

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: P457156

Luminaire Tested: **GALN-SA8C-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38857 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

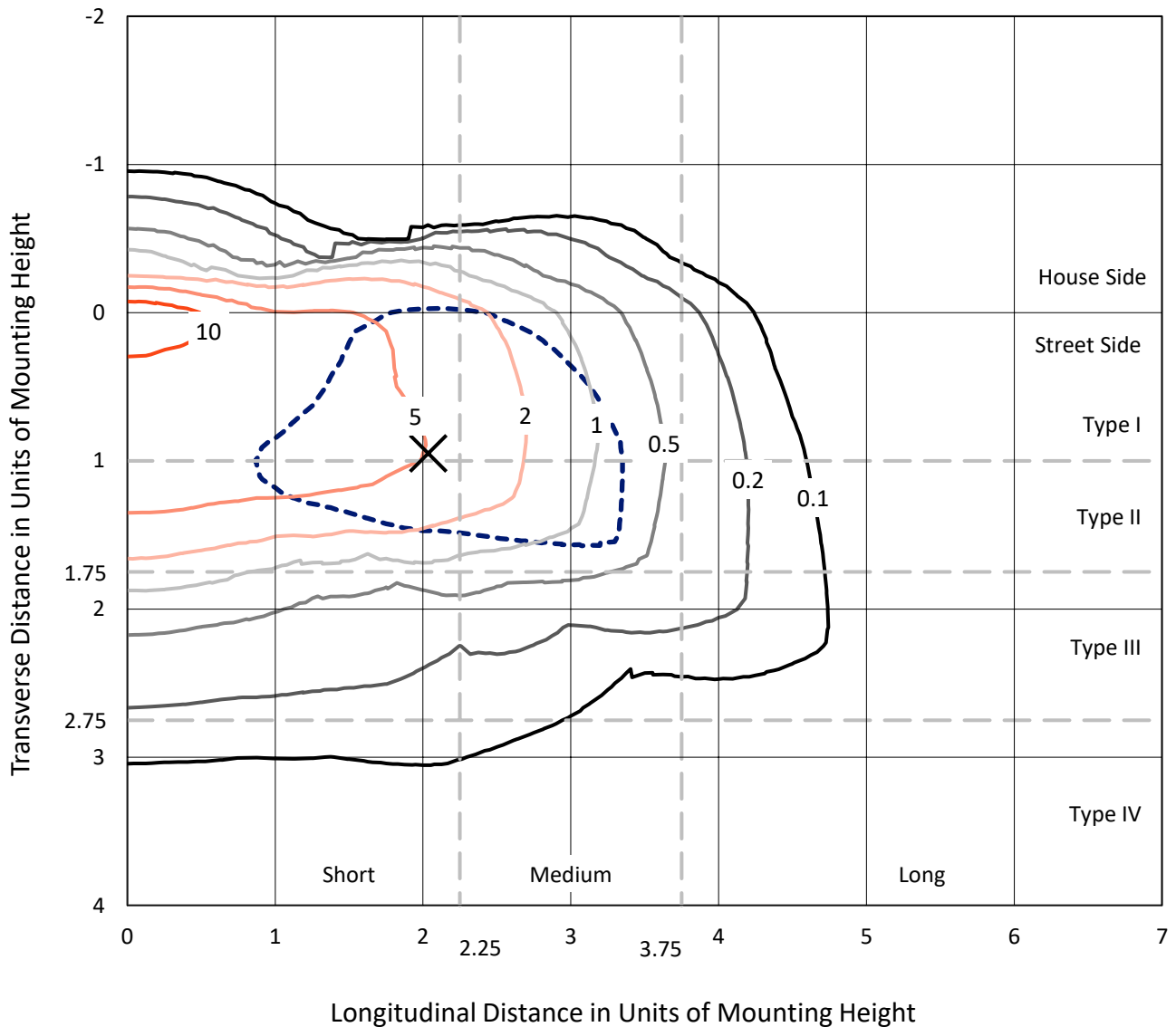
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

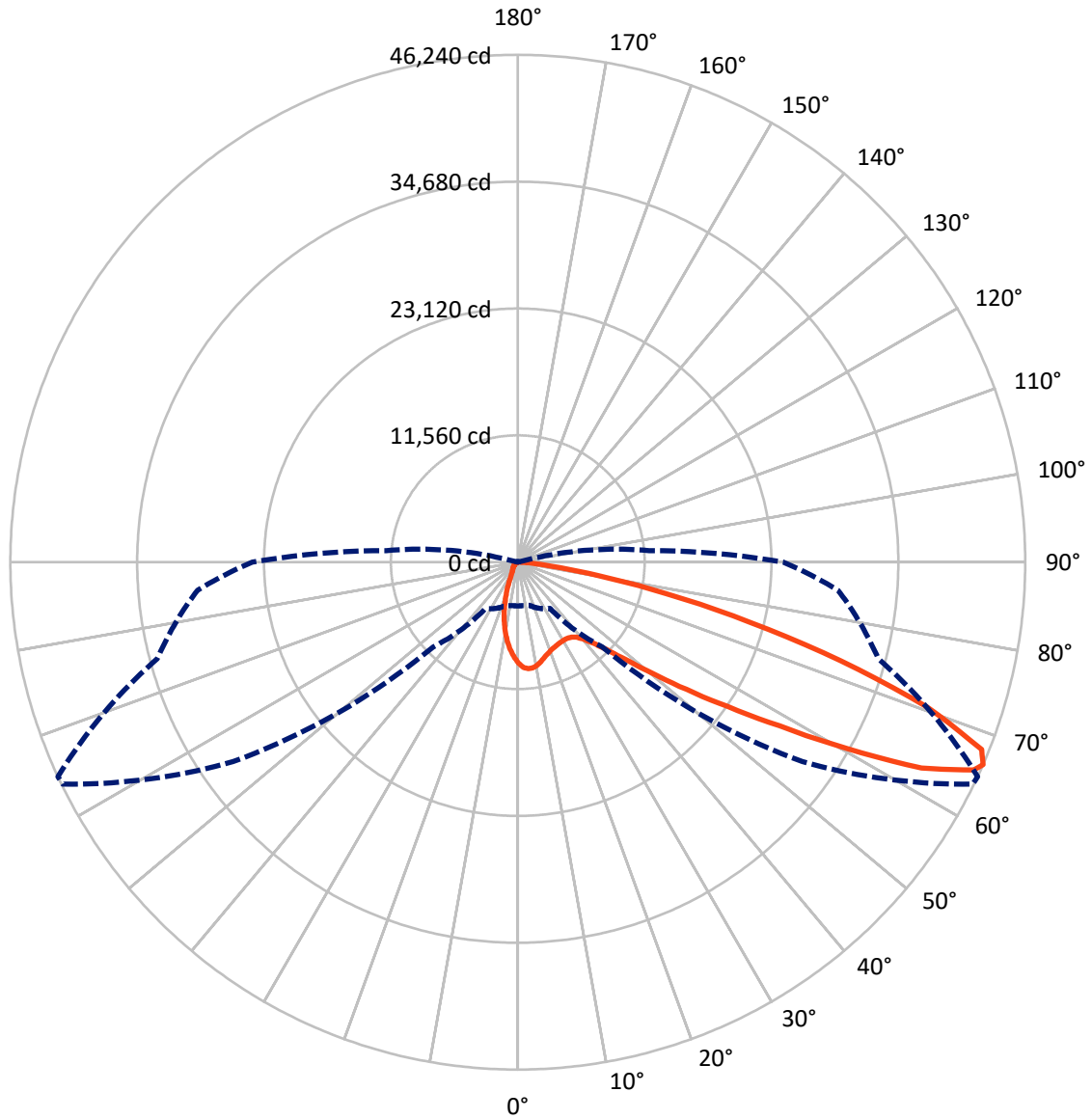
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4018.3	0.0	4018.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	34838.6	0.0	34838.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	38857.0	0.0	38857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.6	1.9
10°-20°	1642.0	4.2
20°-30°	2352.1	6.1
30°-40°	3435.5	8.8
40°-50°	5760.7	14.8
50°-60°	9613.8	24.7
60°-70°	10204.7	26.3
70°-80°	4621.7	11.9
80°-90°	472.9	1.2
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°	38857.0	100.0
0°-180°	38857.0	100.0

Coefficient of Utilization

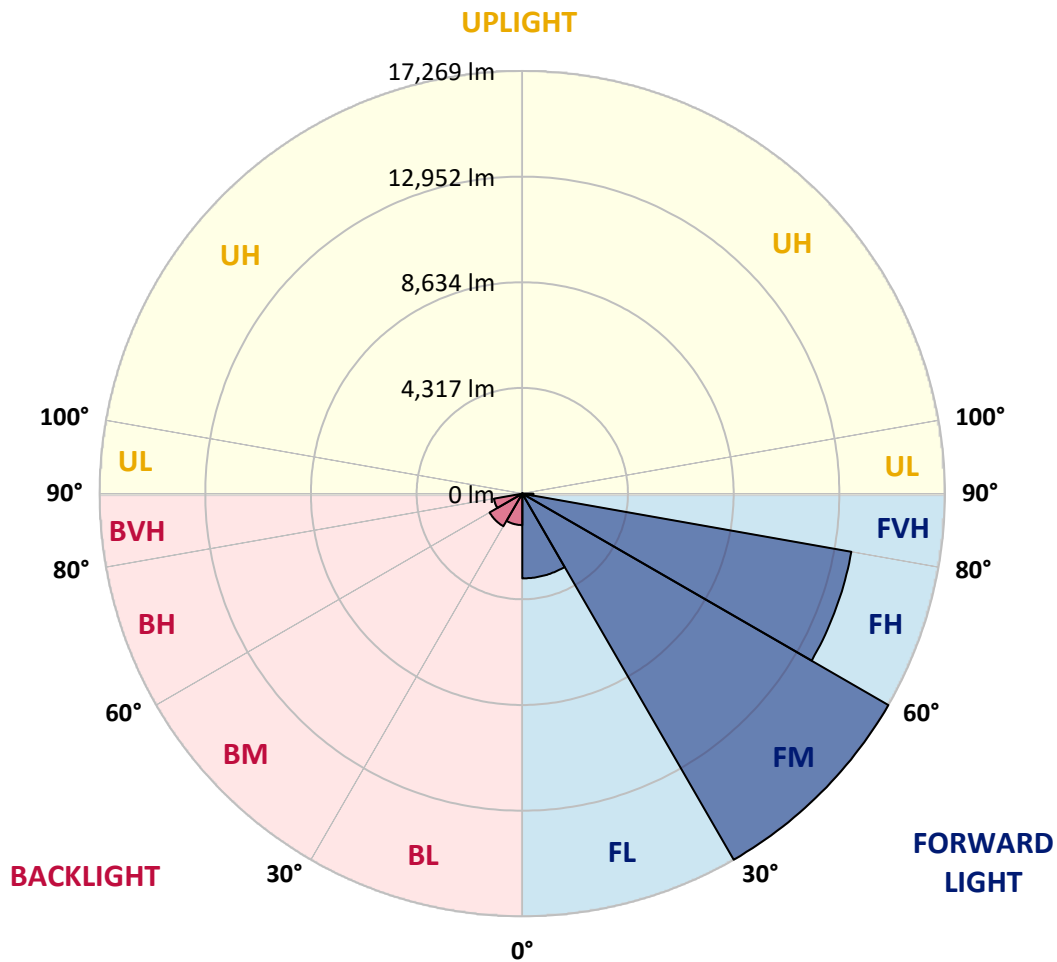


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3462.3	8.9			
FM (30°-60°)	17268.9	44.4			
FH (60°-80°)	13649.6	35.1			G5
FVH (80°-90°)	457.8	1.2			G3/500
BL (0°-30°)	1285.4	3.3	B3/2500		
BM (30°-60°)	1541.1	4.0	B2/2500		
BH (60°-80°)	1176.8	3.0	B3/2500		G3/2500
BVH (80°-90°)	15.1	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-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9214.4	9214.4	9214.4	9214.4	9214.4	9214.4	9214.4	9214.4	9214.4	9214.4	9214.4
2.5°	9710.4	9720.9	9734.1	9752.4	9765.6	9726.2	9671.1	9608.1	9595.0	9461.1	9298.4
5°	9190.8	9206.6	9322.0	9385.0	9526.7	9655.3	9736.7	9747.2	9741.9	9616.0	9356.1
7.5°	8450.7	8495.3	8608.2	8718.4	8983.5	9227.5	9516.2	9718.3	9731.4	9697.3	9374.5
10°	7849.7	7878.6	7936.3	8154.2	8374.6	8747.3	9151.4	9532.0	9563.5	9700.0	9358.8
12.5°	7379.9	7421.9	7492.8	7660.8	7925.8	8277.5	8736.8	9248.5	9314.2	9650.1	9314.2
15°	7051.9	7072.9	7143.7	7309.1	7566.3	7891.7	8356.2	8952.0	9009.7	9584.5	9306.3
17.5°	6897.0	6920.7	6970.5	7101.7	7314.3	7616.1	8070.2	8713.2	8786.6	9542.5	9335.2
20°	6939.0	6960.0	6962.7	7030.9	7175.2	7429.8	7860.2	8490.1	8584.6	9516.2	9382.4
22.5°	7177.9	7180.5	7149.0	7117.5	7167.4	7351.1	7731.6	8348.4	8445.5	9511.0	9437.5
25°	7534.8	7542.7	7490.2	7379.9	7280.2	7374.7	7702.7	8256.5	8343.1	9497.9	9471.6
27.5°	8028.2	8025.6	8009.8	7826.1	7542.7	7479.7	7726.4	8206.6	8280.1	9461.1	9484.7
30°	8718.4	8697.4	8663.3	8456.0	8022.9	7734.2	7826.1	8175.1	8243.4	9408.6	9450.6
32.5°	9398.1	9476.9	9471.6	9274.8	8734.2	8188.3	8033.4	8217.1	8267.0	9374.5	9400.8
35°	10190.7	10188.1	10390.2	10316.7	9684.2	8768.3	8387.7	8356.2	8395.6	9398.1	9377.1
37.5°	10925.6	10993.8	11308.7	11384.8	10807.5	9587.1	8889.0	8655.4	8668.5	9558.2	9434.9
40°	11841.5	11972.7	12442.5	12697.1	12187.9	10802.2	9629.1	9203.9	9206.6	9951.9	9652.7
42.5°	13022.5	13229.8	13668.1	14093.3	13820.3	12240.4	10739.2	10072.6	10067.4	10644.8	10151.4
45°	14458.1	14602.4	15101.1	15775.5	15602.3	14248.1	12355.9	11419.0	11350.7	11781.1	11035.8
47.5°	15696.8	15893.6	16400.2	17169.1	17956.5	16699.3	14287.5	13269.2	13224.6	13589.4	12552.7
50°	16237.4	16410.7	16943.4	18022.1	19930.0	19916.9	17163.9	15969.8	15893.6	16090.5	14899.0
52.5°	15644.3	15807.0	16345.0	17688.8	20859.1	23837.8	21331.5	19357.9	19266.1	19014.1	17701.9
55°	13613.0	13746.8	14542.1	16085.2	20502.2	26451.8	27073.8	23543.9	23187.0	22208.1	20874.8
57.5°	10839.0	10770.7	11264.1	13056.6	18407.9	27328.3	32968.3	28758.7	28120.9	24969.0	23559.6
60°	7511.2	7721.1	7920.6	9101.6	13841.3	25808.8	36634.6	35314.5	34474.7	27685.3	26131.6
62.5°	5521.8	5660.9	5792.2	6338.0	8702.7	20607.1	37282.9	42048.9	41303.5	30569.5	28585.5
65°	4367.1	4377.6	4430.1	4968.1	5734.4	13400.4	34167.7	45846.4	45654.9	33346.2	29580.1
66°	3978.7	3981.3	4062.6	4640.0	5146.5	10912.4	31671.8	46135.1	46240.1	34012.8	29288.8
67.5°	3477.4	3466.9	3585.0	4170.2	4687.3	7868.1	27205.0	44964.6	45586.6	34524.6	28241.7
70°	2695.3	2682.2	2826.5	3498.4	4317.2	5248.9	18082.4	38608.2	39610.8	33477.4	24987.3
72.5°	1795.1	1805.6	2052.3	2760.9	4120.4	4621.6	10878.3	29370.2	30787.4	27645.9	19657.1
75°	1047.2	1065.5	1346.3	2052.3	3577.1	4406.4	6156.9	20943.1	21848.5	19090.2	12245.7
77.5°	548.5	556.4	753.2	1354.2	2742.5	4091.5	4102.0	13379.4	13804.6	9277.4	4847.4
80°	291.3	283.4	404.2	816.2	1887.0	3592.9	3327.8	7083.4	7364.2	2755.7	1225.6
82.5°	110.2	120.7	215.2	535.4	1115.4	2579.8	2865.9	3131.0	3033.9	606.2	514.4
85°	21.0	26.2	91.9	317.6	561.6	1078.6	2112.7	1535.3	1422.4	228.3	296.6
87.5°	2.6	5.2	26.2	76.1	81.4	364.8	624.6	425.2	367.4	84.0	123.3
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°	9214.4	9214.4	9214.4	9214.4	9214.4	9214.4	9214.4	9214.4	9214.4	9214.4	9214.4
2.5°	9219.7	9148.8	8912.6	8679.0	8440.2	8225.0	8078.0	7839.2	7778.9	7692.2	7642.4
5°	9201.3	9036.0	8581.9	8085.9	7624.0	7125.4	6744.8	6377.4	6180.6	6080.8	6044.1
7.5°	9148.8	8886.4	8177.8	7400.9	6660.8	5915.5	5267.3	4773.9	4456.3	4238.5	4091.5
10°	9043.8	8681.7	7708.0	6639.8	5521.8	4537.7	3716.2	3091.6	2608.7	2456.5	2461.7
12.5°	8936.2	8453.3	7183.1	5794.8	4409.1	3167.7	2296.4	1803.0	1572.0	1495.9	1480.2
15°	8836.5	8235.5	6668.7	4975.9	3283.2	2052.3	1480.2	1307.0	1244.0	1230.9	1228.2
17.5°	8784.0	8033.4	6120.2	4039.0	2291.1	1393.6	1186.2	1139.0	1120.6	1107.5	1102.3
20°	8739.4	7857.6	5595.3	3162.5	1566.8	1141.6	1062.9	1018.3	986.8	973.7	965.8
22.5°	8707.9	7676.5	5052.1	2448.6	1199.4	1013.0	942.2	884.4	839.8	824.1	813.6
25°	8660.7	7477.0	4503.5	1789.9	1010.4	900.2	818.8	750.6	692.9	664.0	658.7
27.5°	8592.4	7251.3	3902.6	1325.3	902.8	800.5	700.7	616.7	559.0	527.5	530.1
30°	8482.2	7015.1	3301.6	1052.4	816.2	698.1	590.5	509.1	454.0	430.4	427.8
32.5°	8351.0	6729.1	2750.4	902.8	737.5	606.2	493.4	422.5	380.5	362.2	359.5
35°	8227.6	6440.4	2188.8	811.0	656.1	522.3	414.7	354.3	322.8	307.1	309.7
37.5°	8159.4	6183.2	1705.9	737.5	590.5	448.8	356.9	304.4	275.6	262.4	259.8
40°	8204.0	5973.2	1356.8	671.9	517.0	385.8	307.1	262.4	233.6	215.2	215.2
42.5°	8414.0	5881.4	1094.4	608.9	448.8	333.3	267.7	225.7	194.2	175.8	178.5
45°	9054.3	5978.5	915.9	551.1	385.8	288.7	231.0	186.3	157.5	144.3	141.7
47.5°	10117.2	6343.3	792.6	490.8	330.7	246.7	194.2	154.8	126.0	115.5	112.9
50°	11975.3	7096.5	700.7	430.4	280.8	210.0	160.1	123.3	99.7	89.2	89.2
52.5°	14531.6	8739.4	635.1	362.2	236.2	178.5	131.2	99.7	78.7	70.9	68.2
55°	17203.2	10471.5	601.0	304.4	196.8	147.0	105.0	78.7	60.4	52.5	49.9
57.5°	19772.6	11831.0	561.6	246.7	157.5	112.9	81.4	60.4	42.0	36.7	34.1
60°	22236.9	12930.6	477.6	196.8	123.3	81.4	60.4	42.0	28.9	23.6	23.6
62.5°	24441.5	13571.0	375.3	157.5	94.5	57.7	39.4	31.5	21.0	15.7	15.7
65°	24698.7	12739.1	283.4	120.7	68.2	36.7	23.6	23.6	15.7	10.5	10.5
66°	24181.6	12033.1	249.3	110.2	60.4	31.5	21.0	18.4	13.1	7.9	7.9
67.5°	23026.9	10828.5	215.2	94.5	49.9	23.6	15.7	15.7	10.5	5.2	5.2
70°	19895.9	8844.4	170.6	70.9	36.7	18.4	10.5	10.5	7.9	5.2	5.2
72.5°	15164.0	6603.1	139.1	52.5	26.2	13.1	7.9	7.9	7.9	5.2	5.2
75°	9146.2	3556.1	107.6	39.4	23.6	10.5	5.2	7.9	10.5	7.9	5.2
77.5°	3369.8	1209.9	84.0	31.5	18.4	10.5	5.2	5.2	10.5	7.9	7.9
80°	826.7	314.9	60.4	26.2	18.4	10.5	5.2	5.2	10.5	10.5	10.5
82.5°	383.2	133.8	42.0	23.6	18.4	10.5	5.2	5.2	7.9	10.5	10.5
85°	220.5	63.0	34.1	26.2	18.4	10.5	5.2	5.2	7.9	10.5	10.5
87.5°	89.2	31.5	31.5	26.2	21.0	13.1	5.2	5.2	5.2	7.9	7.9
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)