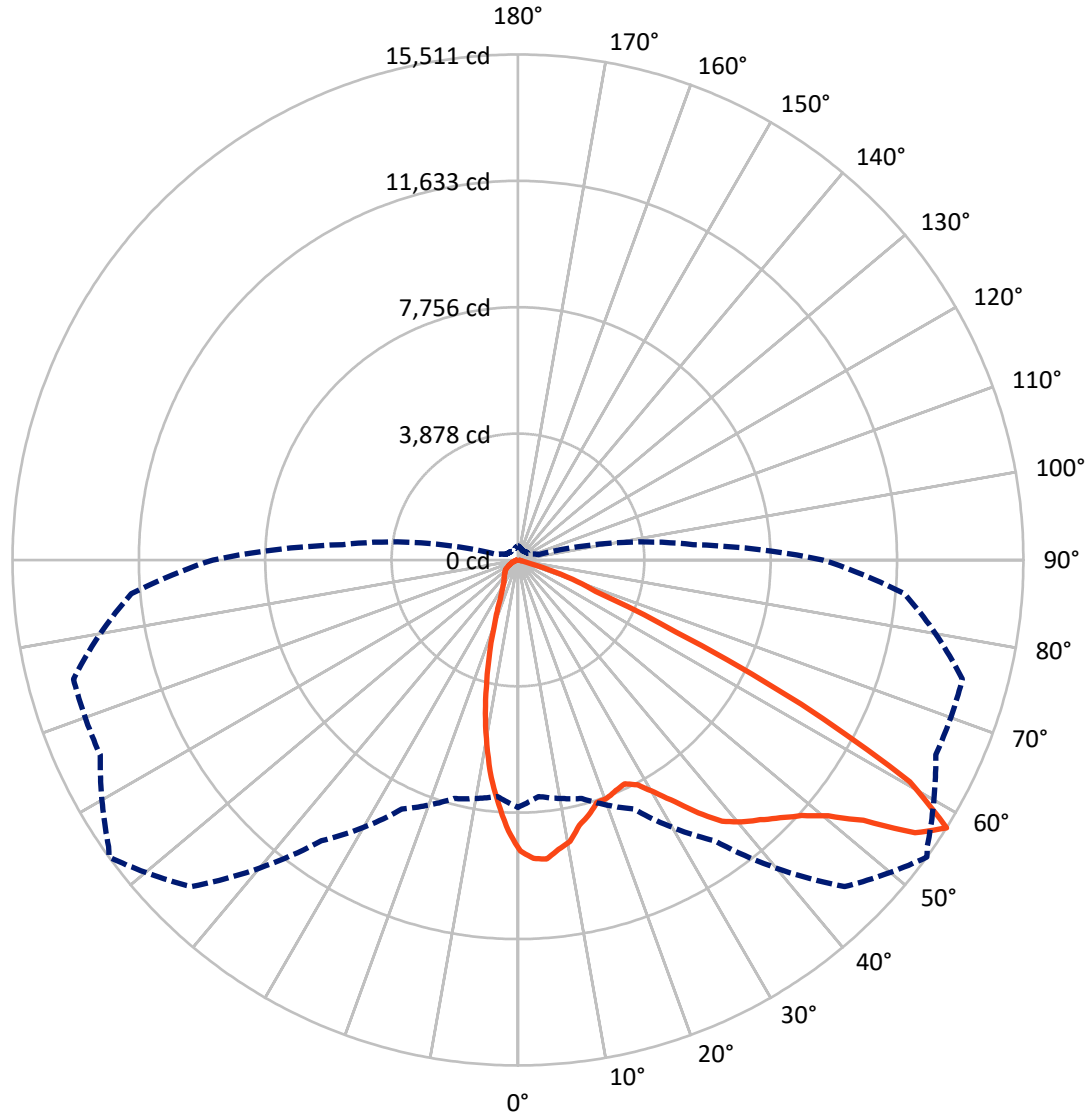
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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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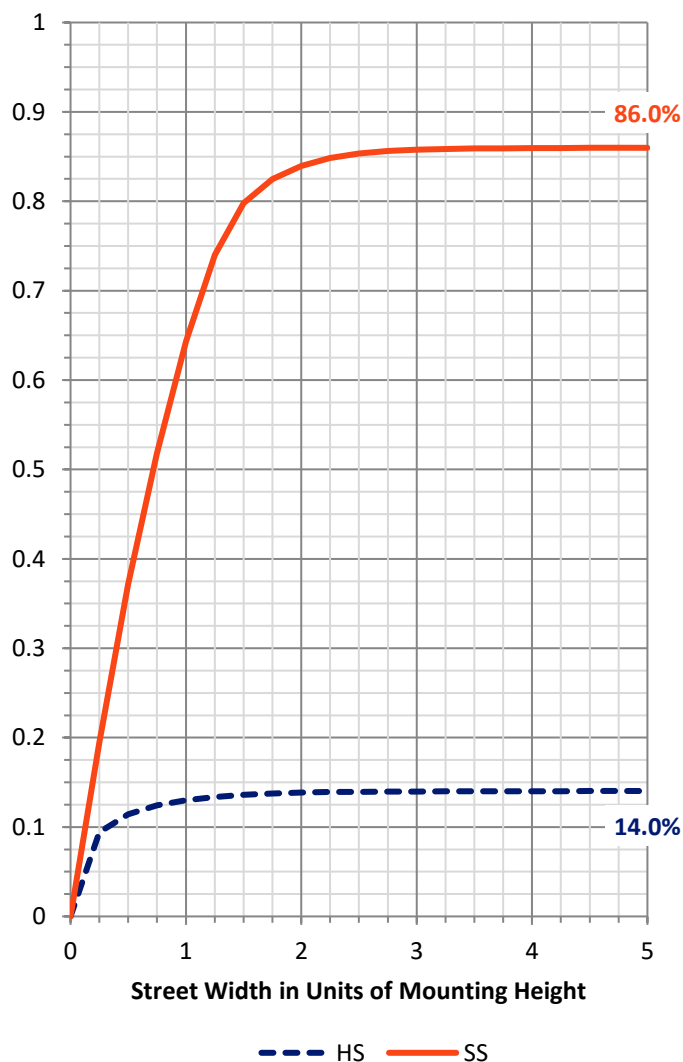
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2865.3	0.0	2865.3
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	17410.7	0.0	17410.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	20276.0	0.0	20276.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	747.4	3.7
10°-20°	1595.8	7.9
20°-30°	2114.7	10.4
30°-40°	3073.2	15.2
40°-50°	4557.2	22.5
50°-60°	5698.6	28.1
60°-70°	2247.8	11.1
70°-80°	223.8	1.1
80°-90°	17.4	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°	20276.0	100.0
0°-180°	20276.0	100.0

**Coefficient of Utilization**



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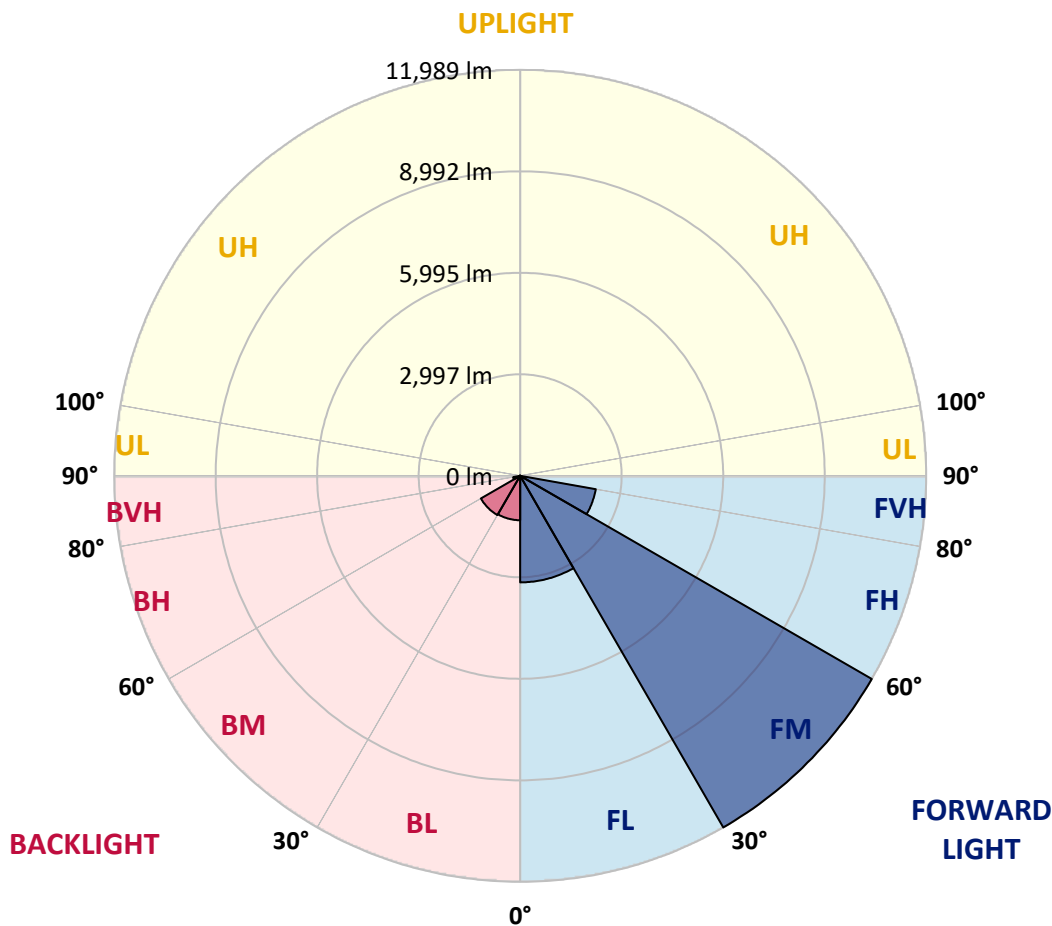
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3147.4	15.5			
FM (30°-60°)	11989.2	59.1			
FH (60°-80°)	2266.2	11.2			G2/5000
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	1310.5	6.5	B3/2500		
BM (30°-60°)	1339.9	6.6	B2/2500		
BH (60°-80°)	205.5	1.0	B1/500		G1/500
BVH (80°-90°)	9.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8931.9	8931.9	8931.9	8931.9	8931.9	8931.9	8931.9	8931.9	8931.9	8931.9	8931.9
2.5°	9452.2	9354.1	9361.7	9327.7	9282.5	9316.4	9169.4	9203.3	9199.5	8999.7	8867.8
5°	9214.6	9320.2	9210.9	9301.3	9214.6	9308.9	9218.4	9150.5	9041.2	8894.1	8649.1
7.5°	8811.2	8709.4	8739.6	8852.7	8871.5	9082.7	8969.6	9056.3	9011.0	8720.7	8385.2
10°	8000.6	7978.0	8128.8	8279.6	8464.3	8690.6	8777.3	8728.3	8694.3	8585.0	8136.3
12.5°	7378.5	7442.6	7438.8	7687.7	8000.6	8128.8	8355.0	8347.5	8536.0	8332.4	7902.6
15°	6786.5	6820.5	6978.8	7133.4	7480.3	7846.0	8125.0	8162.7	8388.9	8245.7	7721.6
17.5°	6424.6	6375.6	6500.0	6684.7	7039.2	7518.0	7827.2	7917.6	8226.8	8196.6	7514.2
20°	6066.4	6066.4	6168.2	6386.9	6711.1	7250.3	7800.8	7774.4	8226.8	8140.1	7291.8
22.5°	5945.8	6006.1	6032.5	6198.4	6583.0	7046.7	7687.7	7736.7	8290.9	8113.7	7193.7
25°	6111.7	6032.5	6040.0	6172.0	6533.9	6948.7	7604.7	7714.0	8407.8	8245.7	7114.6
27.5°	6138.1	6217.2	6239.9	6330.3	6571.6	6978.8	7812.1	8034.5	8698.1	8554.8	7137.2
30°	6368.0	6447.2	6443.5	6598.0	6763.9	7223.9	8275.8	8321.1	9297.6	8943.2	7276.7
32.5°	6647.0	6730.0	6756.4	6937.4	7069.3	7672.6	8841.4	8958.2	9874.4	9554.0	7642.4
35°	6993.9	6963.8	7084.4	7265.4	7548.1	8328.6	9531.3	9727.4	10496.5	10345.7	8019.4
37.5°	7427.5	7389.8	7506.7	7800.8	8185.3	9105.3	10168.5	10296.7	10949.0	11080.9	8716.9
40°	7732.9	7748.0	8102.4	8498.3	8905.5	9844.3	10571.9	10696.4	11265.7	11767.1	9244.8
42.5°	8241.9	8336.1	8762.2	9244.8	9670.8	10398.5	10899.9	11020.6	11412.7	12317.6	9957.4
45°	8980.9	8939.4	9410.7	9949.8	10421.1	10975.4	11288.3	11246.8	11499.4	12864.3	10406.0
47.5°	9931.0	9938.5	10251.5	10711.4	11201.6	11476.8	11721.9	11574.8	11680.4	13441.1	11005.5
50°	10579.5	10636.0	10888.6	11359.9	11605.0	12027.3	12340.2	12249.7	12215.8	13788.0	11382.5
52.5°	10745.4	10915.0	11050.8	11638.9	12212.0	12879.4	13279.0	13471.3	12868.0	13904.9	11861.4
55°	9493.6	9644.4	10123.3	10930.1	12442.0	14229.1	14779.6	14783.4	13720.1	14425.2	12196.9
57.5°	7589.6	7284.2	7578.3	8434.2	10519.1	14172.6	15511.0	15333.8	14146.2	14119.8	11906.6
60°	5248.3	5172.9	5191.7	5531.0	7280.5	11273.2	13821.9	14051.9	13026.4	12238.4	9425.8
62.5°	4158.6	4094.6	4011.6	3973.9	4520.6	7024.1	9750.0	10074.3	9109.1	7936.5	5587.6
65°	3257.5	3219.8	3231.2	3382.0	3378.2	3985.2	5331.2	5199.2	4162.4	3076.6	1757.0
67.5°	2198.1	2254.6	2299.9	2756.1	2989.9	2774.9	2575.1	2499.7	1353.5	569.3	388.3
70°	1236.7	1244.2	1293.2	1723.0	2269.7	2152.8	1775.8	1775.8	674.9	207.4	222.4
72.5°	674.9	652.3	607.0	742.7	1010.4	1025.5	791.8	690.0	199.8	135.7	124.4
75°	328.0	324.2	279.0	230.0	218.7	181.0	139.5	128.2	90.5	86.7	75.4
77.5°	67.9	64.1	33.9	33.9	37.7	41.5	52.8	52.8	64.1	64.1	52.8
80°	0.0	0.0	3.8	15.1	26.4	37.7	45.2	45.2	52.8	52.8	41.5
82.5°	0.0	0.0	3.8	11.3	22.6	33.9	41.5	45.2	52.8	56.6	45.2
85°	0.0	0.0	0.0	7.5	18.9	26.4	22.6	22.6	18.9	15.1	7.5
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°	8931.9	8931.9	8931.9	8931.9	8931.9	8931.9	8931.9	8931.9	8931.9	8931.9	8931.9
2.5°	8799.9	8792.3	8618.9	8520.9	8343.7	8189.1	8064.7	7974.2	7974.2	7917.6	7864.9
5°	8551.1	8487.0	8117.5	7879.9	7544.4	7295.5	7125.9	6993.9	6786.5	6843.1	6620.7
7.5°	8241.9	8079.8	7589.6	7227.7	6763.9	6409.5	6047.6	5727.1	5417.9	5278.4	5353.8
10°	7910.1	7627.3	6967.5	6394.4	5817.6	5169.1	4746.8	4234.1	3917.3	3898.5	3815.5
12.5°	7559.5	7239.0	6435.9	5644.1	4886.3	4105.9	3461.1	2982.3	2767.4	2529.9	2575.1
15°	7295.5	6820.5	5844.0	4890.1	3883.4	3095.4	2446.9	2077.4	1873.8	1817.3	1798.4
17.5°	7009.0	6500.0	5240.7	4087.0	3046.4	2228.2	1760.7	1583.5	1504.4	1504.4	1493.0
20°	6711.1	6138.1	4641.2	3340.5	2284.8	1662.7	1410.1	1353.5	1349.8	1346.0	1346.0
22.5°	6515.1	5723.3	4098.3	2654.3	1723.0	1330.9	1225.3	1202.7	1217.8	1263.1	1263.1
25°	6307.7	5323.7	3498.8	2047.3	1334.7	1142.4	1082.1	1097.2	1134.9	1176.3	1161.3
27.5°	6096.6	5063.5	2933.3	1606.1	1093.4	999.1	976.5	1010.4	1051.9	1089.6	1078.3
30°	6047.6	4784.5	2397.9	1217.8	938.8	870.9	886.0	916.2	957.7	972.7	987.8
32.5°	6123.0	4565.8	1964.3	999.1	818.2	799.3	799.3	814.4	840.8	874.7	863.4
35°	6337.9	4441.4	1553.4	867.2	750.3	731.4	727.7	742.7	757.8	769.1	757.8
37.5°	6665.9	4343.4	1270.6	769.1	705.0	674.9	667.3	663.6	678.7	682.4	690.0
40°	7084.4	4396.2	1078.3	708.8	659.8	625.9	603.2	603.2	603.2	614.6	618.3
42.5°	7536.8	4467.8	931.3	674.9	618.3	576.9	554.2	546.7	554.2	569.3	565.5
45°	8011.9	4607.3	837.0	622.1	580.6	527.8	497.7	490.1	509.0	539.2	535.4
47.5°	8456.8	4807.1	765.4	588.2	542.9	493.9	456.2	448.7	482.6	524.1	527.8
50°	8901.7	5154.0	739.0	561.8	516.5	460.0	426.0	418.5	456.2	509.0	520.3
52.5°	9414.4	5527.3	720.1	527.8	486.4	433.6	395.9	388.3	429.8	497.7	501.5
55°	9750.0	5844.0	705.0	467.5	429.8	392.1	361.9	358.2	403.4	463.7	478.8
57.5°	9357.9	5402.8	652.3	407.2	365.7	346.9	320.5	320.5	358.2	414.7	426.0
60°	7095.7	3555.4	463.7	328.0	309.2	297.9	286.5	286.5	316.7	358.2	361.9
62.5°	4154.9	1915.3	297.9	263.9	263.9	252.6	233.8	233.8	263.9	286.5	290.3
65°	1232.9	614.6	241.3	226.2	222.4	203.6	184.7	181.0	203.6	214.9	211.1
67.5°	354.4	282.8	199.8	188.5	184.7	154.6	143.3	139.5	143.3	135.7	132.0
70°	211.1	192.3	154.6	158.4	139.5	113.1	101.8	98.0	90.5	79.2	71.6
72.5°	116.9	116.9	113.1	120.6	98.0	75.4	64.1	52.8	41.5	33.9	30.2
75°	71.6	75.4	79.2	82.9	64.1	49.0	41.5	26.4	15.1	7.5	7.5
77.5°	49.0	52.8	56.6	60.3	52.8	45.2	33.9	18.9	3.8	0.0	0.0
80°	37.7	41.5	49.0	52.8	56.6	60.3	45.2	18.9	3.8	0.0	0.0
82.5°	41.5	45.2	56.6	52.8	52.8	52.8	41.5	18.9	3.8	0.0	0.0
85°	7.5	11.3	18.9	18.9	26.4	33.9	26.4	7.5	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)