

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: P532767

Luminaire Tested: **GALN-SA8A-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16211 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

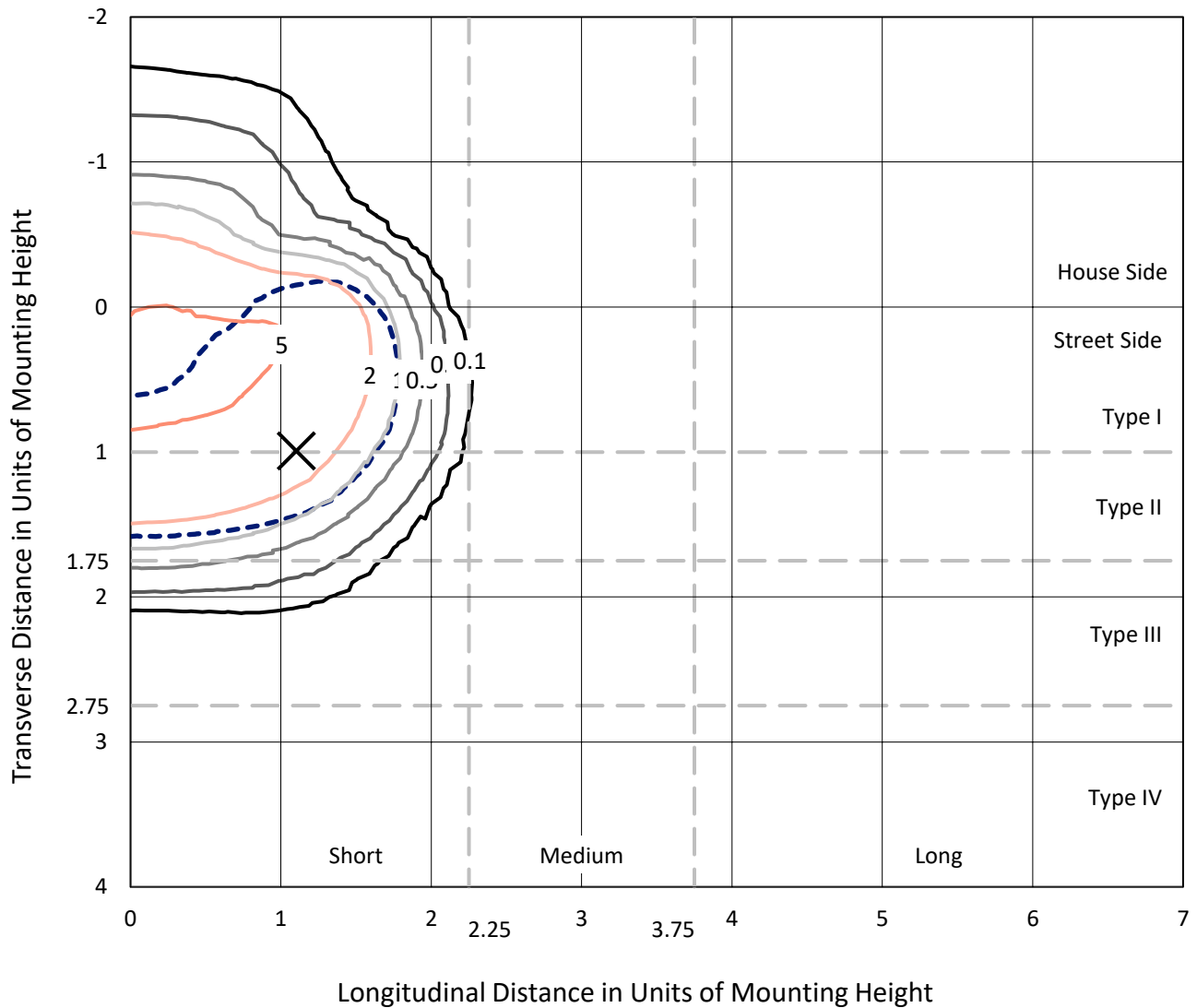
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

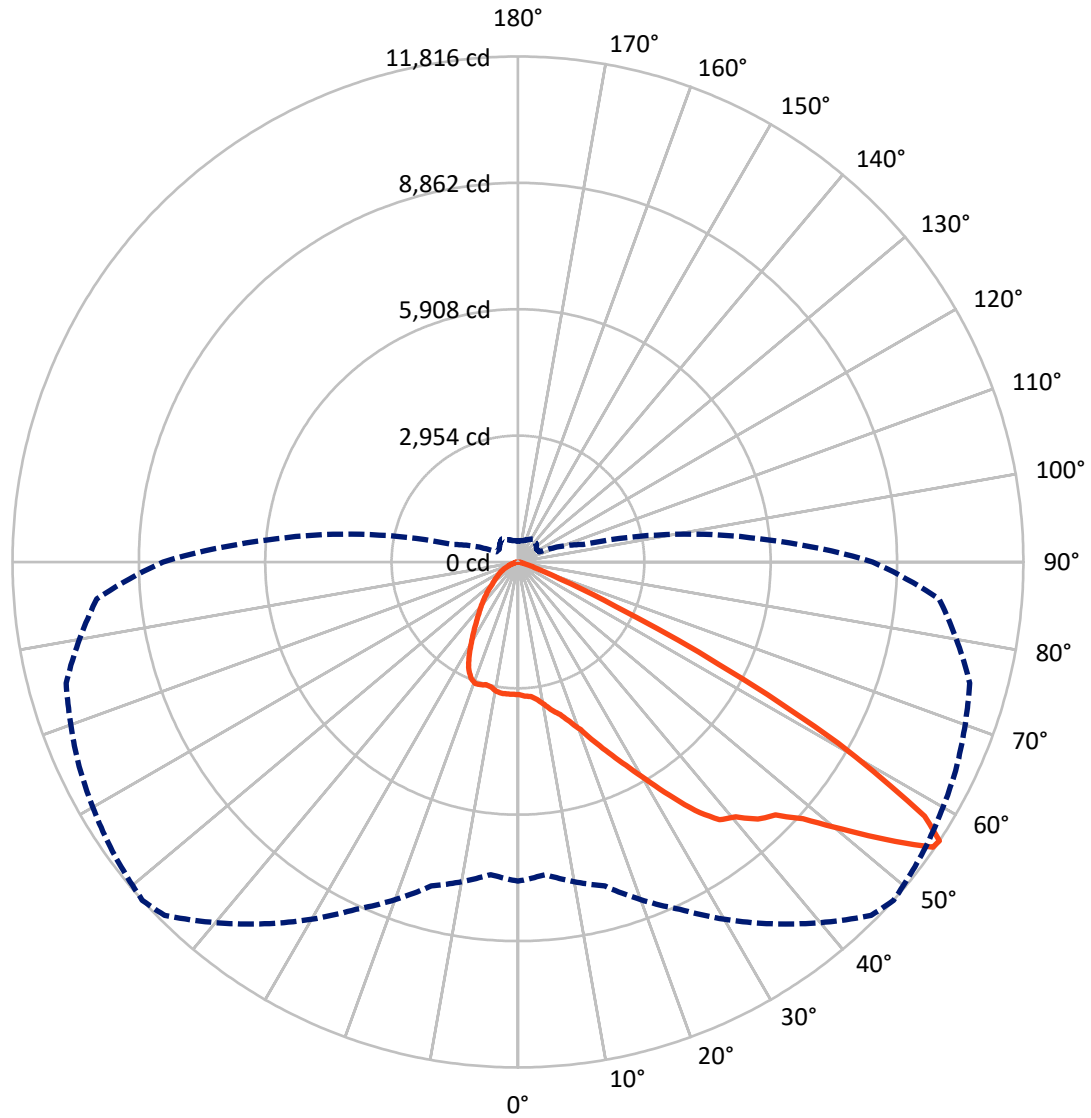
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3525.6	0.0	3525.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	12685.4	0.0	12685.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	16211.0	0.0	16211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.6	1.9
10°-20°	963.9	5.9
20°-30°	1748.3	10.8
30°-40°	2746.3	16.9
40°-50°	4006.3	24.7
50°-60°	4826.8	29.8
60°-70°	1413.3	8.7
70°-80°	179.3	1.1
80°-90°	25.2	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°	16211.0	100.0
0°-180°	16211.0	100.0

Coefficient of Utilization

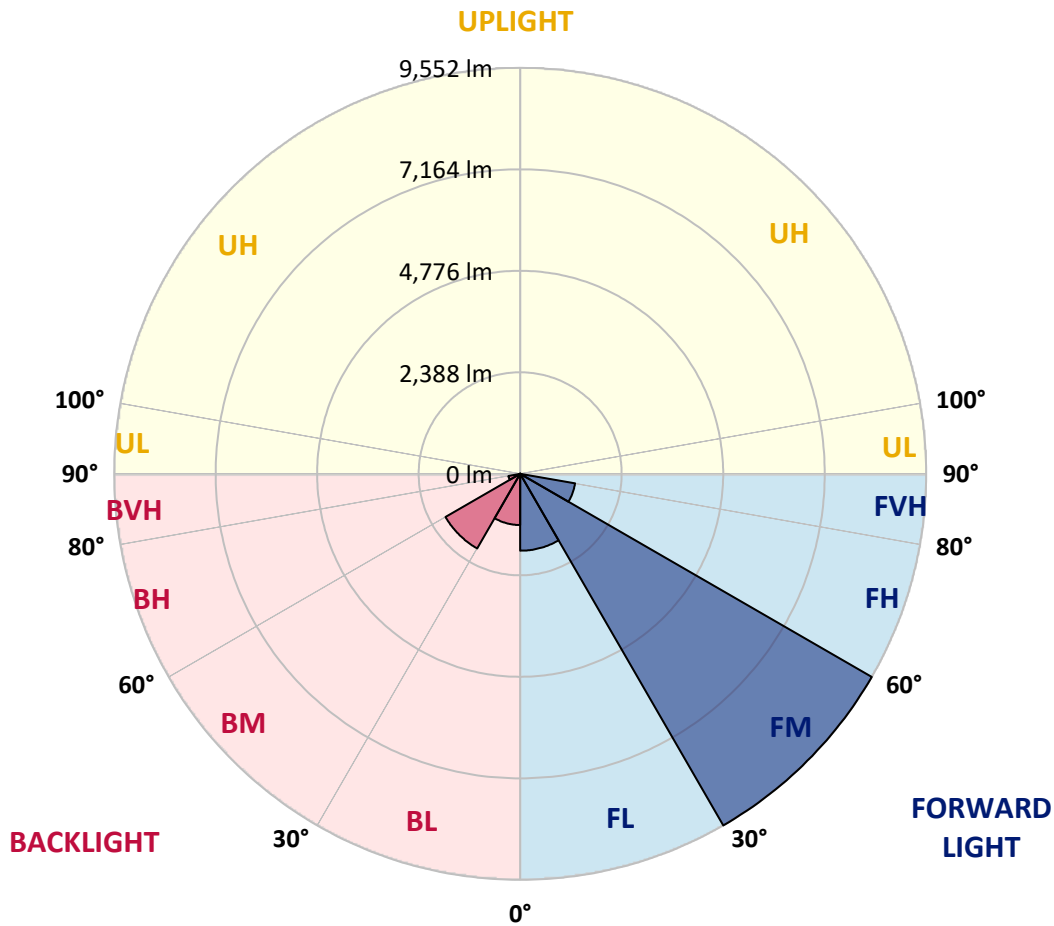


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1808.8	11.2			
FM (30°-60°)	9551.6	58.9			
FH (60°-80°)	1312.4	8.1			G1/1800
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	1205.0	7.4	B3/2500		
BM (30°-60°)	2027.9	12.5	B2/2500		
BH (60°-80°)	280.1	1.7	B1/500		G1/500
BVH (80°-90°)	12.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3
2.5°	3152.4	3137.6	3137.6	3114.0	3140.6	3128.8	3137.6	3108.1	3137.6	3093.4	3128.8
5°	3167.1	3170.1	3158.3	3173.1	3173.1	3190.8	3161.2	3187.8	3202.6	3170.1	3155.3
7.5°	3243.9	3249.8	3246.8	3235.0	3258.7	3255.7	3252.7	3232.1	3238.0	3226.2	3208.5
10°	3394.4	3391.5	3406.2	3376.7	3359.0	3379.7	3385.6	3353.1	3329.5	3320.6	3264.6
12.5°	3612.9	3577.4	3556.8	3527.3	3536.1	3506.6	3559.7	3503.6	3491.8	3438.7	3382.6
15°	3790.0	3784.0	3787.0	3739.8	3686.6	3698.4	3698.4	3668.9	3651.2	3586.3	3506.6
17.5°	4153.0	4029.0	4055.6	3996.6	3952.3	3949.3	3922.8	3928.7	3881.5	3745.7	3624.7
20°	4436.4	4383.2	4341.9	4241.6	4173.7	4194.3	4182.5	4153.0	4138.2	3961.1	3790.0
22.5°	4690.2	4707.9	4640.0	4613.5	4519.0	4527.9	4551.5	4524.9	4412.8	4229.8	3975.9
25°	5047.4	5026.7	4935.2	4902.7	4814.2	4846.7	4938.2	4917.5	4846.7	4516.1	4120.5
27.5°	5469.5	5398.6	5416.3	5268.7	5183.1	5274.6	5383.9	5487.2	5286.5	4852.6	4291.7
30°	5767.6	5693.8	5687.9	5682.0	5661.3	5767.6	5894.5	5989.0	5826.6	5189.0	4575.1
32.5°	5915.2	5932.9	5983.0	5965.3	6145.4	6363.8	6496.6	6632.4	6428.8	5738.1	4950.0
35°	6307.7	6195.6	6307.7	6319.5	6505.5	6968.9	7137.2	7461.8	7411.7	6514.3	5407.5
37.5°	6538.0	6529.1	6543.9	6656.0	6836.1	7408.7	7647.8	7898.7	7804.2	6980.7	5977.1
40°	6918.7	6942.3	6939.4	7025.0	7222.8	7739.3	7836.7	8040.4	8049.2	7627.1	6815.4
42.5°	7529.7	7435.3	7373.3	7461.8	7739.3	8025.6	8220.4	8179.1	8471.3	8412.3	7892.8
45°	8078.7	8134.8	8043.3	8190.9	8291.3	8444.7	8438.8	8527.4	8899.3	9179.7	8704.5
47.5°	8592.3	8627.7	8672.0	8772.4	8990.8	9014.4	8964.2	8925.9	9439.5	9728.7	9333.2
50°	8899.3	8931.8	9138.4	9318.4	9725.8	9778.9	9808.4	9711.0	10059.3	10091.8	9926.5
52.5°	8816.7	8852.1	9141.3	9734.6	10384.0	10871.0	10782.5	10617.2	10596.5	10723.4	10475.5
55°	8084.6	8052.2	8450.6	9374.5	10590.6	11759.5	11771.3	11597.1	11263.6	11178.0	10392.9
56°	7461.8	7334.9	7842.6	8958.3	10325.0	11682.7	11815.6	11629.6	11316.7	10933.0	9882.2
57.5°	6112.9	6233.9	6738.7	7662.6	9407.0	11130.8	11207.5	11163.2	10927.1	10283.6	8695.6
60°	3370.8	3583.3	4029.0	5159.5	6697.4	8542.2	8604.1	8964.2	9008.5	7875.1	5983.0
62.5°	1431.6	1407.9	1871.4	2703.7	3813.6	5156.6	5271.7	5640.7	5708.5	4539.7	3001.9
65°	581.5	613.9	847.1	1360.7	2016.0	2349.5	2511.9	2632.9	2857.2	1874.3	1106.9
67.5°	383.7	380.8	498.8	776.3	1086.2	1047.8	1047.8	1106.9	1024.2	764.5	478.2
70°	274.5	283.4	357.2	537.2	675.9	501.8	481.1	460.5	522.4	504.7	386.7
72.5°	180.1	191.9	239.1	321.7	351.2	274.5	274.5	330.6	430.9	407.3	315.8
75°	118.1	121.0	147.6	186.0	174.1	141.7	156.4	221.4	312.9	301.1	224.3
77.5°	79.7	82.6	100.4	121.0	97.4	79.7	85.6	112.2	153.5	153.5	118.1
80°	29.5	32.5	41.3	38.4	44.3	56.1	62.0	76.7	91.5	91.5	79.7
82.5°	0.0	3.0	8.9	20.7	32.5	44.3	50.2	59.0	67.9	76.7	73.8
85°	0.0	3.0	8.9	14.8	23.6	26.6	29.5	20.7	17.7	17.7	14.8
87.5°	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	5.9	3.0	3.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3	3096.3
2.5°	3096.3	3093.4	3093.4	3084.5	3102.2	3093.4	3099.3	3096.3	3057.9	3087.5	3066.8
5°	3128.8	3149.4	3117.0	3111.1	3087.5	3096.3	3096.3	3066.8	3093.4	3090.4	3084.5
7.5°	3211.4	3176.0	3140.6	3105.2	3099.3	3090.4	3057.9	3046.1	3066.8	3043.2	3078.6
10°	3246.8	3252.7	3199.6	3152.4	3108.1	3046.1	3001.9	2975.3	2942.8	2978.2	2998.9
12.5°	3409.2	3350.2	3258.7	3184.9	3034.3	2972.3	2928.1	2916.3	2972.3	2984.1	2963.5
15°	3465.3	3456.4	3338.3	3173.1	3016.6	2942.8	2951.7	2928.1	2934.0	2904.4	2910.4
17.5°	3580.4	3480.0	3341.3	3134.7	3013.7	2996.0	2942.8	2848.4	2795.2	2771.6	2792.3
20°	3707.3	3609.9	3409.2	3149.4	3040.2	2993.0	2818.9	2703.7	2594.5	2535.5	2538.4
22.5°	3819.5	3698.4	3379.7	3155.3	3063.8	2869.0	2659.5	2432.2	2296.4	2204.9	2207.9
25°	3955.2	3784.0	3391.5	3167.1	3001.9	2671.3	2370.2	2148.8	1986.5	1924.5	1945.2
27.5°	4032.0	3837.2	3456.4	3193.7	2839.5	2390.9	2066.2	1859.6	1765.1	1735.6	1732.6
30°	4262.2	3955.2	3536.1	3140.6	2568.0	2089.8	1788.7	1661.8	1570.3	1543.7	1549.6
32.5°	4604.6	4170.7	3639.4	3001.9	2290.5	1821.2	1608.7	1514.2	1428.6	1378.4	1372.5
35°	4890.9	4539.7	3748.6	2786.4	1968.8	1614.6	1481.7	1363.7	1233.8	1177.7	1163.0
37.5°	5437.0	4955.9	3725.0	2461.7	1661.8	1461.1	1346.0	1201.3	1089.2	1012.4	1003.6
40°	6163.1	5442.9	3609.9	2066.2	1434.5	1325.3	1201.3	1062.6	923.9	858.9	853.0
42.5°	7045.7	6039.1	3400.3	1664.7	1207.2	1189.5	1077.4	918.0	794.0	746.8	749.7
45°	7762.9	6549.8	3187.8	1337.1	1039.0	1056.7	959.3	808.8	723.2	684.8	684.8
47.5°	8400.5	6895.1	2957.6	1103.9	882.6	923.9	838.3	749.7	675.9	646.4	640.5
50°	9014.4	7246.4	2727.3	894.4	752.7	794.0	785.1	714.3	655.3	619.9	622.8
52.5°	9398.1	7302.4	2435.1	732.0	658.2	705.5	735.0	670.0	605.1	584.4	578.5
55°	8928.8	6579.3	1889.1	602.1	557.9	619.9	675.9	602.1	552.0	516.5	513.6
56°	8297.2	5882.7	1579.1	554.9	528.3	596.2	655.3	575.6	519.5	498.8	484.1
57.5°	7025.0	4814.2	1165.9	492.9	490.0	554.9	622.8	549.0	484.1	466.4	466.4
60°	4380.3	2709.6	705.5	413.2	425.0	492.9	560.8	490.0	430.9	430.9	439.8
62.5°	1995.3	1127.5	428.0	351.2	366.0	425.0	498.8	442.8	410.3	442.8	448.7
65°	678.9	487.0	309.9	280.4	289.3	351.2	428.0	448.7	445.7	466.4	478.2
67.5°	380.8	312.9	259.7	233.2	227.3	259.7	351.2	448.7	430.9	422.1	428.0
70°	321.7	265.7	230.2	206.6	197.8	209.6	271.6	339.4	304.0	295.2	289.3
72.5°	259.7	221.4	200.7	186.0	159.4	135.8	124.0	129.9	144.6	153.5	168.2
75°	183.0	168.2	168.2	150.5	115.1	85.6	67.9	56.1	38.4	26.6	29.5
77.5°	103.3	103.3	106.3	91.5	73.8	56.1	41.3	29.5	14.8	5.9	3.0
80°	70.8	76.7	82.6	73.8	62.0	50.2	35.4	20.7	8.9	0.0	0.0
82.5°	70.8	79.7	85.6	73.8	62.0	47.2	35.4	20.7	8.9	3.0	0.0
85°	14.8	17.7	20.7	23.6	35.4	35.4	26.6	17.7	8.9	3.0	0.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	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)