

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: P451759

Luminaire Tested: **GALN-SA2C-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9205 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 108
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

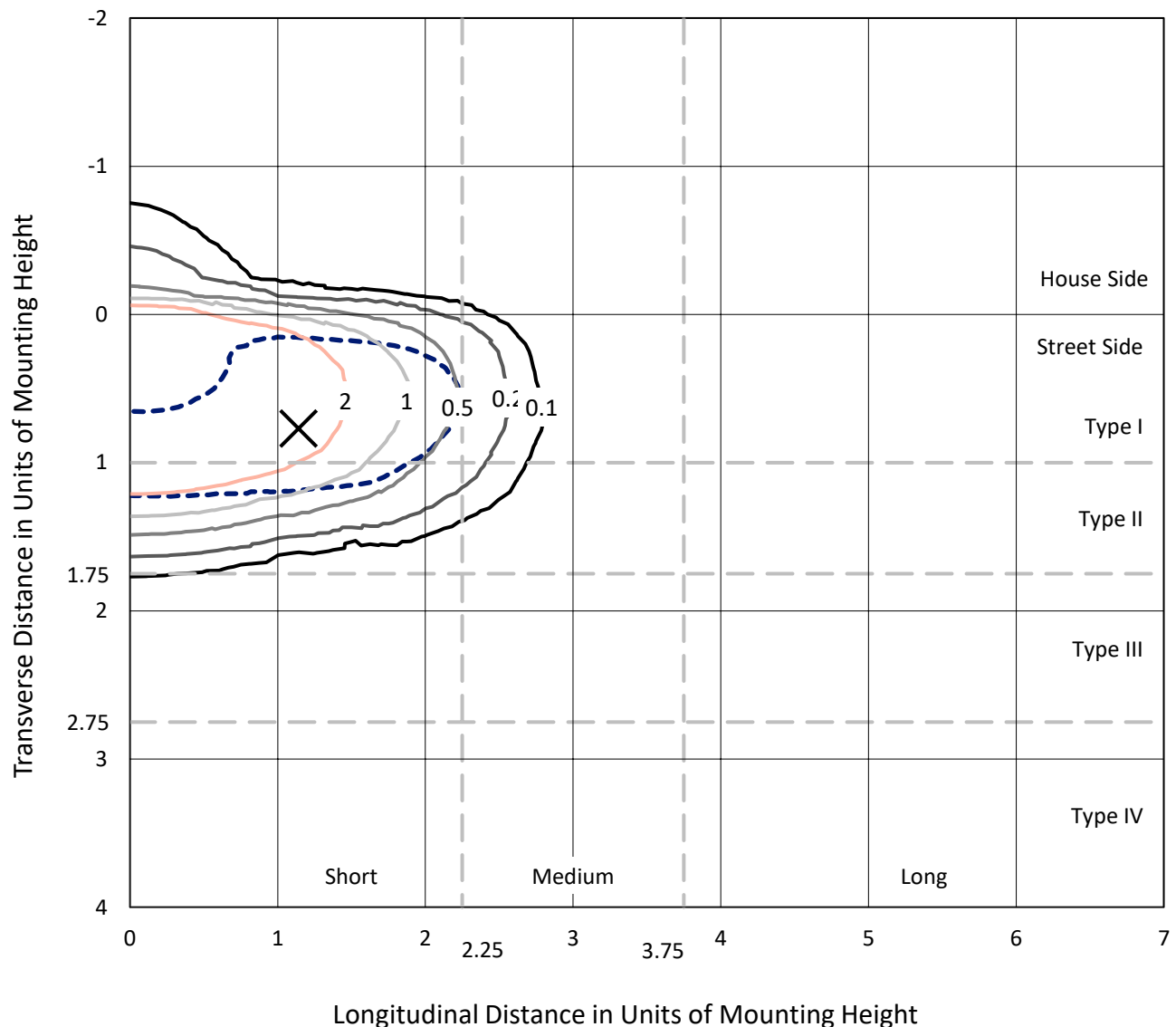


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

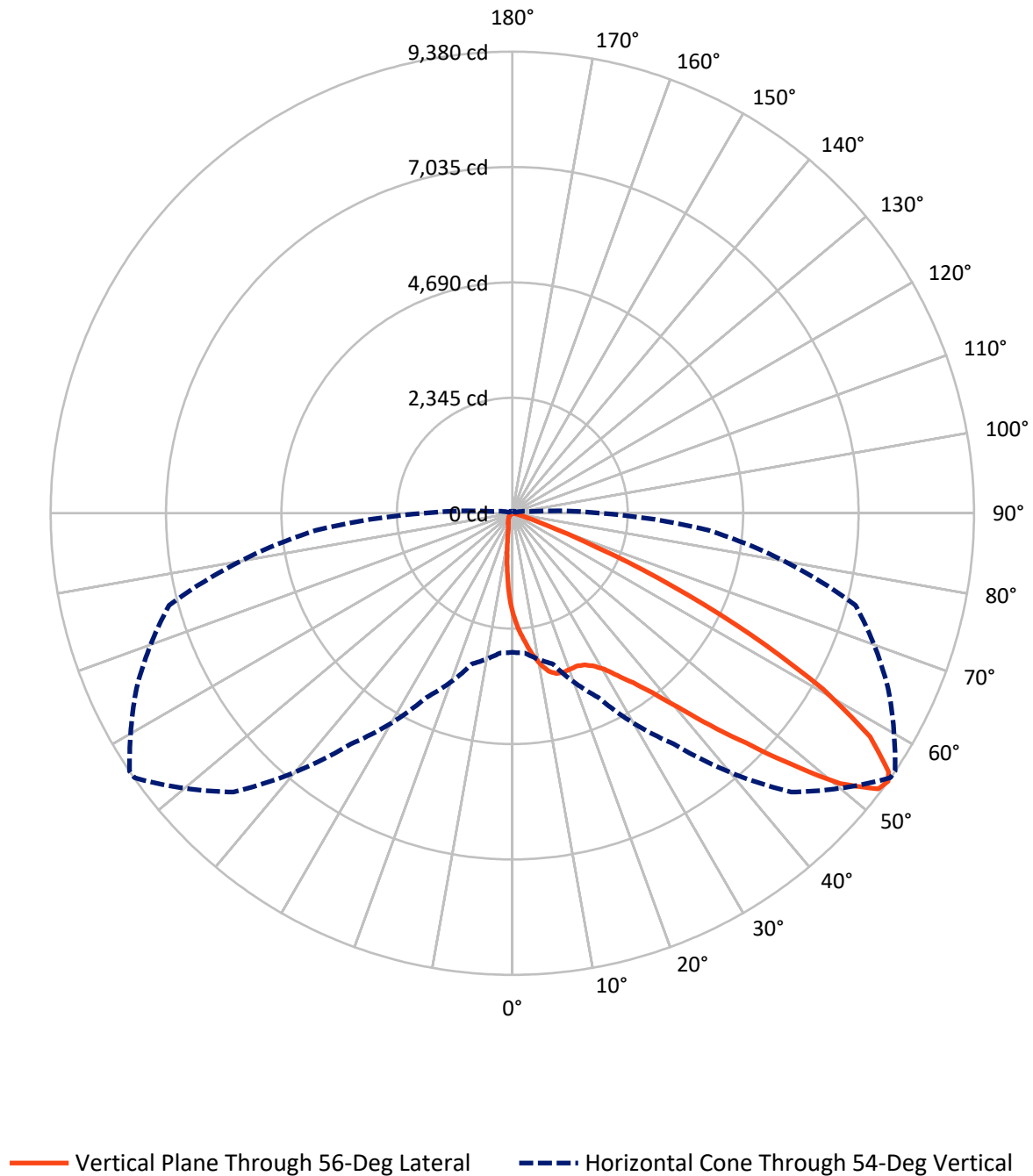


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	435.3	0.0	435.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	8769.7	0.0	8769.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	9205.0	0.0	9205.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	2.0
10°-20°	488.5	5.3
20°-30°	846.1	9.2
30°-40°	1460.5	15.9
40°-50°	2485.8	27.0
50°-60°	2460.0	26.7
60°-70°	1122.8	12.2
70°-80°	144.2	1.6
80°-90°	16.2	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°	9205.0	100.0
0°-180°	9205.0	100.0

Coefficient of Utilization



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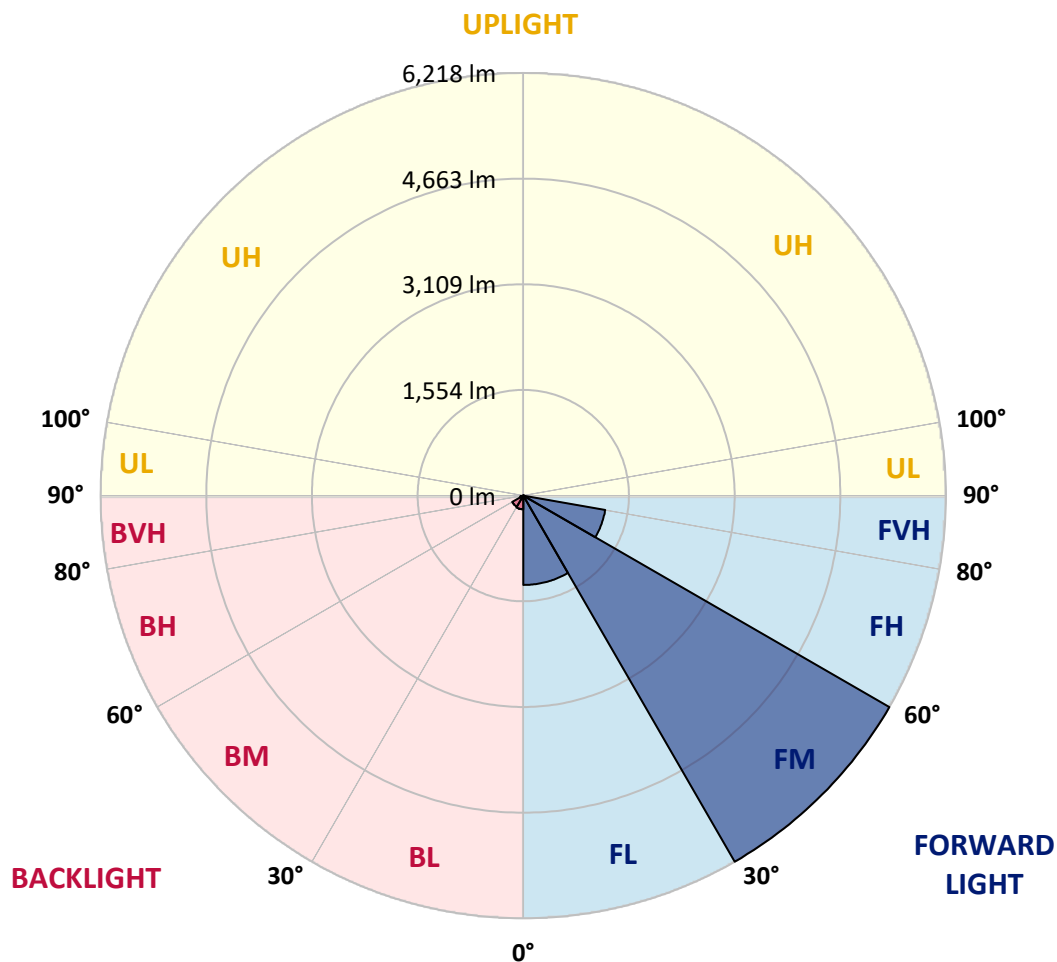
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1314.0	14.3			
FM	(30°-60°)	6217.7	67.5			
FH	(60°-80°)	1223.4	13.3			G1/1800
FVH	(80°-90°)	14.5	0.2			G1/100
BL	(0°-30°)	201.3	2.2	B1/500		
BM	(30°-60°)	188.6	2.0	B0/220		
BH	(60°-80°)	43.6	0.5	B0/110		G0/110
BVH	(80°-90°)	1.7	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2045.1	2045.1	2045.1	2045.1	2045.1	2045.1	2045.1	2045.1	2045.1	2045.1	2045.1
2.5°	2599.1	2581.0	2556.2	2537.0	2491.6	2426.4	2357.5	2357.5	2291.0	2198.5	2104.1
5°	2997.8	2986.0	2961.7	2912.1	2861.1	2769.8	2631.3	2607.1	2488.5	2320.8	2144.5
7.5°	3159.9	3165.4	3166.7	3153.6	3129.4	3039.4	2902.1	2885.4	2695.9	2471.1	2197.2
10°	3004.6	3031.9	3058.6	3112.7	3189.0	3210.8	3133.1	3115.8	2929.4	2623.3	2254.4
12.5°	2773.6	2788.5	2803.4	2888.5	3041.9	3217.6	3299.0	3298.3	3140.6	2774.8	2327.0
15°	2666.1	2679.2	2680.4	2718.3	2851.2	3107.1	3369.8	3379.1	3346.8	2961.7	2405.3
17.5°	2688.5	2699.0	2690.3	2699.7	2769.2	2985.3	3361.7	3392.7	3513.8	3141.2	2476.1
20°	2834.4	2854.9	2821.4	2795.3	2816.4	2953.0	3334.4	3377.8	3631.8	3316.4	2540.7
22.5°	3096.5	3107.7	3065.5	2994.0	2956.8	3020.7	3326.9	3369.8	3732.5	3459.8	2577.9
25°	3387.8	3384.0	3337.5	3257.4	3179.1	3157.4	3376.0	3414.5	3815.7	3589.0	2589.1
27.5°	3679.0	3690.2	3612.0	3512.6	3418.8	3362.3	3485.9	3514.5	3909.4	3736.2	2602.8
30°	4017.5	3999.5	3922.5	3808.8	3701.4	3622.5	3662.9	3671.0	4038.6	3931.2	2638.8
32.5°	4457.8	4408.1	4321.8	4123.1	4046.1	3912.6	3922.5	3932.4	4195.7	4124.3	2682.3
35°	5055.3	5052.8	4883.9	4616.2	4428.6	4262.8	4219.3	4227.4	4433.6	4411.3	2778.5
37.5°	5774.4	5784.4	5591.8	5322.3	4977.0	4713.7	4624.3	4625.5	4795.1	4807.5	2925.1
40°	6360.1	6386.2	6271.3	6089.3	5748.4	5336.6	5186.3	5172.6	5303.1	5287.5	3134.4
42.5°	6612.2	6636.4	6679.3	6742.6	6555.1	6215.4	5860.8	5879.4	5919.1	5810.5	3369.1
45°	6488.6	6527.1	6695.4	7086.7	7263.1	7148.8	6725.9	6660.7	6492.4	6378.7	3605.1
47.5°	5973.8	6067.6	6348.9	7000.4	7617.7	8004.0	7702.1	7615.8	7066.2	6793.6	3755.4
50°	5127.3	5132.9	5524.8	6357.6	7433.9	8543.7	8698.9	8634.3	7600.9	7026.5	3831.2
52.5°	3716.9	3839.3	4198.2	5162.7	6637.7	8461.7	9334.2	9307.5	8152.4	7145.7	3940.5
54°	2825.7	2849.3	3168.5	4125.6	5722.9	8011.4	9373.4	9379.6	8426.3	7217.7	4005.1
55°	2316.5	2260.0	2595.3	3514.5	5098.7	7613.3	9245.4	9275.2	8549.2	7255.0	4052.9
57.5°	1098.0	1098.6	1355.1	1853.8	3193.4	5911.7	8463.5	8569.1	8562.9	7319.0	4200.1
60°	555.8	559.6	616.1	855.8	1577.4	3929.9	6997.9	7249.4	7904.0	7328.3	4248.5
62.5°	388.8	384.4	375.1	411.7	663.9	1997.3	5209.9	5428.5	6715.3	6973.7	4094.5
65°	332.9	323.6	297.5	291.9	335.4	795.6	3244.9	3601.4	5127.3	6038.4	3656.1
67.5°	284.4	280.7	257.1	242.8	237.2	346.5	1674.3	1861.9	3504.5	4340.5	2769.2
70°	241.6	239.7	225.4	207.4	191.9	207.4	621.0	769.5	1953.2	2337.0	1306.7
72.5°	196.2	198.1	200.6	177.6	161.5	147.2	265.2	308.7	817.3	835.3	457.1
75°	172.0	170.2	170.2	154.6	134.8	109.3	145.9	157.1	250.3	232.3	106.2
77.5°	121.1	116.8	136.6	127.3	112.4	77.6	83.2	88.2	103.7	88.8	49.7
80°	83.8	83.8	87.6	114.3	101.2	56.5	50.9	54.7	61.5	52.8	28.6
82.5°	47.2	48.4	57.1	60.9	59.0	37.9	33.5	34.2	41.0	36.0	18.0
85°	5.6	9.3	32.9	32.3	24.2	16.8	18.6	19.3	25.5	22.4	10.6
87.5°	0.6	1.2	6.8	8.7	6.2	6.8	6.8	6.8	8.7	9.9	7.5
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°	2045.1	2045.1	2045.1	2045.1	2045.1	2045.1	2045.1	2045.1	2045.1	2045.1	2045.1
2.5°	2053.2	2006.0	1893.6	1763.1	1679.9	1544.5	1430.3	1347.7	1327.2	1287.4	1299.2
5°	2050.7	1952.6	1723.4	1481.2	1222.8	1030.3	886.8	773.8	724.1	691.2	668.2
7.5°	2051.9	1898.5	1530.9	1145.2	836.5	647.7	514.8	445.9	400.0	380.7	383.2
10°	2055.6	1837.7	1307.3	848.3	564.5	418.6	337.2	304.3	288.8	286.3	285.7
12.5°	2064.3	1771.2	1093.7	629.7	395.0	304.3	273.3	262.1	257.1	257.1	255.2
15°	2073.7	1697.9	916.0	468.3	304.3	261.5	247.2	241.6	238.5	238.5	237.9
17.5°	2073.7	1613.5	750.2	363.3	262.1	240.3	229.2	221.7	219.2	219.2	218.6
20°	2060.6	1515.3	603.0	292.5	237.9	220.5	209.3	201.2	198.1	196.9	196.2
22.5°	2015.3	1384.3	480.1	251.5	218.0	203.1	188.8	179.5	177.0	175.8	176.4
25°	1934.5	1236.5	380.1	221.1	200.0	182.0	169.5	162.7	160.2	160.2	160.8
27.5°	1851.3	1081.9	301.2	198.1	178.2	162.1	152.2	147.8	147.2	149.0	149.7
30°	1774.3	926.6	244.1	179.5	159.0	145.3	138.5	137.2	137.2	137.9	138.5
32.5°	1688.6	790.6	204.3	163.3	143.5	131.7	127.9	127.9	129.2	129.2	130.4
35°	1634.6	673.8	179.5	147.8	131.7	121.7	119.2	119.9	121.7	124.2	125.5
37.5°	1605.4	580.7	163.3	135.4	120.5	113.7	111.2	112.4	116.8	121.1	121.7
40°	1607.9	510.5	150.3	124.8	111.8	104.3	102.5	106.2	110.5	114.9	115.5
42.5°	1635.2	458.3	137.9	112.4	104.3	93.8	93.2	96.9	98.7	103.1	103.7
45°	1667.5	420.4	124.8	99.4	90.7	81.4	82.0	85.1	87.6	94.4	95.6
47.5°	1677.4	394.4	109.9	84.5	74.5	71.4	72.0	73.9	78.9	85.1	85.7
50°	1688.6	378.2	95.6	71.4	63.3	62.7	63.3	64.6	67.7	70.2	69.6
52.5°	1736.4	377.6	83.8	62.1	54.0	55.3	55.9	55.3	52.8	49.1	47.8
54°	1781.1	379.5	78.3	57.8	49.7	51.5	50.9	47.8	41.6	37.9	36.0
55°	1817.2	381.3	75.1	54.7	47.2	47.8	48.4	42.2	34.2	30.4	29.2
57.5°	1888.0	377.0	67.7	47.8	41.6	39.1	38.5	27.9	18.6	16.1	14.9
60°	1852.6	340.3	61.5	41.0	35.4	31.7	26.1	15.5	9.3	6.8	6.8
62.5°	1713.5	288.8	54.7	33.5	29.2	24.2	13.7	8.7	4.3	2.5	1.9
65°	1532.7	242.8	49.1	26.7	23.0	15.5	7.5	5.6	1.9	0.0	0.0
67.5°	1139.6	180.1	41.6	21.1	17.4	9.9	5.0	3.1	0.6	0.0	0.0
70°	527.9	109.9	35.4	16.1	12.4	7.5	3.7	1.9	0.0	0.0	0.0
72.5°	151.5	68.9	29.2	11.8	8.7	6.2	3.1	1.2	0.6	0.0	0.0
75°	52.8	55.3	21.7	8.7	6.8	4.3	2.5	1.2	0.6	0.0	0.0
77.5°	31.7	44.7	13.7	7.5	5.6	3.7	2.5	1.2	0.6	0.6	0.0
80°	18.0	29.8	8.7	6.2	5.0	3.1	1.9	1.2	0.6	0.6	0.0
82.5°	9.9	14.3	6.8	5.6	4.3	3.1	1.9	1.2	0.6	0.6	0.6
85°	8.1	7.5	5.6	5.0	3.7	2.5	1.9	0.6	0.0	0.0	0.0
87.5°	6.2	5.0	5.0	5.0	3.7	2.5	1.9	0.6	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)