

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: P948780

Luminaire Tested: **GALN-SB3D-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24146 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

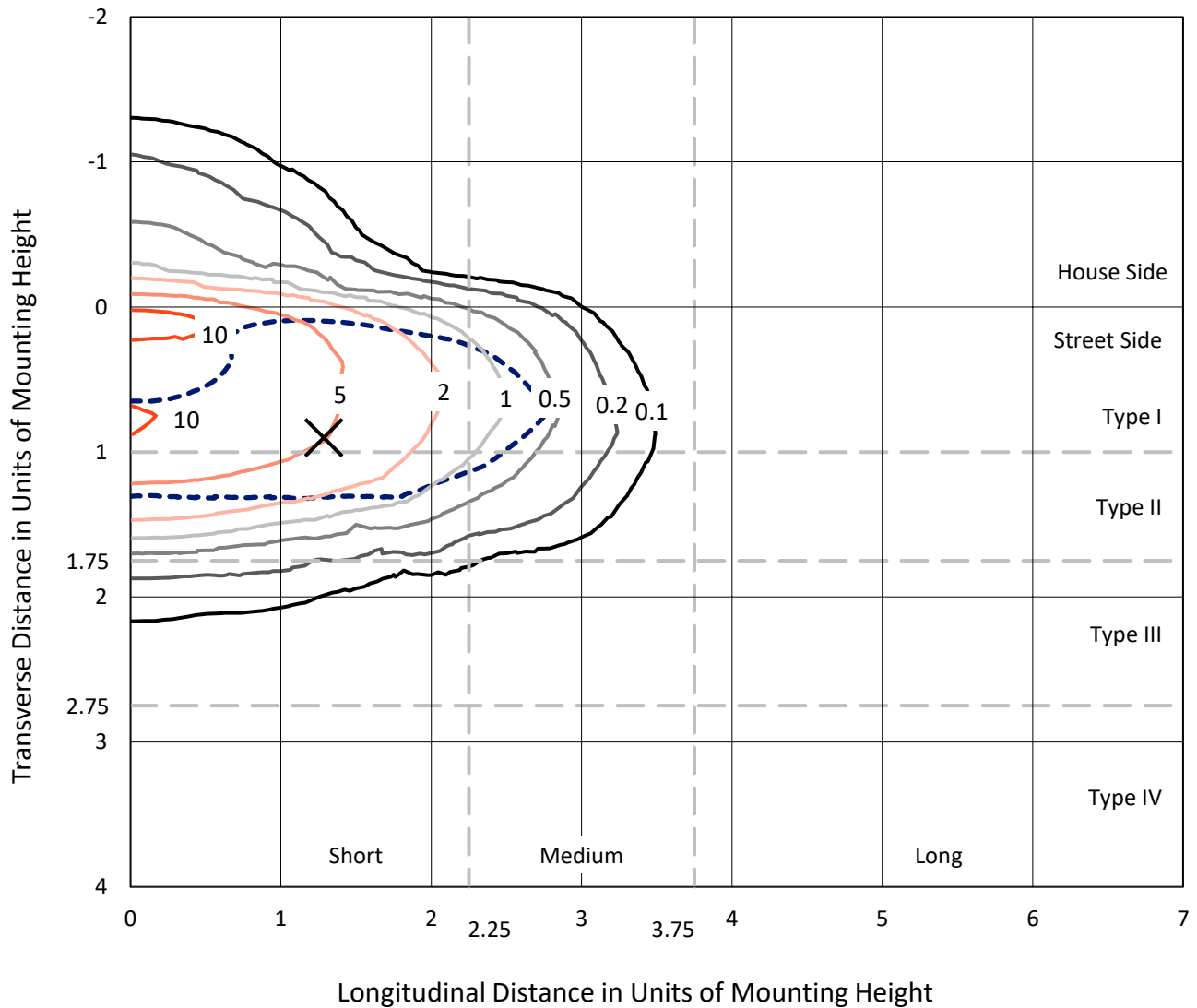
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

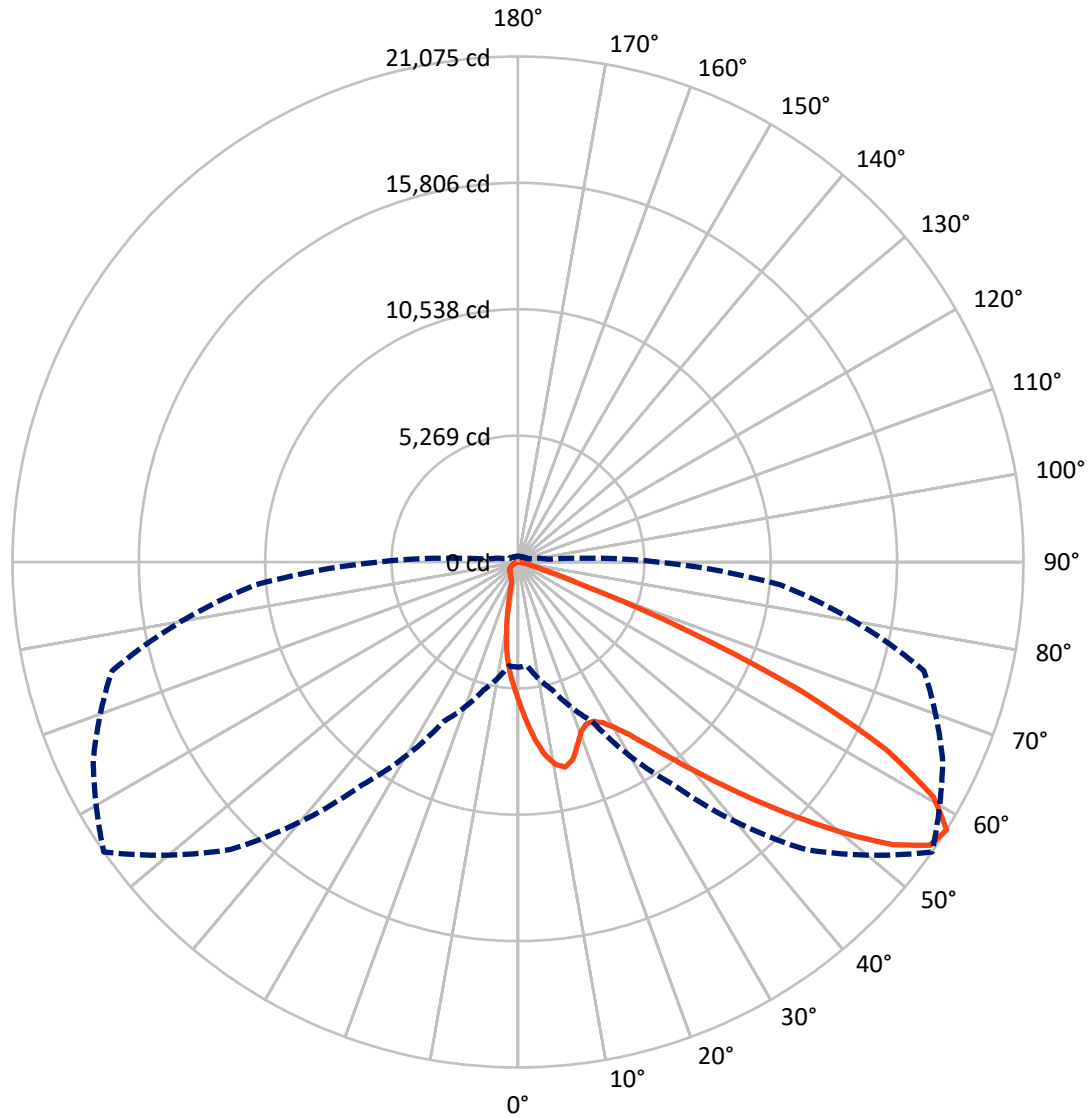
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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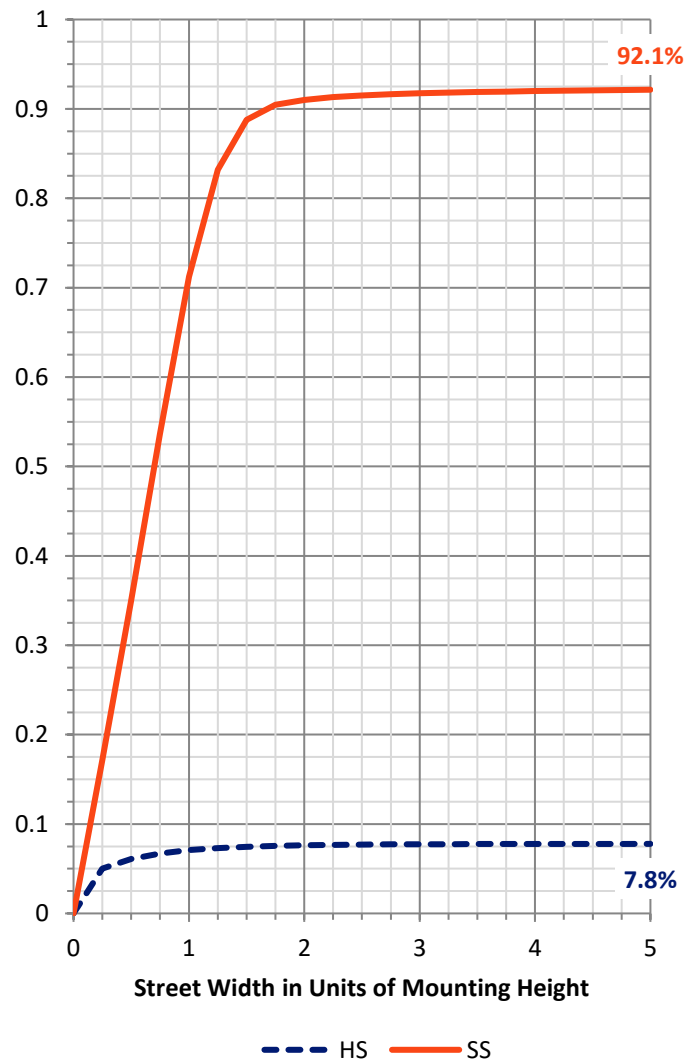
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1885.7	0.0	1885.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	22260.3	0.0	22260.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	24146.0	0.0	24146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.4	2.2
10°-20°	1307.7	5.4
20°-30°	2092.3	8.7
30°-40°	3541.4	14.7
40°-50°	5814.3	24.1
50°-60°	6390.3	26.5
60°-70°	3665.5	15.2
70°-80°	749.0	3.1
80°-90°	44.2	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°	24146.0	100.0
0°-180°	24146.0	100.0

Coefficient of Utilization



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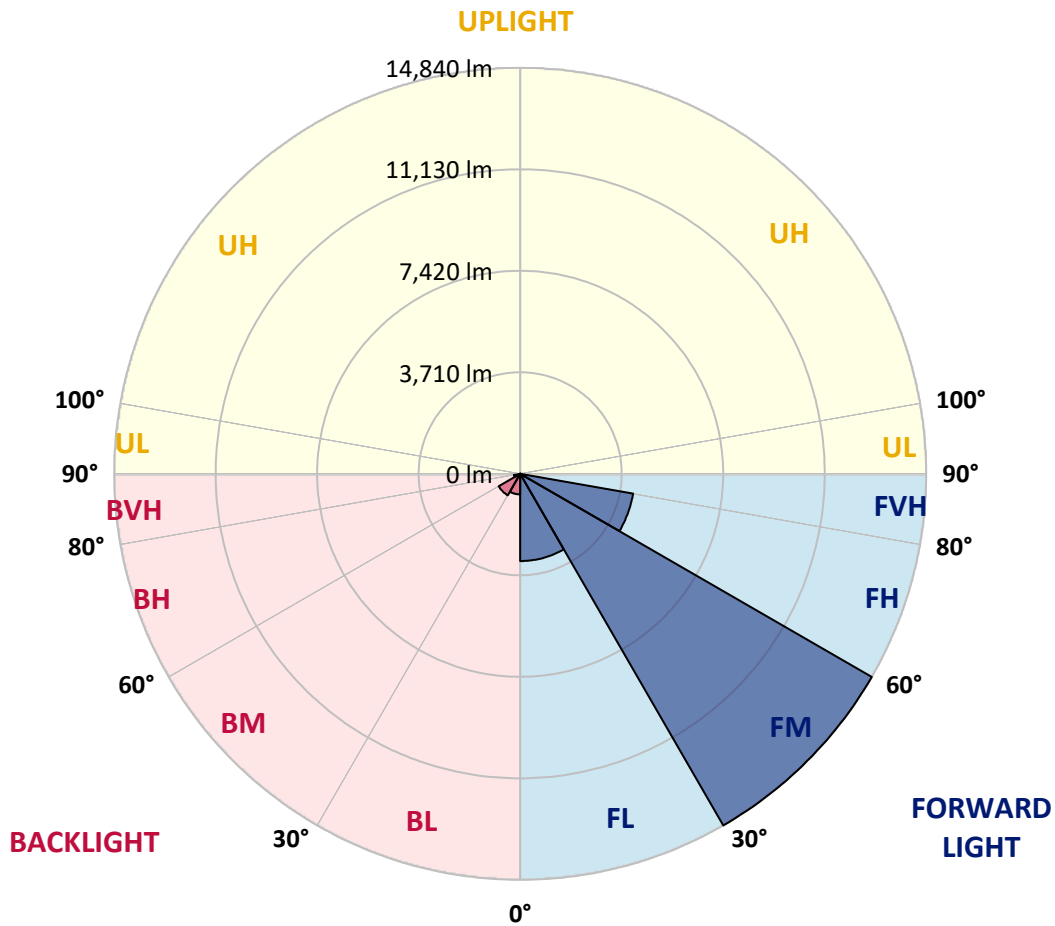
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3188.6	13.2			
FM (30°-60°)	14840.3	61.5			
FH (60°-80°)	4190.2	17.4			G2/5000
FVH (80°-90°)	41.2	0.2			G1/100
BL (0°-30°)	752.8	3.1	B2/1000		
BM (30°-60°)	905.6	3.8	B1/1000		
BH (60°-80°)	224.3	0.9	B1/500		G1/500
BVH (80°-90°)	3.0	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°	65°	75°	85°	90°
0°	5818.6	5818.6	5818.6	5818.6	5818.6	5818.6	5818.6	5818.6	5818.6	5818.6	5818.6
2.5°	7219.6	7128.8	7115.4	7097.5	6924.8	6795.3	6607.7	6402.2	6171.5	5936.2	5832.0
5°	8340.8	8269.3	8255.9	8172.5	7976.0	7755.6	7422.1	7000.8	6570.5	6064.3	5846.9
7.5°	8558.2	8544.8	8605.8	8602.8	8576.0	8401.8	8120.4	7618.7	6972.5	6222.1	5885.6
10°	7588.9	7623.1	7804.8	7964.1	8394.4	8644.5	8583.5	8169.6	7386.4	6402.2	5928.8
12.5°	6706.0	6665.8	6795.3	6975.5	7475.7	8220.2	8775.5	8629.6	7859.9	6606.2	5992.8
15°	6152.1	6135.7	6208.7	6292.1	6673.2	7423.6	8552.2	9003.3	8315.5	6847.4	6089.6
17.5°	5974.9	5961.5	5983.9	6004.7	6251.9	6832.5	8020.7	9232.6	8751.7	7122.9	6196.8
20°	6119.3	6101.5	6098.5	6082.1	6184.9	6580.9	7539.8	9249.0	9143.3	7373.0	6289.1
22.5°	6540.7	6519.9	6446.9	6381.4	6390.3	6615.1	7325.3	9085.2	9438.1	7606.8	6347.1
25°	7304.5	7270.3	7118.4	6898.0	6758.1	6853.4	7358.1	8869.3	9719.5	7789.9	6318.9
27.5°	8260.4	8215.7	8020.7	7693.1	7373.0	7256.9	7594.8	8720.4	9953.2	7929.8	6257.8
30°	9196.9	9138.8	8946.8	8692.2	8224.6	7858.4	8022.2	8786.0	10231.7	8075.8	6177.4
32.5°	10207.8	10152.8	9898.2	9582.5	9195.4	8702.6	8607.3	9106.1	10572.6	8279.7	6120.8
35°	11486.8	11400.4	11038.6	10608.4	10197.4	9698.6	9399.4	9658.4	11026.7	8590.9	6152.1
37.5°	12942.9	12826.8	12436.7	11842.6	11306.6	10748.3	10364.2	10417.8	11692.3	9007.8	6248.9
40°	14315.7	14210.0	13849.7	13289.9	12616.9	11939.4	11530.0	11410.9	12610.9	9515.5	6418.6
42.5°	15139.1	15043.8	14891.9	14655.2	14087.9	13397.1	12880.4	12622.8	13697.8	10123.0	6625.6
45°	15185.2	15101.8	15305.8	15581.3	15469.6	15009.5	14379.7	13907.7	14789.2	10693.2	6840.0
47.5°	14446.7	14390.1	15009.5	15971.3	16450.8	16644.3	16063.7	15085.5	15689.9	11102.7	6927.8
50°	12433.7	12412.9	13687.4	15453.2	16824.5	18076.6	17839.9	16181.3	16388.2	11314.1	6844.4
52.5°	10781.1	10705.1	11448.1	13794.6	16281.0	18830.0	19576.0	17256.3	16876.6	11354.3	6649.4
55°	8177.0	8110.0	9042.0	11019.3	14528.6	18562.0	20846.0	18365.5	17226.5	11251.6	6299.5
57.5°	4386.3	4344.6	5522.3	7334.3	11357.3	16954.0	21075.3	19538.7	17521.3	10979.1	5809.7
60°	1707.8	1700.3	2141.0	3558.5	6902.5	13793.1	19918.4	20243.0	17705.9	10644.1	5400.2
62.5°	1033.3	1055.6	1127.1	1597.6	3049.3	8568.6	17251.8	19442.0	17829.5	10337.4	5062.2
65°	854.6	856.1	865.0	1097.3	1460.6	3585.3	12987.6	16806.6	17524.3	9791.0	4582.8
67.5°	732.5	745.9	780.2	871.0	1030.3	1572.3	7477.2	13018.9	15667.6	8519.4	3835.4
70°	577.7	595.6	638.7	716.2	795.1	984.2	2763.4	8662.4	11969.2	6421.6	2900.4
72.5°	486.9	485.4	507.7	582.2	631.3	692.3	1063.1	4853.8	6956.1	3065.6	1435.3
75°	376.7	391.6	419.9	486.9	516.6	501.8	576.2	1773.3	2492.4	929.1	488.4
77.5°	294.8	306.7	332.0	397.5	427.3	355.8	332.0	634.3	801.0	333.5	220.4
80°	132.5	142.9	226.3	293.3	348.4	245.7	180.2	324.6	355.8	151.9	111.7
82.5°	23.8	40.2	132.5	154.8	178.7	159.3	93.8	168.2	174.2	61.0	38.7
85°	1.5	3.0	46.2	56.6	71.5	52.1	28.3	67.0	58.1	20.8	14.9
87.5°	0.0	0.0	0.0	1.5	1.5	7.4	8.9	11.9	8.9	7.4	6.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5818.6	5818.6	5818.6	5818.6	5818.6	5818.6	5818.6	5818.6	5818.6	5818.6
2.5°	5724.8	5513.4	5307.9	5139.7	5041.4	4874.6	4764.5	4746.6	4700.4	4740.6
5°	5614.6	5236.4	4853.8	4511.3	4229.9	3866.7	3595.7	3481.0	3381.3	3415.5
7.5°	5562.5	4965.5	4369.9	3784.8	3183.3	2602.6	2170.8	1990.6	1853.7	1873.0
10°	5492.5	4684.1	3750.5	2857.2	2051.7	1478.5	1180.7	1070.5	1009.5	1011.0
12.5°	5438.9	4347.6	3031.4	1937.0	1249.2	944.0	851.6	824.8	807.0	808.5
15°	5412.1	3951.5	2321.2	1290.9	893.3	799.5	777.2	765.3	753.4	751.9
17.5°	5367.5	3510.8	1698.8	942.5	781.7	748.9	729.6	716.2	701.3	698.3
20°	5300.5	3010.5	1241.7	796.6	732.5	707.2	680.4	662.6	644.7	641.7
22.5°	5176.9	2482.0	954.4	737.0	696.8	668.5	635.8	614.9	597.0	594.1
25°	4947.6	1986.2	804.0	699.8	665.5	631.3	595.6	567.3	550.9	547.9
27.5°	4657.3	1560.4	729.6	665.5	625.3	594.1	553.9	527.1	512.2	509.2
30°	4314.8	1201.5	686.4	626.8	577.7	550.9	515.2	492.8	483.9	483.9
32.5°	3945.6	960.3	668.5	588.1	536.0	506.2	477.9	469.0	466.0	464.5
35°	3598.7	833.8	659.6	556.8	498.8	470.5	458.6	460.1	466.0	466.0
37.5°	3290.5	793.6	655.1	534.5	466.0	440.7	448.2	461.6	455.6	455.6
40°	3012.0	798.0	652.1	518.1	439.2	424.3	439.2	428.8	413.9	412.4
42.5°	2799.1	835.3	646.2	504.7	422.8	412.4	406.5	390.1	388.6	391.6
45°	2644.3	868.0	644.7	498.8	405.0	385.6	378.2	361.8	391.6	399.0
47.5°	2461.1	868.0	644.7	477.9	375.2	367.8	355.8	338.0	367.8	375.2
50°	2224.4	812.9	619.4	454.1	351.4	346.9	326.1	303.7	297.8	302.2
52.5°	1925.1	713.2	555.4	421.4	327.6	318.6	293.3	276.9	272.5	272.5
55°	1584.2	597.0	469.0	373.7	302.2	285.9	268.0	260.6	256.1	253.1
57.5°	1287.9	489.8	376.7	332.0	278.4	257.6	251.6	242.7	235.2	230.8
60°	1057.1	385.6	311.2	294.8	254.6	235.2	233.8	221.8	202.5	199.5
62.5°	815.9	282.9	262.0	256.1	230.8	214.4	211.4	187.6	157.8	151.9
65°	576.2	220.4	211.4	224.8	205.5	190.6	183.1	147.4	116.1	111.7
67.5°	405.0	184.6	166.8	196.5	178.7	159.3	154.8	125.1	96.8	93.8
70°	288.8	150.4	137.0	168.2	142.9	140.0	131.0	104.2	78.9	75.9
72.5°	204.0	114.6	105.7	145.9	98.3	120.6	107.2	80.4	59.6	56.6
75°	150.4	81.9	74.4	84.9	71.5	90.8	75.9	53.6	37.2	35.7
77.5°	110.2	52.1	44.7	41.7	41.7	56.6	41.7	22.3	16.4	14.9
80°	77.4	23.8	20.8	17.9	16.4	13.4	6.0	3.0	1.5	1.5
82.5°	46.2	10.4	10.4	7.4	4.5	0.0	0.0	0.0	0.0	0.0
85°	10.4	4.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	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

(END OF REPORT)