

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: P455226

Luminaire Tested: **GALN-SA6B-827-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19859 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

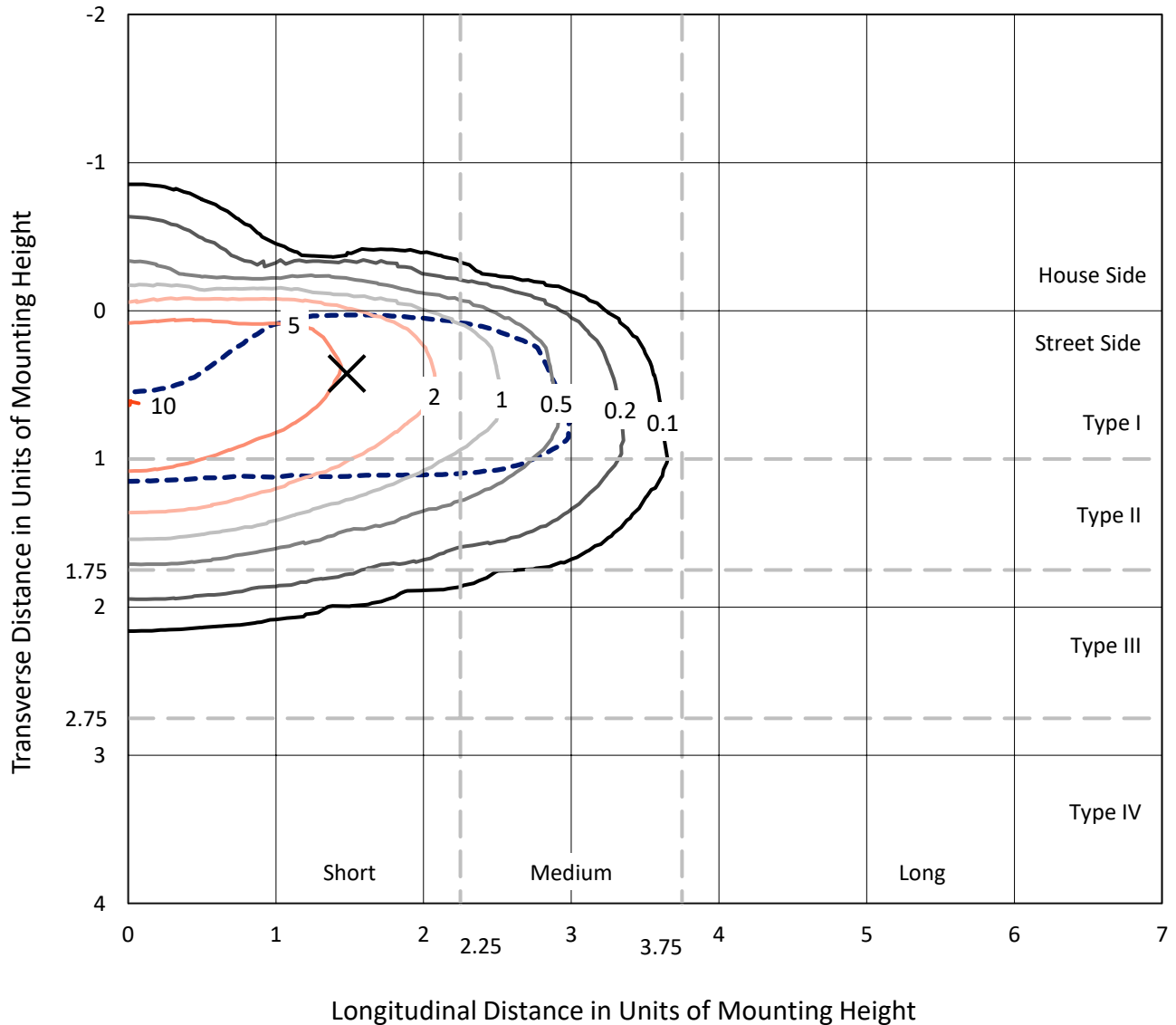
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

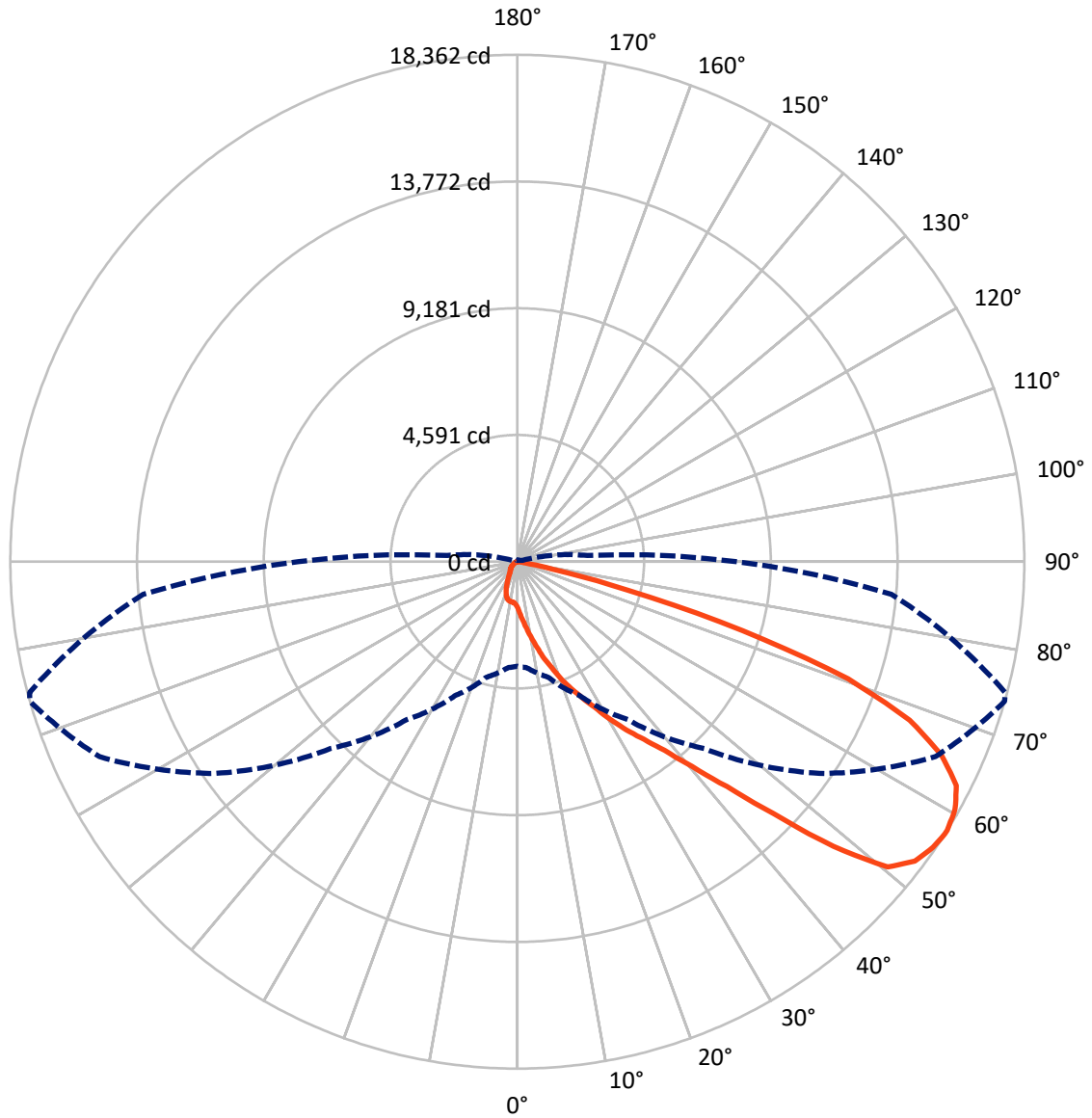
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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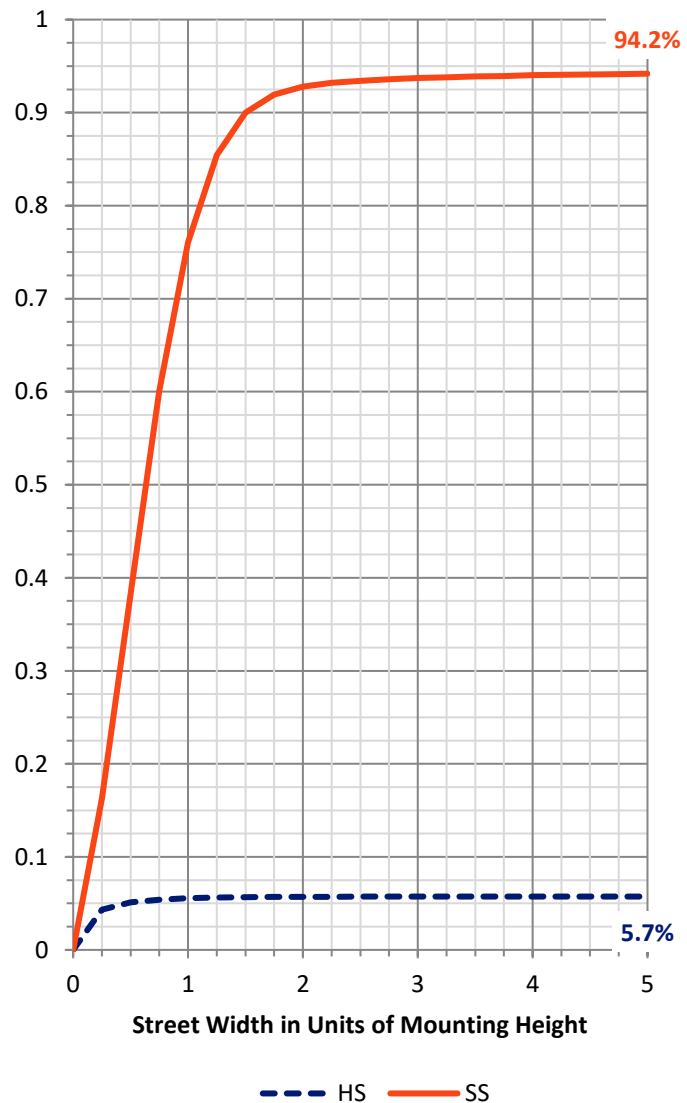
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1145.4	0.0	1145.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	18713.6	0.0	18713.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	19859.0	0.0	19859.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.7	1.0
10°-20°	791.3	4.0
20°-30°	1693.1	8.5
30°-40°	3111.9	15.7
40°-50°	4770.6	24.0
50°-60°	5046.7	25.4
60°-70°	3295.6	16.6
70°-80°	900.5	4.5
80°-90°	48.5	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°	19859.0	100.0
0°-180°	19859.0	100.0



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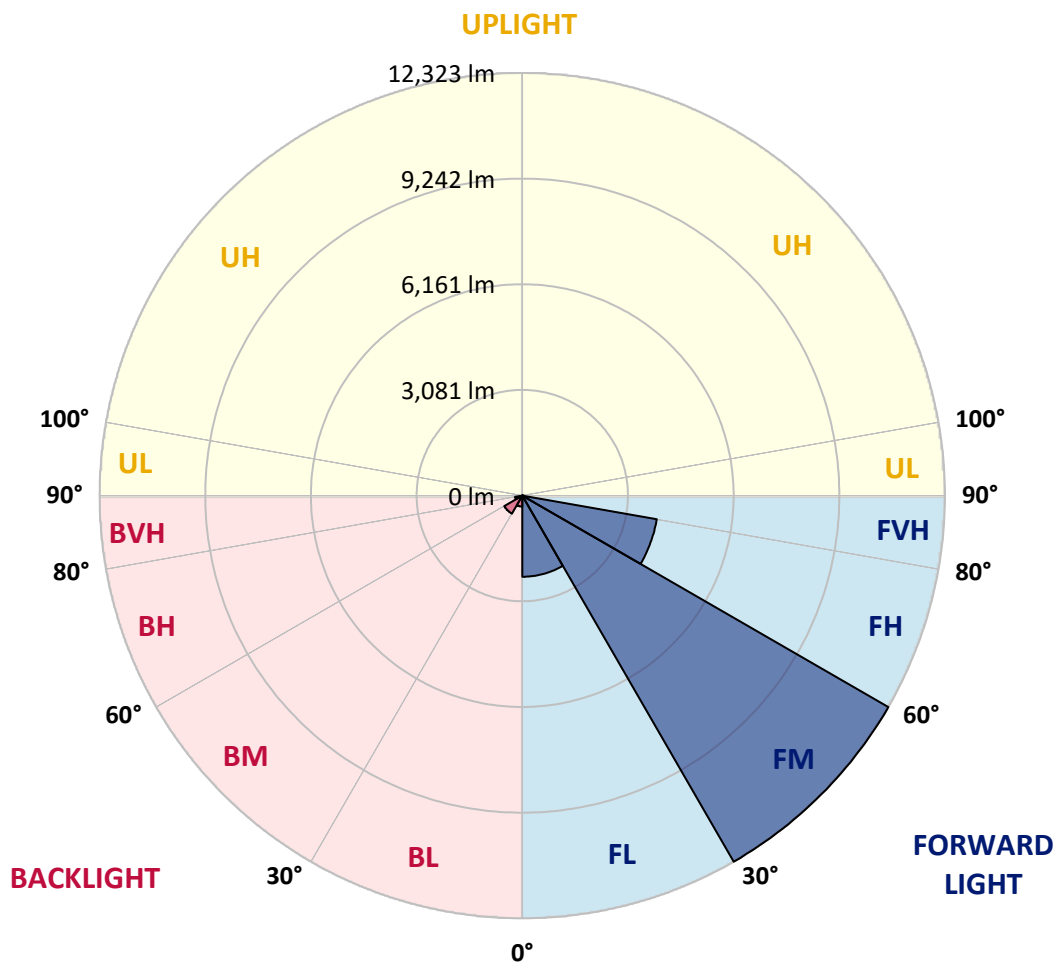
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2365.2	11.9			
FM	(30°-60°)	12322.9	62.1			
FH	(60°-80°)	3981.1	20.0			G2/5000
FVH	(80°-90°)	44.5	0.2			G1/100
BL	(0°-30°)	320.0	1.6	B1/500		
BM	(30°-60°)	606.4	3.1	B1/1000		
BH	(60°-80°)	215.0	1.1	B1/500		G1/500
BVH	(80°-90°)	4.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1663.2	1663.2	1663.2	1663.2	1663.2	1663.2	1663.2	1663.2	1663.2	1663.2	1663.2
2.5°	2433.7	2411.8	2367.9	2352.8	2288.4	2188.3	2100.6	1982.6	1889.4	1879.8	1767.4
5°	3259.1	3209.8	3189.2	3090.5	2935.6	2790.2	2540.7	2351.5	2133.5	2117.0	1890.8
7.5°	4054.4	3985.8	3965.3	3872.0	3691.0	3462.1	3138.5	2794.3	2448.8	2417.3	2056.7
10°	4630.3	4639.9	4602.8	4541.1	4394.4	4161.3	3762.3	3292.1	2799.8	2760.1	2243.1
12.5°	5043.0	5041.6	5048.5	5047.1	4968.9	4792.1	4372.5	3830.9	3186.5	3108.3	2457.0
15°	5311.7	5315.8	5336.4	5407.7	5415.9	5306.2	4956.6	4346.4	3634.8	3537.5	2688.8
17.5°	5583.2	5612.0	5644.9	5712.1	5772.4	5728.5	5481.7	4883.9	4040.7	3968.0	2936.9
20°	6031.5	6071.3	6052.1	6093.2	6124.8	6128.9	5938.3	5380.3	4532.9	4410.9	3220.8
22.5°	6748.6	6747.3	6697.9	6623.9	6562.2	6559.4	6386.7	5890.3	4979.9	4862.0	3505.9
25°	7654.9	7659.1	7563.1	7351.9	7198.4	7010.5	6811.7	6337.3	5458.4	5313.1	3806.2
27.5°	8694.3	8668.2	8522.9	8232.2	7927.8	7607.0	7320.4	6857.0	5965.7	5845.1	4150.4
30°	9628.0	9618.4	9448.4	9093.3	8692.9	8370.7	7955.2	7508.2	6622.5	6474.4	4535.7
32.5°	10497.3	10511.0	10275.2	9907.7	9521.0	9149.5	8710.7	8130.7	7266.9	7057.1	4955.2
35°	11176.0	11189.7	10945.6	10639.9	10242.2	9933.7	9515.6	8794.3	7903.1	7726.2	5437.9
37.5°	11538.0	11555.8	11414.6	11184.2	10936.0	10781.1	10391.7	9648.6	8676.4	8569.5	6008.2
40°	11606.5	11627.1	11565.4	11503.7	11490.0	11601.0	11487.2	10655.0	9748.6	9581.4	6858.3
42.5°	11400.8	11428.3	11455.7	11592.8	11872.5	12279.7	12676.0	12020.6	11129.4	10904.5	7897.6
45°	10860.6	10857.9	10966.2	11321.3	11947.9	12817.2	13918.2	13730.4	13010.5	12743.2	9366.1
47.5°	9936.5	9922.8	10157.2	10663.2	11639.4	12915.9	14931.5	15806.2	15411.4	15164.6	10944.3
50°	8528.4	8595.5	8964.4	9670.5	10873.0	12617.0	15244.1	17167.8	17381.7	17119.8	12219.4
52.5°	6878.9	6876.2	7454.8	8413.2	9737.7	11958.9	15026.1	17414.6	18022.0	17821.8	12847.4
55°	5091.0	5126.6	5728.5	6695.2	8263.7	10757.8	14314.5	17160.9	18266.0	18124.8	13261.4
57°	3787.0	3850.1	4332.7	5355.6	6980.4	9569.0	13367.0	16707.1	18362.0	18285.2	13605.6
57.5°	3534.7	3537.5	4007.8	4937.4	6604.7	9112.4	13095.5	16517.9	18359.3	18316.8	13661.8
60°	2176.0	2244.5	2569.5	3337.3	4834.6	7112.0	11276.1	15430.6	18216.7	18278.4	13901.8
62.5°	1302.6	1331.4	1542.5	2011.4	3116.5	5191.1	9227.6	14038.9	17845.1	18032.9	13885.3
65°	837.8	844.6	940.6	1217.6	1948.4	3508.7	7110.6	12200.2	16883.9	17229.5	13342.3
67.5°	647.2	658.1	696.5	799.4	1129.8	2185.6	5029.3	10238.1	15329.1	15774.7	12026.1
70°	574.5	580.0	593.7	626.6	747.3	1234.0	3128.9	7997.7	12711.6	12837.8	9411.3
72.5°	468.9	484.0	526.5	537.5	592.3	770.6	1741.3	5367.9	8540.7	8572.2	5265.1
75°	363.3	366.1	429.2	460.7	499.1	530.6	777.4	2706.6	4102.4	3883.0	2029.3
77.5°	271.5	283.8	312.6	352.4	407.2	379.8	348.3	1020.1	1273.8	1250.5	589.6
80°	174.1	181.0	218.0	264.6	316.7	248.2	196.1	298.9	279.7	287.9	141.2
82.5°	87.8	89.1	139.9	215.3	201.6	124.8	123.4	122.0	104.2	102.8	65.8
85°	9.6	20.6	90.5	123.4	90.5	41.1	57.6	56.2	54.8	56.2	38.4
87.5°	1.4	1.4	15.1	17.8	12.3	13.7	16.5	17.8	21.9	20.6	16.5
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°	1663.2	1663.2	1663.2	1663.2	1663.2	1663.2	1663.2	1663.2	1663.2	1663.2	1663.2
2.5°	1712.5	1657.7	1556.2	1458.9	1386.2	1339.6	1279.3	1257.3	1225.8	1221.7	1206.6
5°	1786.6	1682.4	1505.5	1365.6	1253.2	1168.2	1094.2	1032.5	983.1	972.1	977.6
7.5°	1892.1	1737.2	1490.4	1299.8	1143.5	998.2	880.3	807.6	755.5	736.3	739.0
10°	2011.4	1809.9	1487.7	1229.9	991.3	813.1	684.2	619.7	589.6	578.6	566.3
12.5°	2152.7	1893.5	1480.8	1121.6	824.0	648.5	556.7	518.3	489.5	481.3	481.3
15°	2311.7	1982.6	1447.9	987.2	669.1	536.1	474.4	444.2	434.6	426.4	426.4
17.5°	2477.6	2070.4	1379.3	821.3	555.3	459.3	420.9	403.1	389.4	379.8	379.8
20°	2666.8	2156.8	1269.7	674.6	468.9	410.0	379.8	359.2	348.3	340.0	337.3
22.5°	2846.4	2226.7	1129.8	553.9	408.6	368.8	341.4	319.5	308.5	304.4	304.4
25°	3032.9	2269.2	961.2	458.0	372.9	334.6	304.4	286.6	277.0	274.2	272.9
27.5°	3213.9	2293.9	813.1	400.4	340.0	303.0	274.2	260.5	250.9	248.2	249.5
30°	3433.3	2298.0	669.1	359.2	311.2	272.9	246.8	234.5	229.0	226.2	224.9
32.5°	3655.4	2292.5	562.2	334.6	283.8	246.8	224.9	215.3	211.2	207.0	207.0
35°	3904.9	2263.7	478.5	309.9	257.8	224.9	205.7	197.4	192.0	187.8	186.5
37.5°	4214.8	2248.6	430.5	282.5	234.5	204.3	186.5	178.2	174.1	168.6	167.3
40°	4702.9	2315.8	415.4	257.8	211.2	185.1	168.6	159.0	153.6	148.1	146.7
42.5°	5311.7	2433.7	390.8	233.1	190.6	167.3	150.8	139.9	130.3	123.4	120.7
45°	6100.1	2588.7	352.4	207.0	172.8	148.1	133.0	119.3	106.9	101.5	100.1
47.5°	6926.9	2738.1	318.1	186.5	153.6	131.6	115.2	100.1	89.1	85.0	83.6
50°	7434.2	2768.3	296.2	163.2	134.4	113.8	97.3	83.6	76.8	72.7	72.7
52.5°	7665.9	2720.3	266.0	142.6	116.5	100.1	83.6	72.7	68.6	65.8	64.4
55°	7827.7	2646.3	226.2	123.4	100.1	85.0	74.0	65.8	60.3	57.6	56.2
57°	7922.3	2546.2	196.1	108.3	86.4	74.0	65.8	59.0	53.5	48.0	48.0
57.5°	7926.4	2507.8	187.8	106.9	82.3	71.3	64.4	57.6	50.7	45.2	43.9
60°	7804.4	2244.5	150.8	90.5	65.8	60.3	53.5	45.2	35.6	30.2	28.8
62.5°	7412.3	1910.0	124.8	76.8	53.5	46.6	38.4	34.3	24.7	17.8	17.8
65°	6818.6	1549.4	106.9	61.7	43.9	34.3	26.1	24.7	15.1	8.2	6.9
67.5°	5960.2	1206.6	90.5	50.7	37.0	24.7	17.8	16.5	8.2	2.7	0.0
70°	4541.1	822.7	75.4	41.1	27.4	17.8	12.3	9.6	5.5	1.4	0.0
72.5°	2617.5	452.5	63.1	31.5	20.6	13.7	9.6	5.5	5.5	0.0	0.0
75°	935.1	194.7	48.0	23.3	16.5	11.0	6.9	2.7	4.1	1.4	0.0
77.5°	297.5	104.2	31.5	17.8	13.7	8.2	5.5	2.7	2.7	1.4	0.0
80°	87.8	54.8	19.2	15.1	9.6	6.9	4.1	1.4	2.7	1.4	0.0
82.5°	48.0	27.4	15.1	11.0	9.6	5.5	4.1	1.4	1.4	1.4	0.0
85°	24.7	16.5	12.3	11.0	9.6	5.5	4.1	1.4	0.0	1.4	1.4
87.5°	13.7	12.3	12.3	11.0	9.6	6.9	4.1	1.4	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)