

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: P528903

Luminaire Tested: **GALN-SA4A-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528903
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-SA4A-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 12572 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

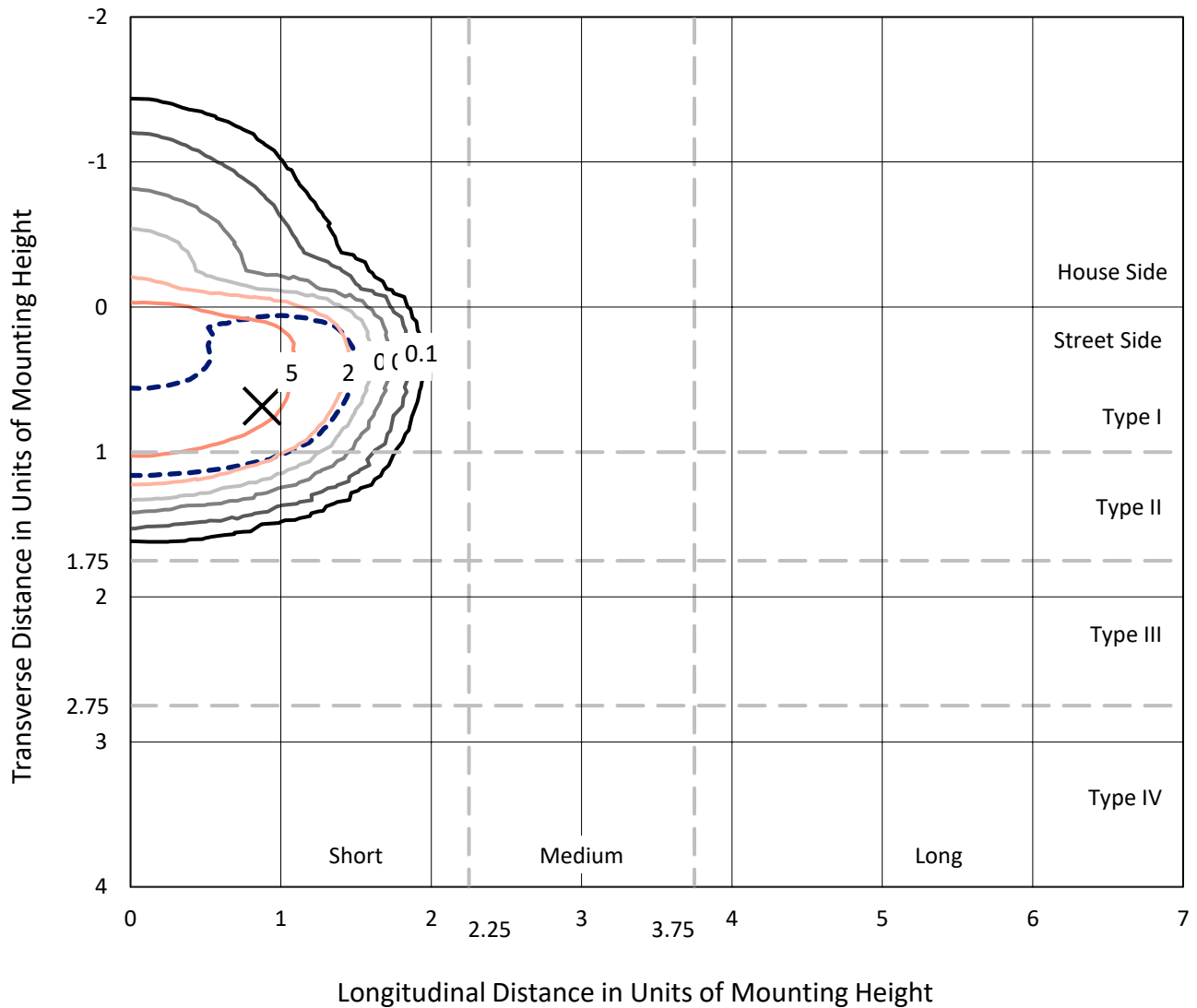
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

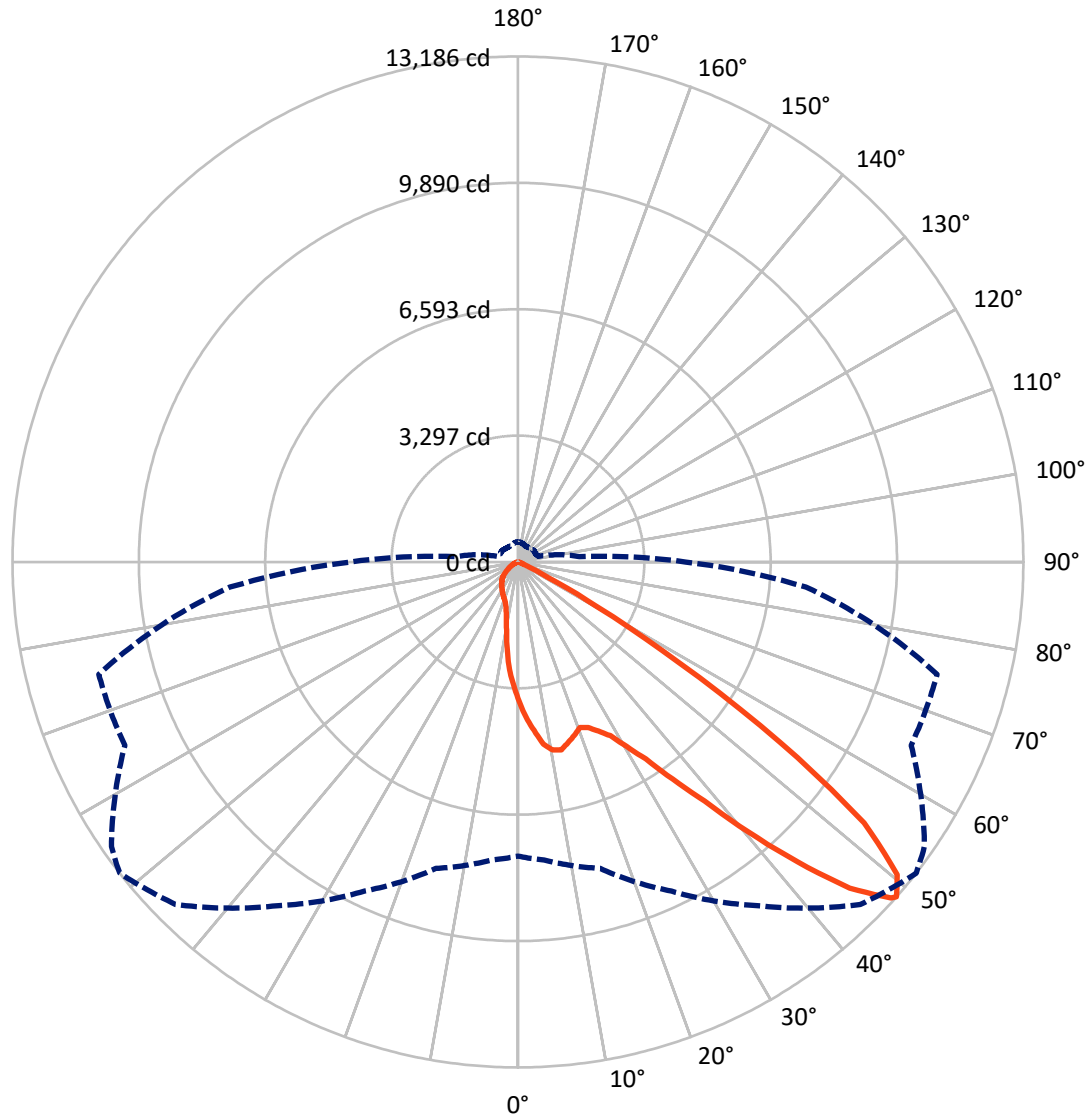
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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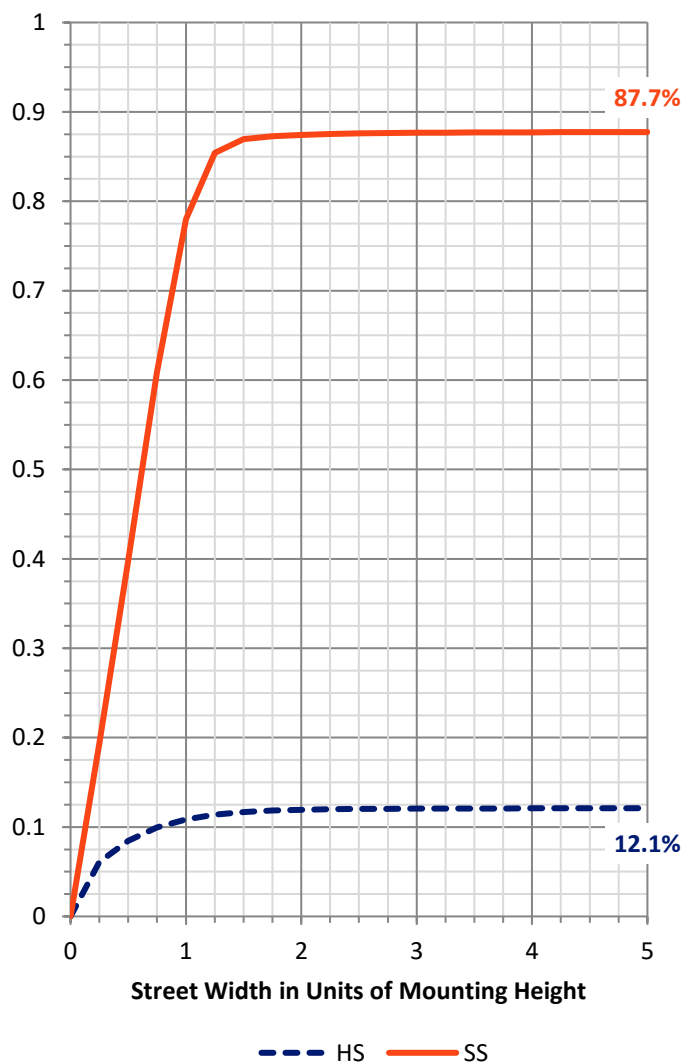
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1530.8	0.0	1530.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11041.3	0.0	11041.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	12572.0	0.0	12572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	2.6
10°-20°	868.4	6.9
20°-30°	1482.8	11.8
30°-40°	2730.5	21.7
40°-50°	4240.5	33.7
50°-60°	2552.0	20.3
60°-70°	295.2	2.3
70°-80°	57.1	0.5
80°-90°	13.2	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°	12572.0	100.0
0°-180°	12572.0	100.0

Coefficient of Utilization



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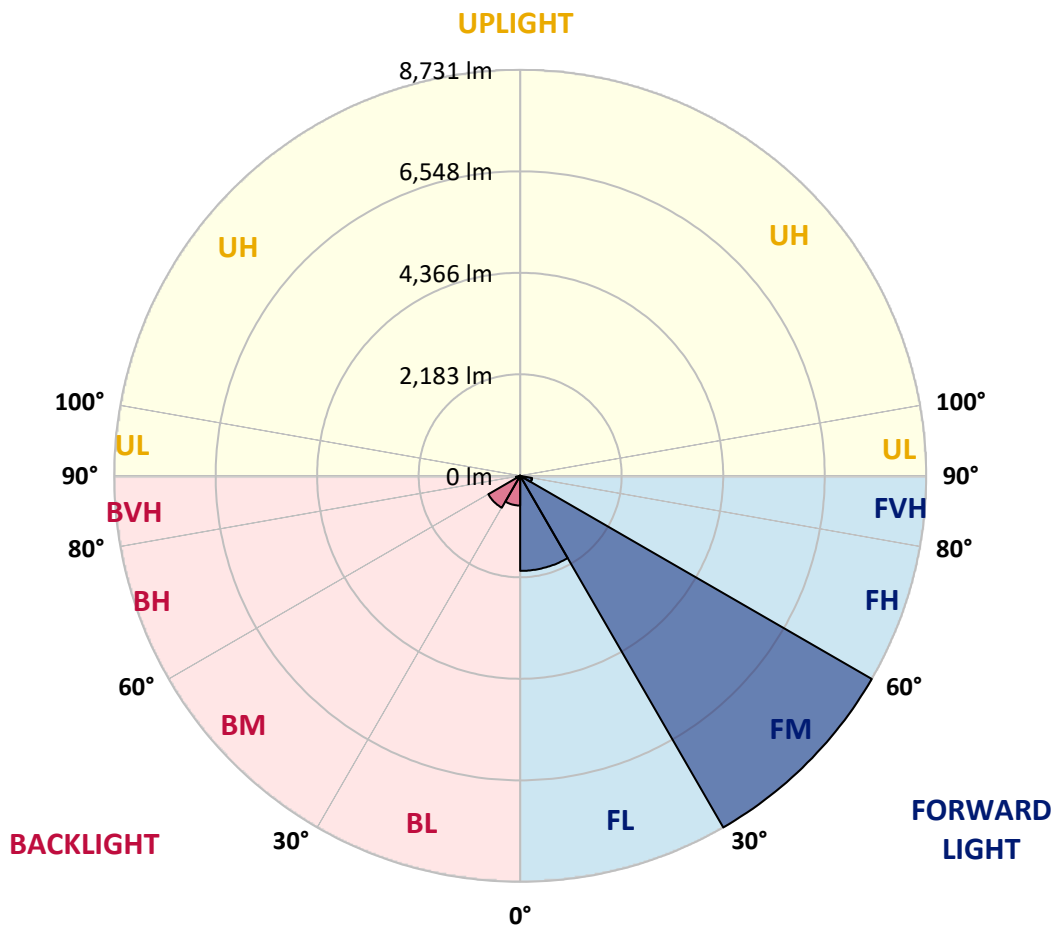
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2044.0	16.3			
FM (30°-60°)	8731.0	69.4			
FH (60°-80°)	259.9	2.1			G0/660
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	639.4	5.1	B2/1000		
BM (30°-60°)	792.0	6.3	B1/1000		
BH (60°-80°)	92.4	0.7	B0/110		G0/110
BVH (80°-90°)	6.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6
2.5°	4400.3	4299.5	4308.7	4242.7	4204.2	4141.9	4057.6	4041.1	3949.5	3824.9	3698.4
5°	4796.2	4772.4	4803.5	4708.2	4711.9	4609.2	4411.3	4415.0	4204.2	4000.8	3804.7
7.5°	4821.8	4766.9	4798.0	4882.3	4931.8	4913.5	4801.7	4704.5	4504.8	4206.1	3920.2
10°	4317.8	4422.3	4455.3	4594.6	4792.5	5001.4	4988.6	4994.1	4827.3	4437.0	4019.1
12.5°	4015.5	3945.8	4057.6	4141.9	4440.6	4845.7	5030.8	5071.1	5083.9	4660.6	4118.1
15°	3878.0	3878.0	3896.3	3920.2	4136.4	4510.3	4887.8	5005.1	5281.9	4953.8	4273.9
17.5°	3964.1	3960.5	3986.1	3936.6	4017.3	4305.0	4755.9	4889.7	5503.6	5241.5	4396.7
20°	4226.2	4239.0	4222.5	4079.6	4085.1	4301.4	4609.2	4820.0	5653.9	5490.8	4559.8
22.5°	4590.9	4598.3	4504.8	4349.0	4303.2	4409.5	4693.6	4854.8	5774.8	5789.5	4609.2
25°	5012.4	4983.1	4964.8	4744.9	4605.6	4697.2	4884.2	4977.6	5850.0	6046.1	4750.4
27.5°	5597.1	5538.4	5426.6	5230.5	5127.9	4997.8	5131.6	5285.5	6064.4	6405.3	4904.3
30°	6460.3	6409.0	6190.9	5938.0	5668.6	5540.3	5582.4	5666.7	6451.1	6821.3	5107.7
32.5°	7759.7	7651.5	7336.3	6854.3	6487.8	6134.1	6123.1	6212.9	6797.5	7396.8	5349.7
35°	9191.0	9158.0	8694.3	8197.7	7488.4	6942.3	6951.4	6999.1	7460.9	8151.9	5666.7
37.5°	10142.2	10323.6	10028.6	9495.2	8899.6	8118.9	7920.9	7937.4	8371.8	9046.2	6238.5
40°	10877.1	10723.1	10758.0	10633.3	10226.5	9695.0	9257.0	9170.8	9425.6	10035.9	6806.7
42.5°	10556.4	10563.7	10778.1	11073.2	11174.0	11135.5	10688.3	10525.2	10327.3	10845.9	7347.3
45°	9651.0	9839.8	10118.4	10899.1	11584.5	12227.8	12139.8	11868.6	10950.4	11487.4	7658.9
47.5°	8206.8	8199.5	8655.9	9671.2	11194.2	12700.6	13100.2	12909.6	11392.1	11415.9	7594.7
48°	7673.5	7805.5	8276.5	9471.4	10946.7	12631.0	13186.3	12946.2	11316.9	11320.6	7539.7
50°	5672.2	5648.4	6234.9	7701.0	9777.5	11868.6	12823.4	13010.4	11315.1	10838.6	7154.9
52.5°	2996.5	3099.1	3526.1	4842.0	6913.0	9713.3	11311.4	11602.8	10915.6	10050.5	6601.4
55°	1273.7	1150.9	1479.0	2186.4	3889.0	6489.6	8298.5	8947.3	9229.5	8894.1	5774.8
57.5°	454.5	496.7	571.8	822.9	1634.8	3551.8	4948.3	5452.3	6394.3	6526.3	3934.8
60°	291.4	296.9	320.7	377.5	614.0	1369.0	2347.7	2749.1	3176.1	3278.7	1836.4
62.5°	225.4	227.3	238.3	247.4	291.4	531.5	881.5	1044.6	1085.0	932.8	482.0
65°	188.8	190.6	194.3	194.3	207.1	249.2	307.9	339.1	329.9	326.2	273.1
67.5°	144.8	148.4	155.8	155.8	163.1	152.1	170.4	181.4	205.3	249.2	232.8
70°	113.6	115.5	121.0	124.6	124.6	110.0	122.8	133.8	150.3	185.1	183.3
72.5°	88.0	91.6	95.3	95.3	89.8	75.1	88.0	97.1	108.1	128.3	124.6
75°	67.8	67.8	69.6	56.8	44.0	38.5	53.1	64.1	80.6	84.3	69.6
77.5°	18.3	20.2	18.3	16.5	18.3	27.5	34.8	40.3	51.3	51.3	45.8
80°	0.0	1.8	5.5	11.0	18.3	25.7	31.2	34.8	40.3	44.0	42.2
82.5°	0.0	1.8	5.5	11.0	16.5	20.2	27.5	29.3	33.0	38.5	38.5
85°	0.0	1.8	3.7	7.3	11.0	12.8	12.8	11.0	11.0	9.2	7.3
87.5°	0.0	0.0	1.8	3.7	3.7	5.5	5.5	5.5	5.5	5.5	5.5
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°	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6
2.5°	3648.9	3592.1	3506.0	3370.3	3240.2	3155.9	3075.3	2985.5	2936.0	2932.3	2904.8
5°	3692.9	3564.6	3359.3	3126.6	2877.3	2662.9	2446.7	2305.5	2179.1	2109.4	2096.6
7.5°	3716.7	3549.9	3218.2	2827.9	2402.7	2052.6	1810.7	1632.9	1563.3	1512.0	1510.1
10°	3766.2	3524.3	3007.5	2432.0	1906.0	1552.3	1385.5	1304.9	1266.4	1251.7	1229.7
12.5°	3802.9	3476.6	2791.2	2025.1	1506.5	1286.6	1213.2	1194.9	1196.8	1204.1	1194.9
15°	3854.2	3434.5	2499.8	1662.3	1264.6	1158.3	1158.3	1161.9	1187.6	1191.3	1189.4
17.5°	3850.5	3352.0	2199.2	1369.0	1117.9	1103.3	1108.8	1143.6	1160.1	1165.6	1152.8
20°	3894.5	3275.0	1889.5	1169.3	1035.5	1057.5	1094.1	1103.3	1123.4	1127.1	1112.5
22.5°	3881.7	3082.6	1601.8	1011.7	973.2	1015.3	1052.0	1063.0	1057.5	1046.5	1044.6
25°	3857.8	2917.7	1337.9	907.2	927.3	973.2	1008.0	987.8	976.8	978.7	980.5
27.5°	3815.7	2708.7	1119.8	833.9	865.0	932.8	931.0	923.7	934.7	925.5	934.7
30°	3808.4	2499.8	940.2	767.9	819.2	868.7	872.4	885.2	898.0	881.5	898.0
32.5°	3819.4	2270.7	811.9	727.6	791.7	793.6	833.9	846.7	837.5	800.9	804.6
35°	3903.7	2094.8	718.4	705.6	747.7	749.6	788.1	771.6	731.2	709.3	722.1
37.5°	4081.4	1948.2	674.4	685.4	689.1	712.9	714.8	681.8	685.4	683.6	690.9
40°	4308.7	1836.4	643.3	667.1	663.4	679.9	614.0	632.3	648.8	654.3	657.9
42.5°	4464.5	1755.7	623.1	637.8	630.4	601.1	564.5	582.8	595.6	615.8	619.5
45°	4534.1	1691.6	599.3	586.5	586.5	533.3	518.7	522.3	551.6	573.6	570.0
47.5°	4420.5	1629.3	557.1	518.7	531.5	487.5	471.0	471.0	502.2	529.7	524.2
48°	4376.5	1603.6	559.0	504.0	513.2	480.2	463.7	460.0	494.8	520.5	520.5
50°	4158.4	1508.3	511.3	463.7	445.3	441.7	430.7	434.4	456.3	480.2	480.2
52.5°	3733.2	1303.1	432.5	397.7	364.7	386.7	392.2	384.9	395.9	417.9	416.0
55°	3115.6	1000.7	346.4	329.9	304.2	328.1	339.1	329.9	318.9	335.4	335.4
57.5°	1995.8	538.8	276.7	280.4	254.7	278.6	287.7	265.7	245.6	258.4	256.6
60°	899.9	322.6	227.3	221.8	205.3	232.8	247.4	221.8	194.3	203.4	212.6
62.5°	337.2	229.1	172.3	168.6	164.9	190.6	197.9	177.8	150.3	155.8	157.6
65°	247.4	201.6	137.5	124.6	132.0	150.3	146.6	126.5	108.1	108.1	111.8
67.5°	210.8	175.9	111.8	97.1	97.1	99.0	91.6	80.6	75.1	78.8	82.5
70°	164.9	139.3	88.0	75.1	67.8	60.5	53.1	51.3	45.8	51.3	49.5
72.5°	106.3	93.5	67.8	56.8	51.3	42.2	34.8	33.0	27.5	25.7	25.7
75°	56.8	56.8	53.1	45.8	40.3	33.0	27.5	22.0	14.7	11.0	11.0
77.5°	40.3	44.0	47.7	44.0	36.7	27.5	22.0	14.7	7.3	3.7	3.7
80°	38.5	44.0	47.7	42.2	36.7	27.5	20.2	11.0	5.5	1.8	1.8
82.5°	34.8	40.3	44.0	38.5	33.0	23.8	18.3	11.0	5.5	1.8	1.8
85°	7.3	9.2	11.0	11.0	12.8	16.5	12.8	9.2	3.7	1.8	1.8
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	3.7	3.7	1.8	1.8	1.8
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)