

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: P533563

Luminaire Tested: **GALN-SA9A-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533563  
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-730-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 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: 22080 lumens  
Efficiency: N/A  
Efficacy: 80.6 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

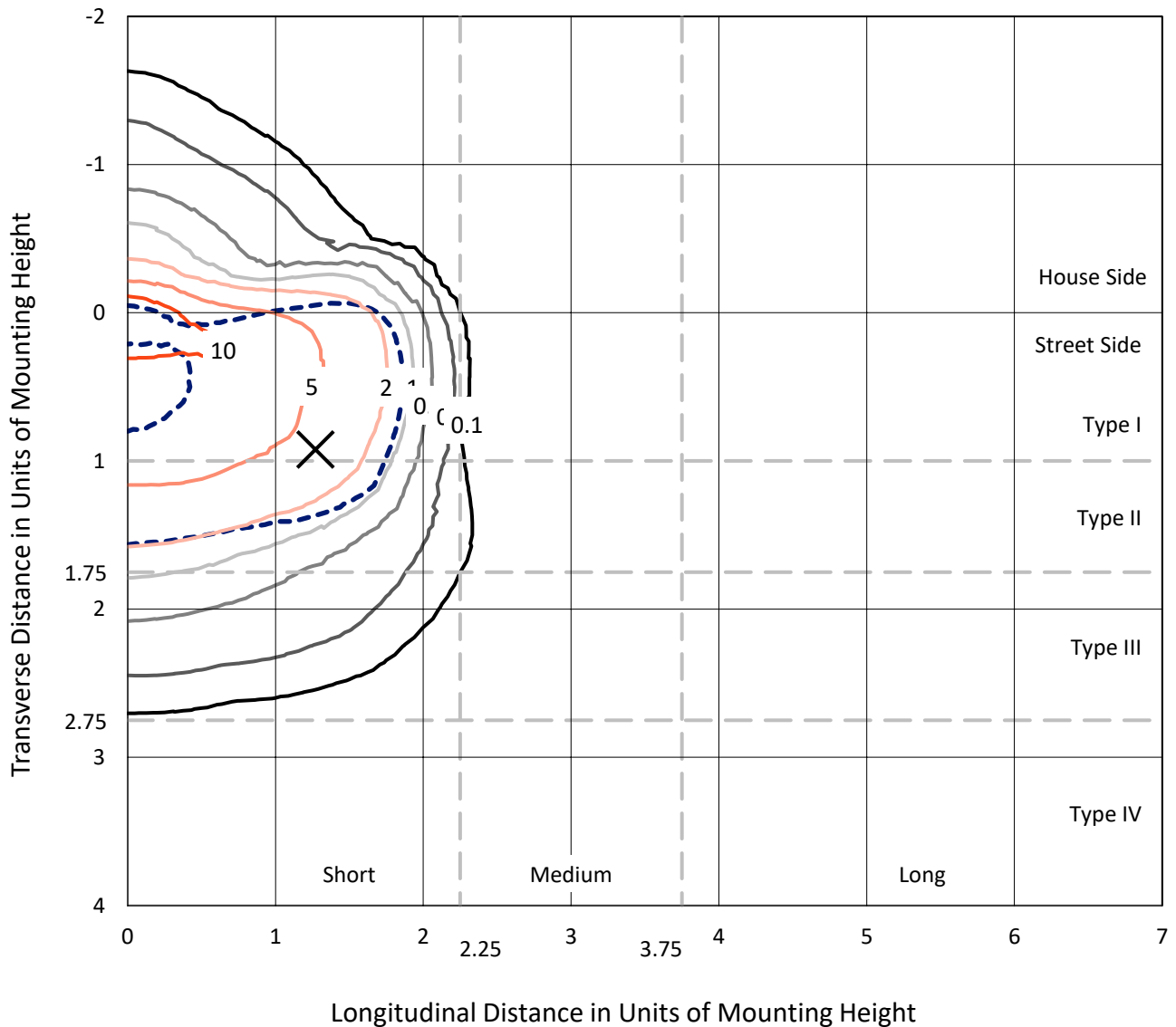
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

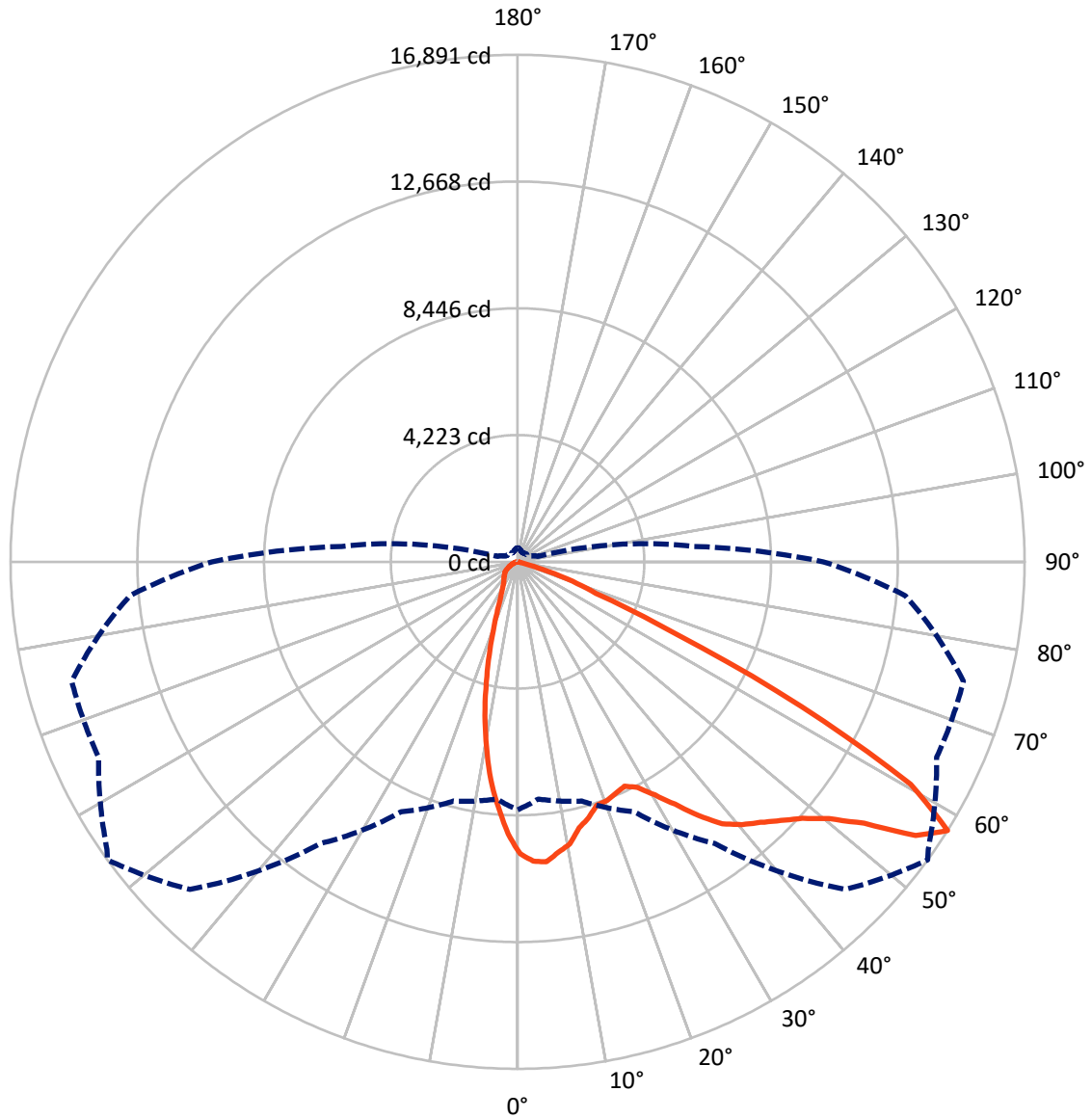
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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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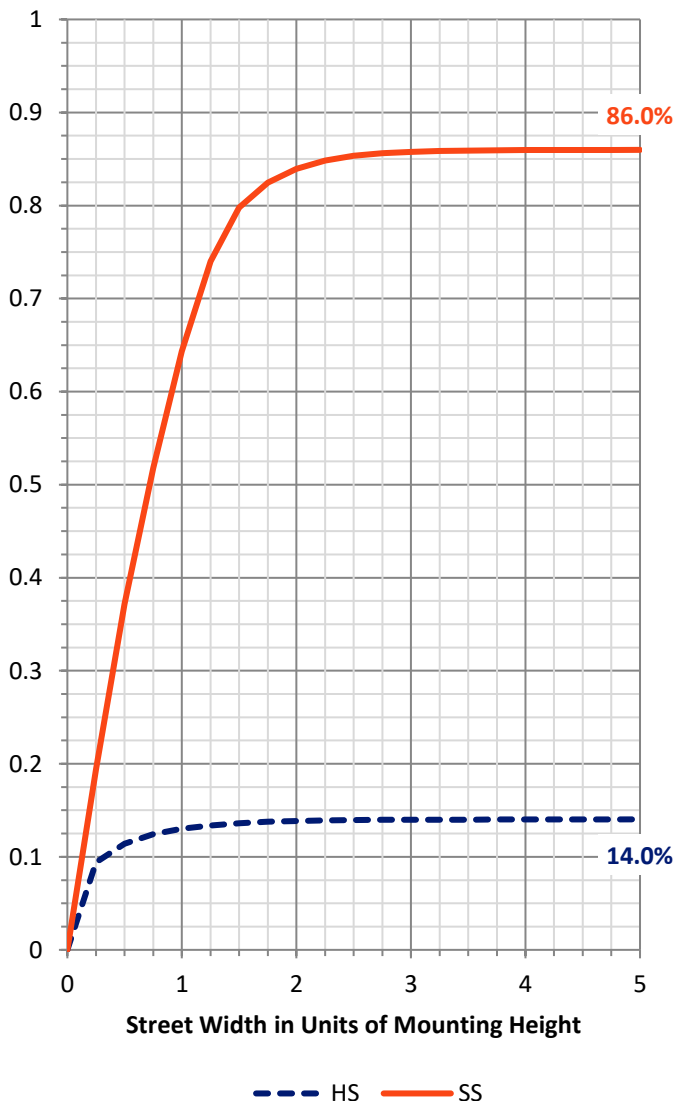
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3120.3	0.0	3120.3
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	18959.7	0.0	18959.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	22080.0	0.0	22080.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	813.9	3.7
10°-20°	1737.7	7.9
20°-30°	2302.8	10.4
30°-40°	3346.7	15.2
40°-50°	4962.7	22.5
50°-60°	6205.6	28.1
60°-70°	2447.8	11.1
70°-80°	243.7	1.1
80°-90°	19.0	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°	22080.0	100.0
0°-180°	22080.0	100.0

**Coefficient of Utilization**



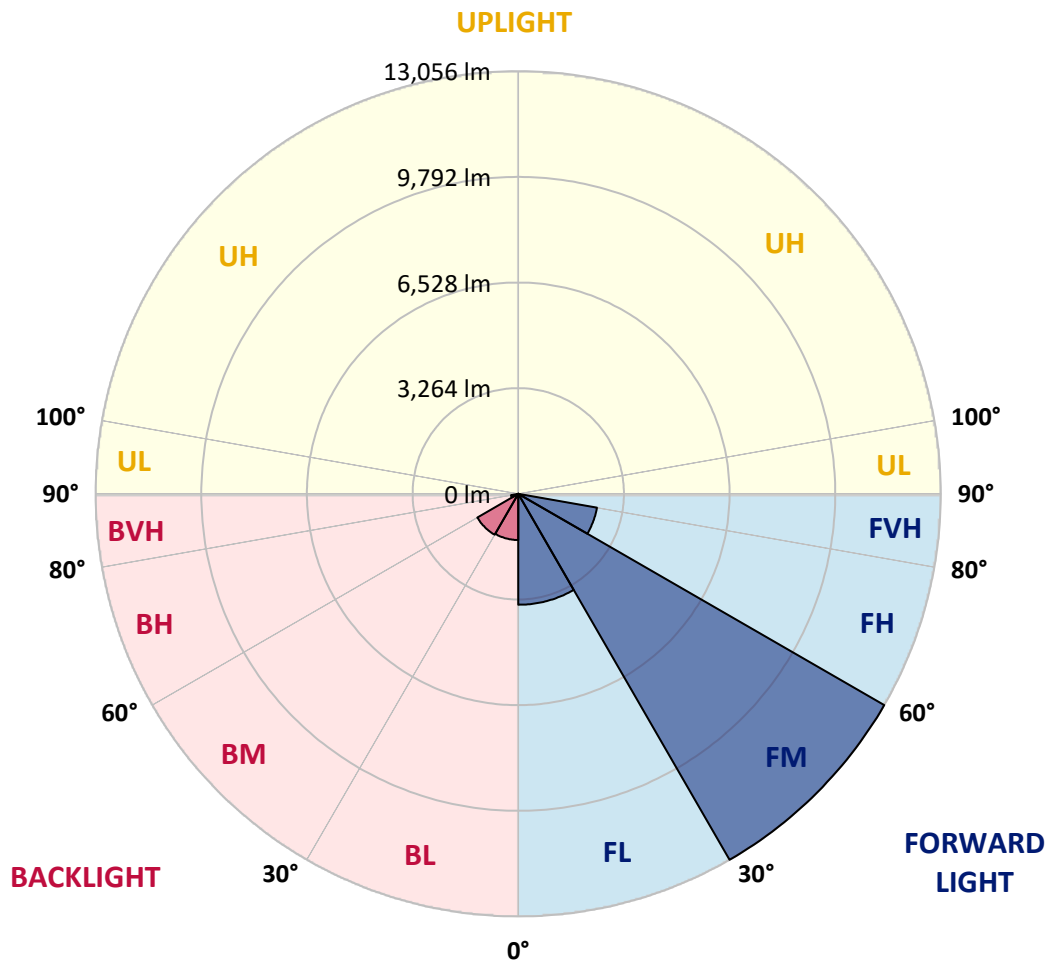
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3427.5	15.5			
FM (30°-60°)	13055.9	59.1			
FH (60°-80°)	2467.8	11.2			G2/5000
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	1427.1	6.5	B3/2500		
BM (30°-60°)	1459.1	6.6	B2/2500		
BH (60°-80°)	223.7	1.0	B1/500		G1/500
BVH (80°-90°)	10.3	0.0			G1/100
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°	9726.5	9726.5	9726.5	9726.5	9726.5	9726.5	9726.5	9726.5	9726.5	9726.5	9726.5
2.5°	10293.1	10186.4	10194.6	10157.6	10108.4	10145.3	9985.2	10022.2	10018.0	9800.4	9656.7
5°	10034.5	10149.4	10030.4	10128.9	10034.5	10137.1	10038.6	9964.7	9845.6	9685.5	9418.6
7.5°	9595.2	9484.3	9517.1	9640.3	9660.8	9890.8	9767.6	9862.0	9812.8	9496.6	9131.2
10°	8712.4	8687.8	8852.0	9016.2	9217.4	9463.8	9558.2	9504.8	9467.9	9348.8	8860.2
12.5°	8035.0	8104.8	8100.7	8371.6	8712.4	8852.0	9098.4	9090.1	9295.4	9073.7	8605.7
15°	7390.4	7427.3	7599.8	7768.1	8145.8	8544.1	8847.9	8889.0	9135.3	8979.3	8408.6
17.5°	6996.2	6942.8	7078.3	7279.5	7665.4	8186.9	8523.6	8622.1	8958.8	8925.9	8182.8
20°	6606.2	6606.2	6717.0	6955.2	7308.2	7895.4	8494.8	8466.1	8958.8	8864.3	7940.5
22.5°	6474.8	6540.5	6569.2	6749.9	7168.7	7673.7	8371.6	8425.0	9028.6	8835.6	7833.8
25°	6655.4	6569.2	6577.4	6721.1	7115.3	7566.9	8281.3	8400.4	9155.8	8979.3	7747.6
27.5°	6684.2	6770.4	6795.0	6893.6	7156.3	7599.8	8507.1	8749.4	9472.0	9316.0	7772.2
30°	6934.6	7020.8	7016.7	7185.1	7365.7	7866.6	9012.1	9061.4	10124.8	9738.9	7924.1
32.5°	7238.4	7328.8	7357.5	7554.6	7698.3	8355.2	9628.0	9755.3	10753.0	10404.0	8322.4
35°	7616.2	7583.3	7714.7	7911.8	8219.7	9069.6	10379.4	10592.9	11430.4	11266.2	8732.9
37.5°	8088.3	8047.3	8174.6	8494.8	8913.6	9915.4	11073.2	11212.8	11923.1	12066.8	9492.5
40°	8420.9	8437.3	8823.3	9254.4	9697.8	10720.1	11512.5	11648.0	12268.0	12814.1	10067.3
42.5°	8975.2	9077.8	9541.8	10067.3	10531.3	11323.7	11869.7	12001.1	12428.1	13413.5	10843.3
45°	9779.9	9734.7	10248.0	10835.1	11348.3	11951.9	12292.6	12247.5	12522.6	14008.8	11331.9
47.5°	10814.6	10822.8	11163.6	11664.5	12198.2	12497.9	12764.8	12604.7	12719.6	14637.0	11984.7
50°	11520.8	11582.3	11857.4	12370.6	12637.5	13097.4	13438.1	13339.6	13302.7	15014.8	12395.3
52.5°	11701.4	11886.2	12034.0	12674.5	13298.5	14025.3	14460.5	14669.9	14012.9	15142.0	12916.7
55°	10338.3	10502.5	11024.0	11902.6	13549.0	15495.1	16094.6	16098.7	14940.8	15708.6	13282.1
57.5°	8264.9	7932.3	8252.6	9184.6	11455.1	15433.5	16891.1	16698.1	15404.8	15376.1	12966.0
60°	5715.2	5633.1	5653.6	6023.1	7928.2	12276.2	15051.7	15302.2	14185.4	13327.3	10264.4
62.5°	4528.6	4458.9	4368.5	4327.5	4922.8	7649.0	10617.5	10970.6	9919.5	8642.6	6084.7
65°	3547.4	3506.3	3518.6	3682.9	3678.8	4339.8	5805.5	5661.8	4532.8	3350.3	1913.3
67.5°	2393.7	2455.2	2504.5	3001.3	3255.9	3021.8	2804.2	2722.1	1474.0	620.0	422.9
70°	1346.7	1354.9	1408.3	1876.3	2471.7	2344.4	1933.8	1933.8	734.9	225.8	242.2
72.5°	734.9	710.3	661.0	808.8	1100.3	1116.8	862.2	751.4	217.6	147.8	135.5
75°	357.2	353.1	303.8	250.5	238.1	197.1	151.9	139.6	98.5	94.4	82.1
77.5°	73.9	69.8	37.0	37.0	41.1	45.2	57.5	57.5	69.8	69.8	57.5
80°	0.0	0.0	4.1	16.4	28.7	41.1	49.3	49.3	57.5	57.5	45.2
82.5°	0.0	0.0	4.1	12.3	24.6	37.0	45.2	49.3	57.5	61.6	49.3
85°	0.0	0.0	0.0	8.2	20.5	28.7	24.6	24.6	20.5	16.4	8.2
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°	9726.5	9726.5	9726.5	9726.5	9726.5	9726.5	9726.5	9726.5	9726.5	9726.5	9726.5
2.5°	9582.8	9574.6	9385.8	9279.0	9086.0	8917.7	8782.2	8683.7	8683.7	8622.1	8564.6
5°	9311.9	9242.1	8839.7	8581.0	8215.6	7944.6	7759.9	7616.2	7390.4	7451.9	7209.7
7.5°	8975.2	8798.6	8264.9	7870.7	7365.7	6979.8	6585.6	6236.6	5900.0	5748.1	5830.2
10°	8613.9	8305.9	7587.4	6963.4	6335.2	5629.0	5169.1	4610.8	4265.9	4245.4	4155.0
12.5°	8232.0	7883.1	7008.5	6146.3	5321.1	4471.2	3769.1	3247.7	3013.6	2755.0	2804.2
15°	7944.6	7427.3	6363.9	5325.2	4228.9	3370.8	2664.6	2262.3	2040.6	1979.0	1958.4
17.5°	7632.6	7078.3	5707.0	4450.6	3317.5	2426.5	1917.4	1724.4	1638.2	1638.2	1625.9
20°	7308.2	6684.2	5054.2	3637.7	2488.1	1810.6	1535.6	1474.0	1469.9	1465.8	1465.8
22.5°	7094.7	6232.5	4463.0	2890.5	1876.3	1449.3	1334.4	1309.7	1326.2	1375.4	1375.4
25°	6868.9	5797.3	3810.1	2229.4	1453.4	1244.0	1178.4	1194.8	1235.8	1281.0	1264.6
27.5°	6639.0	5514.0	3194.3	1749.1	1190.7	1088.0	1063.4	1100.3	1145.5	1186.6	1174.2
30°	6585.6	5210.2	2611.3	1326.2	1022.3	948.4	964.9	997.7	1042.9	1059.3	1075.7
32.5°	6667.7	4972.1	2139.1	1088.0	890.9	870.4	870.4	886.8	915.6	952.5	940.2
35°	6901.8	4836.6	1691.6	944.3	817.0	796.5	792.4	808.8	825.3	837.6	825.3
37.5°	7259.0	4729.8	1383.6	837.6	767.8	734.9	726.7	722.6	739.0	743.1	751.4
40°	7714.7	4787.3	1174.2	771.9	718.5	681.6	656.9	656.9	656.9	669.2	673.3
42.5°	8207.4	4865.3	1014.1	734.9	673.3	628.2	603.5	595.3	603.5	620.0	615.9
45°	8724.7	5017.2	911.5	677.4	632.3	574.8	542.0	533.7	554.3	587.1	583.0
47.5°	9209.2	5234.8	833.5	640.5	591.2	537.9	496.8	488.6	525.5	570.7	574.8
50°	9693.7	5612.6	804.7	611.8	562.5	500.9	464.0	455.7	496.8	554.3	566.6
52.5°	10252.1	6019.0	784.2	574.8	529.6	472.2	431.1	422.9	468.1	542.0	546.1
55°	10617.5	6363.9	767.8	509.1	468.1	427.0	394.2	390.0	439.3	505.0	521.4
57.5°	10190.5	5883.5	710.3	443.4	398.3	377.7	349.0	349.0	390.0	451.6	464.0
60°	7727.0	3871.7	505.0	357.2	336.7	324.4	312.0	312.0	344.9	390.0	394.2
62.5°	4524.5	2085.7	324.4	287.4	287.4	275.1	254.6	254.6	287.4	312.0	316.1
65°	1342.6	669.2	262.8	246.3	242.2	221.7	201.2	197.1	221.7	234.0	229.9
67.5°	385.9	307.9	217.6	205.3	201.2	168.3	156.0	151.9	156.0	147.8	143.7
70°	229.9	209.4	168.3	172.4	151.9	123.2	110.9	106.7	98.5	86.2	78.0
72.5°	127.3	127.3	123.2	131.4	106.7	82.1	69.8	57.5	45.2	37.0	32.8
75°	78.0	82.1	86.2	90.3	69.8	53.4	45.2	28.7	16.4	8.2	8.2
77.5°	53.4	57.5	61.6	65.7	57.5	49.3	37.0	20.5	4.1	0.0	0.0
80°	41.1	45.2	53.4	57.5	61.6	65.7	49.3	20.5	4.1	0.0	0.0
82.5°	45.2	49.3	61.6	57.5	57.5	57.5	45.2	20.5	4.1	0.0	0.0
85°	8.2	12.3	20.5	20.5	28.7	37.0	28.7	8.2	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)