

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: P533531

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533531  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
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-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25864 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

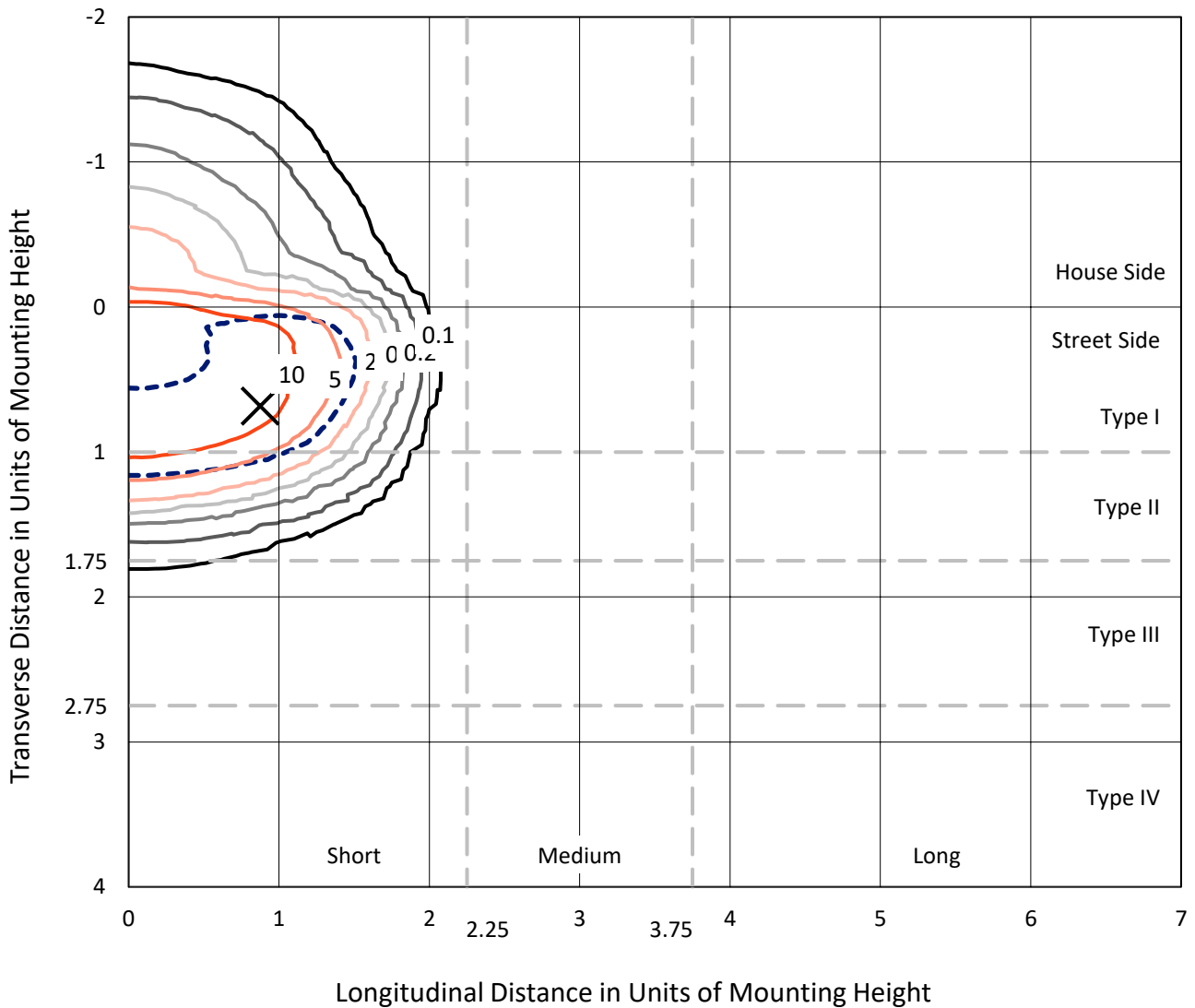
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

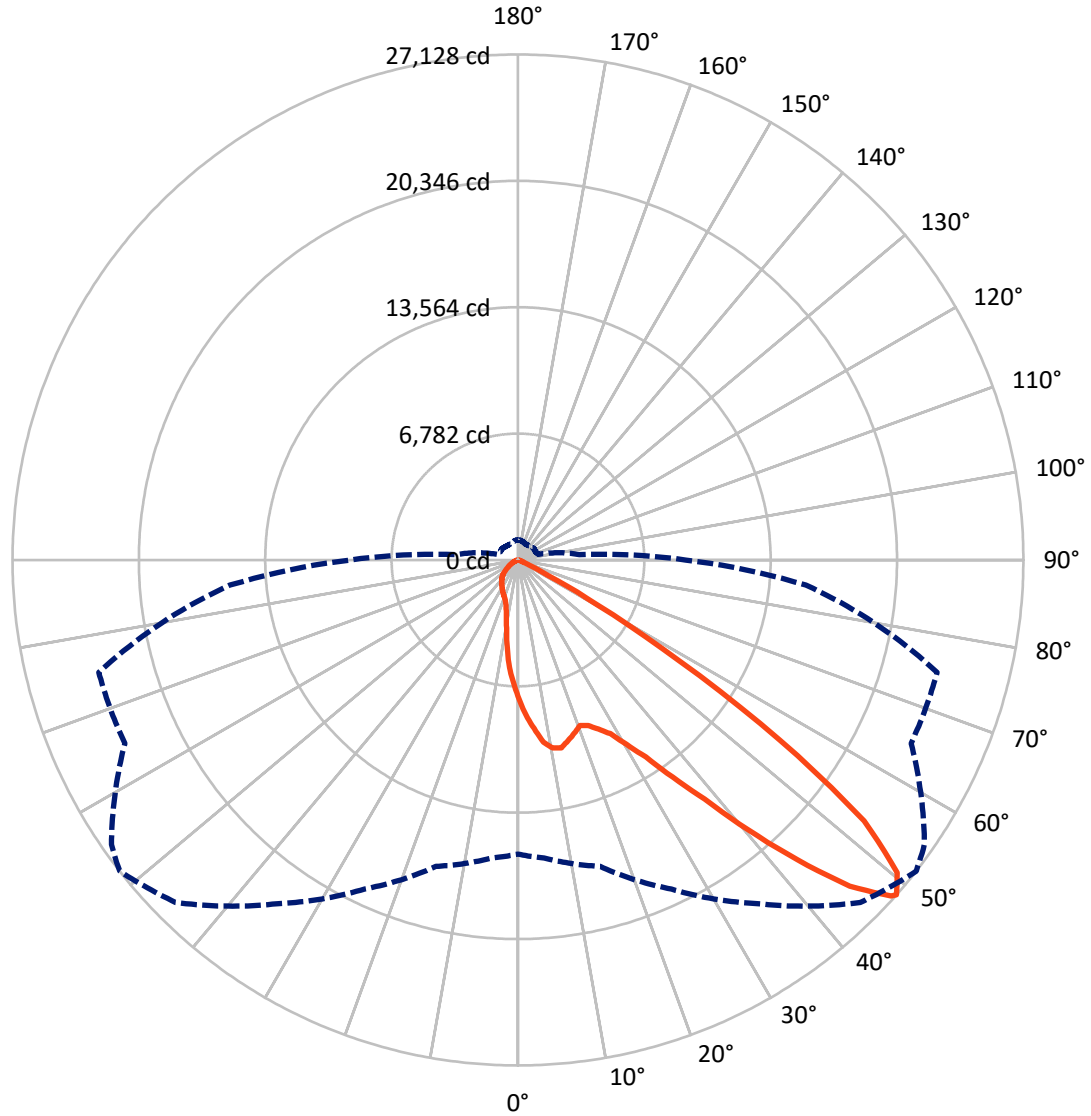
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 48-Deg Vertical

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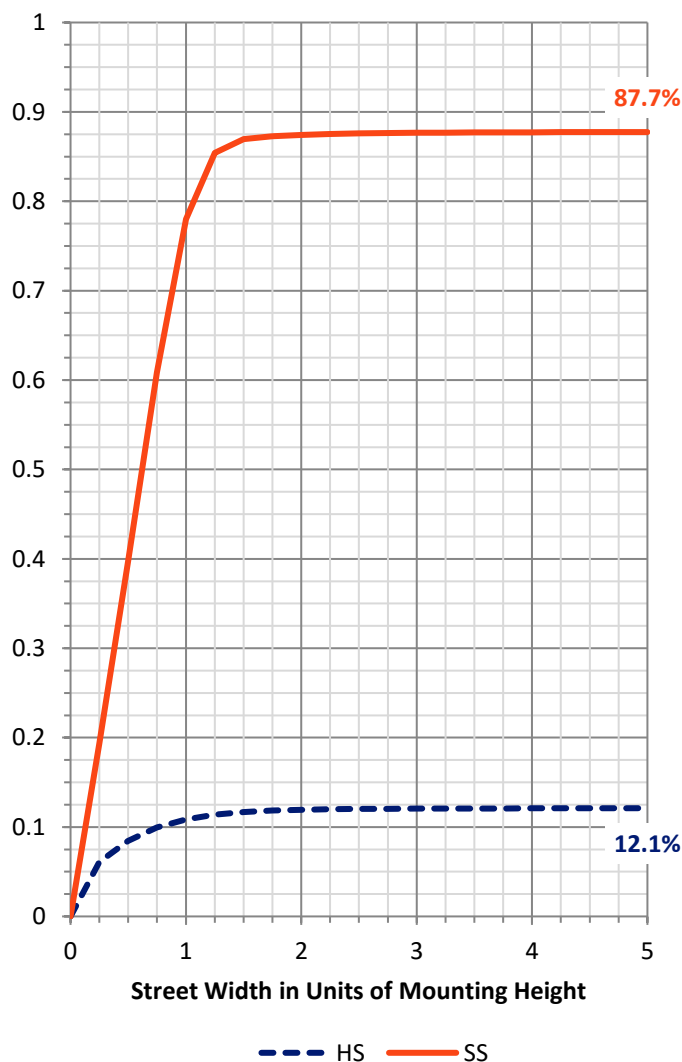
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3149.2	0.0	3149.2
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	22714.9	0.0	22714.9
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	25864.0	0.0	25864.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	683.6	2.6
10°-20°	1786.6	6.9
20°-30°	3050.4	11.8
30°-40°	5617.4	21.7
40°-50°	8723.8	33.7
50°-60°	5250.2	20.3
60°-70°	607.2	2.3
70°-80°	117.5	0.5
80°-90°	27.2	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°	25864.0	100.0
0°-180°	25864.0	100.0

**Coefficient of Utilization**



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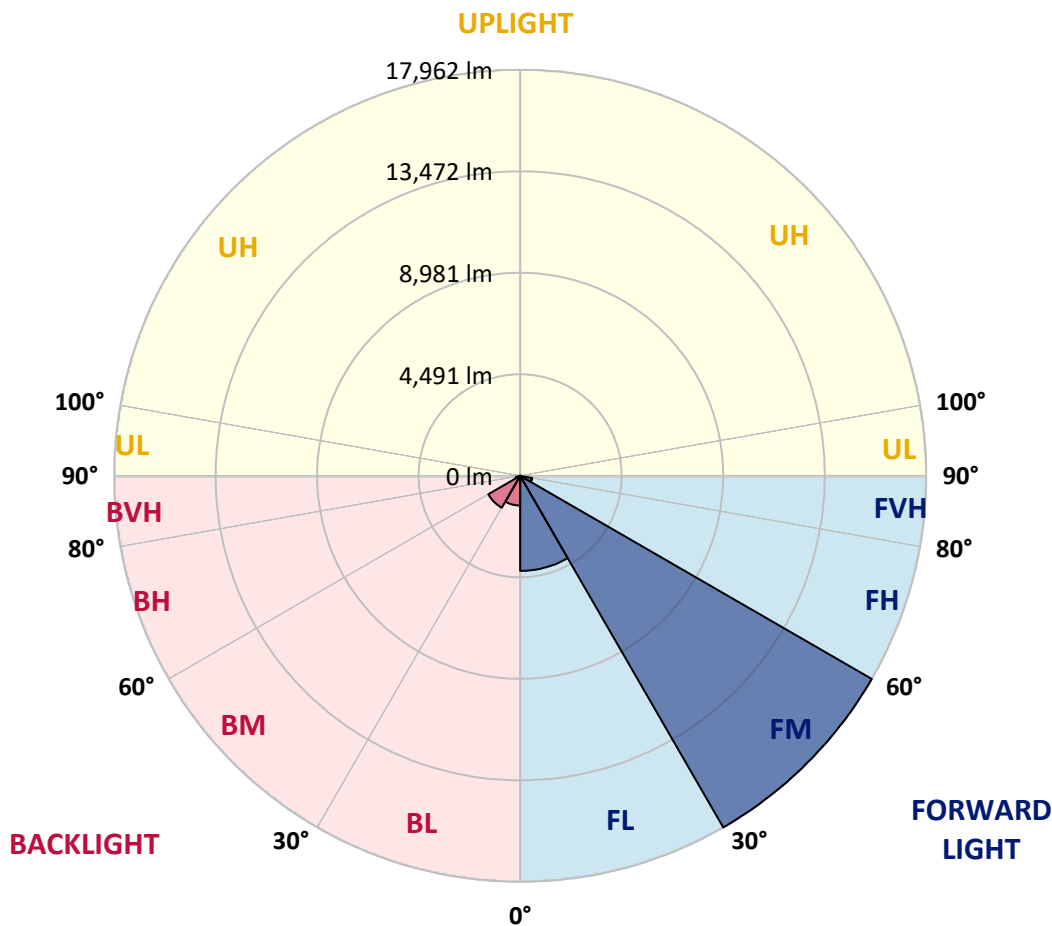
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4205.2	16.3			
FM (30°-60°)	17962.0	69.4			
FH (60°-80°)	534.7	2.1			G0/660
FVH (80°-90°)	12.9	0.1			G1/100
BL (0°-30°)	1315.5	5.1	B3/2500		
BM (30°-60°)	1629.3	6.3	B2/2500		
BH (60°-80°)	190.1	0.7	B1/500		G1/500
BVH (80°-90°)	14.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1
2.5°	9052.6	8845.3	8864.1	8728.4	8649.2	8521.0	8347.6	8313.7	8125.1	7868.8	7608.6
5°	9867.0	9818.0	9882.1	9686.1	9693.6	9482.5	9075.3	9082.8	8649.2	8230.7	7827.3
7.5°	9919.8	9806.7	9870.8	10044.3	10146.1	10108.3	9878.4	9678.5	9267.6	8653.0	8064.8
10°	8883.0	9097.9	9165.8	9452.3	9859.5	10289.3	10262.9	10274.2	9931.1	9128.1	8268.4
12.5°	8260.9	8117.6	8347.6	8521.0	9135.6	9968.8	10349.7	10432.6	10459.0	9588.0	8472.0
15°	7978.1	7978.1	8015.8	8064.8	8509.7	9278.9	10055.6	10296.9	10866.2	10191.3	8792.5
17.5°	8155.3	8147.8	8200.5	8098.7	8264.6	8856.6	9784.1	10059.3	11322.4	10783.2	9045.1
20°	8694.5	8720.9	8686.9	8392.8	8404.1	8849.0	9482.5	9916.1	11631.6	11296.0	9380.7
22.5°	9444.8	9459.8	9267.6	8947.1	8852.8	9071.5	9655.9	9987.7	11880.4	11910.6	9482.5
25°	10311.9	10251.6	10213.9	9761.5	9474.9	9663.4	10048.0	10240.3	12035.0	12438.4	9772.8
27.5°	11514.7	11394.0	11164.1	10760.6	10549.5	10281.8	10557.0	10873.7	12476.1	13177.4	10089.5
30°	13290.5	13185.0	12736.3	12216.0	11661.7	11397.8	11484.5	11658.0	13271.7	14033.3	10508.0
32.5°	15963.7	15741.3	15092.8	14101.2	13347.1	12619.4	12596.8	12781.5	13984.3	15217.2	11005.7
35°	18908.4	18840.5	17886.6	16864.8	15405.7	14282.1	14301.0	14399.0	15349.2	16770.6	11658.0
37.5°	20865.2	21238.5	20631.4	19534.3	18308.9	16702.7	16295.5	16329.5	17223.0	18610.5	12834.3
40°	22377.1	22060.4	22132.0	21875.7	21038.6	19945.2	19044.1	18866.9	19391.0	20646.5	14003.1
42.5°	21717.3	21732.4	22173.5	22780.5	22987.9	22908.7	21988.8	21653.2	21246.0	22313.0	15115.4
45°	19854.7	20243.1	20816.2	22422.4	23832.5	25155.9	24974.9	24416.9	22527.9	23632.6	15756.4
47.5°	16883.7	16868.6	17807.4	19896.2	23029.4	26128.6	26950.6	26558.5	23436.6	23485.6	15624.4
48°	15786.5	16058.0	17027.0	19485.2	22520.4	25985.4	27127.8	26633.9	23282.0	23289.5	15511.3
50°	11669.3	11620.3	12826.8	15843.1	20114.9	24416.9	26381.2	26765.8	23278.2	22297.9	14719.5
52.5°	6164.5	6375.7	7254.2	9961.3	14221.8	19982.9	23270.7	23870.2	22456.3	20676.7	13580.9
55°	2620.4	2367.8	3042.7	4498.0	8000.7	13350.9	17072.2	18406.9	18987.6	18297.6	11880.4
57.5°	935.1	1021.8	1176.4	1692.9	3363.2	7307.0	10180.0	11216.8	13154.8	13426.3	8095.0
60°	599.5	610.8	659.8	776.7	1263.1	2816.5	4829.8	5655.5	6534.0	6745.2	3777.9
62.5°	463.8	467.5	490.1	509.0	599.5	1093.4	1813.5	2149.1	2232.1	1919.1	991.6
65°	388.3	392.1	399.7	399.7	426.1	512.8	633.4	697.5	678.7	671.1	561.8
67.5°	297.9	305.4	320.5	320.5	335.6	312.9	350.6	373.3	422.3	512.8	478.8
70°	233.8	237.5	248.8	256.4	256.4	226.2	252.6	275.2	309.2	380.8	377.0
72.5°	181.0	188.5	196.1	196.1	184.7	154.6	181.0	199.8	222.5	263.9	256.4
75°	139.5	139.5	143.3	116.9	90.5	79.2	109.3	132.0	165.9	173.4	143.3
77.5°	37.7	41.5	37.7	33.9	37.7	56.6	71.6	82.9	105.6	105.6	94.3
80°	0.0	3.8	11.3	22.6	37.7	52.8	64.1	71.6	82.9	90.5	86.7
82.5°	0.0	3.8	11.3	22.6	33.9	41.5	56.6	60.3	67.9	79.2	79.2
85°	0.0	3.8	7.5	15.1	22.6	26.4	26.4	22.6	22.6	18.9	15.1
87.5°	0.0	0.0	3.8	7.5	7.5	11.3	11.3	11.3	11.3	11.3	11.3
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°	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1
2.5°	7506.8	7389.9	7212.7	6933.7	6666.0	6492.6	6326.7	6141.9	6040.1	6032.6	5976.0
5°	7597.3	7333.4	6911.1	6432.2	5919.5	5478.3	5033.4	4743.1	4483.0	4339.7	4313.3
7.5°	7646.3	7303.2	6620.8	5817.7	4942.9	4222.8	3725.1	3359.4	3216.1	3110.6	3106.8
10°	7748.1	7250.4	6187.2	5003.3	3921.2	3193.5	2850.4	2684.5	2605.3	2575.2	2529.9
12.5°	7823.5	7152.4	5742.3	4166.3	3099.2	2646.8	2496.0	2458.3	2462.0	2477.1	2458.3
15°	7929.1	7065.7	5142.8	3419.7	2601.6	2382.9	2382.9	2390.4	2443.2	2450.7	2447.0
17.5°	7921.5	6896.0	4524.4	2816.5	2299.9	2269.8	2281.1	2352.7	2386.6	2398.0	2371.6
20°	8012.0	6737.6	3887.2	2405.5	2130.3	2175.5	2250.9	2269.8	2311.2	2318.8	2288.6
22.5°	7985.6	6341.8	3295.3	2081.2	2002.1	2088.8	2164.2	2186.8	2175.5	2152.9	2149.1
25°	7936.6	6002.4	2752.4	1866.3	1907.8	2002.1	2073.7	2032.2	2009.6	2013.4	2017.1
27.5°	7849.9	5572.6	2303.7	1715.5	1779.6	1919.1	1915.3	1900.3	1922.9	1904.0	1922.9
30°	7834.8	5142.8	1934.2	1579.8	1685.4	1787.2	1794.7	1821.1	1847.5	1813.5	1847.5
32.5°	7857.4	4671.5	1670.3	1496.8	1628.8	1632.6	1715.5	1741.9	1723.1	1647.6	1655.2
35°	8030.9	4309.5	1478.0	1451.6	1538.3	1542.1	1621.3	1587.3	1504.4	1459.1	1485.5
37.5°	8396.6	4007.9	1387.5	1410.1	1417.7	1466.7	1470.4	1402.6	1410.1	1406.3	1421.4
40°	8864.1	3777.9	1323.4	1372.4	1364.9	1398.8	1263.1	1300.8	1334.7	1346.0	1353.6
42.5°	9184.6	3612.0	1281.9	1312.1	1297.0	1236.7	1161.3	1199.0	1225.4	1266.8	1274.4
45°	9327.9	3480.0	1232.9	1206.5	1206.5	1097.2	1067.0	1074.6	1134.9	1180.1	1172.6
47.5°	9094.1	3351.9	1146.2	1067.0	1093.4	1002.9	969.0	969.0	1033.1	1089.6	1078.3
48°	9003.6	3299.1	1150.0	1036.9	1055.7	987.8	953.9	946.4	1018.0	1070.8	1070.8
50°	8555.0	3103.0	1051.9	953.9	916.2	908.7	886.0	893.6	938.8	987.8	987.8
52.5°	7680.2	2680.7	889.8	818.2	750.3	795.5	806.9	791.8	814.4	859.6	855.9
55°	6409.6	2058.6	712.6	678.7	625.9	674.9	697.5	678.7	656.0	690.0	690.0
57.5°	4105.9	1108.5	569.3	576.9	524.1	573.1	591.9	546.7	505.2	531.6	527.9
60°	1851.2	663.6	467.5	456.2	422.3	478.8	509.0	456.2	399.7	418.5	437.4
62.5°	693.7	471.3	354.4	346.9	339.3	392.1	407.2	365.7	309.2	320.5	324.3
65°	509.0	414.7	282.8	256.4	271.5	309.2	301.6	260.2	222.5	222.5	230.0
67.5°	433.6	362.0	230.0	199.8	199.8	203.6	188.5	165.9	154.6	162.1	169.7
70°	339.3	286.5	181.0	154.6	139.5	124.4	109.3	105.6	94.3	105.6	101.8
72.5°	218.7	192.3	139.5	116.9	105.6	86.7	71.6	67.9	56.6	52.8	52.8
75°	116.9	116.9	109.3	94.3	82.9	67.9	56.6	45.2	30.2	22.6	22.6
77.5°	82.9	90.5	98.0	90.5	75.4	56.6	45.2	30.2	15.1	7.5	7.5
80°	79.2	90.5	98.0	86.7	75.4	56.6	41.5	22.6	11.3	3.8	3.8
82.5°	71.6	82.9	90.5	79.2	67.9	49.0	37.7	22.6	11.3	3.8	3.8
85°	15.1	18.9	22.6	22.6	26.4	33.9	26.4	18.9	7.5	3.8	3.8
87.5°	11.3	11.3	11.3	11.3	11.3	11.3	7.5	7.5	3.8	3.8	3.8
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)