

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: P531753

Luminaire Tested: **GALN-SA7A-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531753
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-SA7A-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 19021 lumens
Efficiency: N/A
Efficacy: 88.5 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

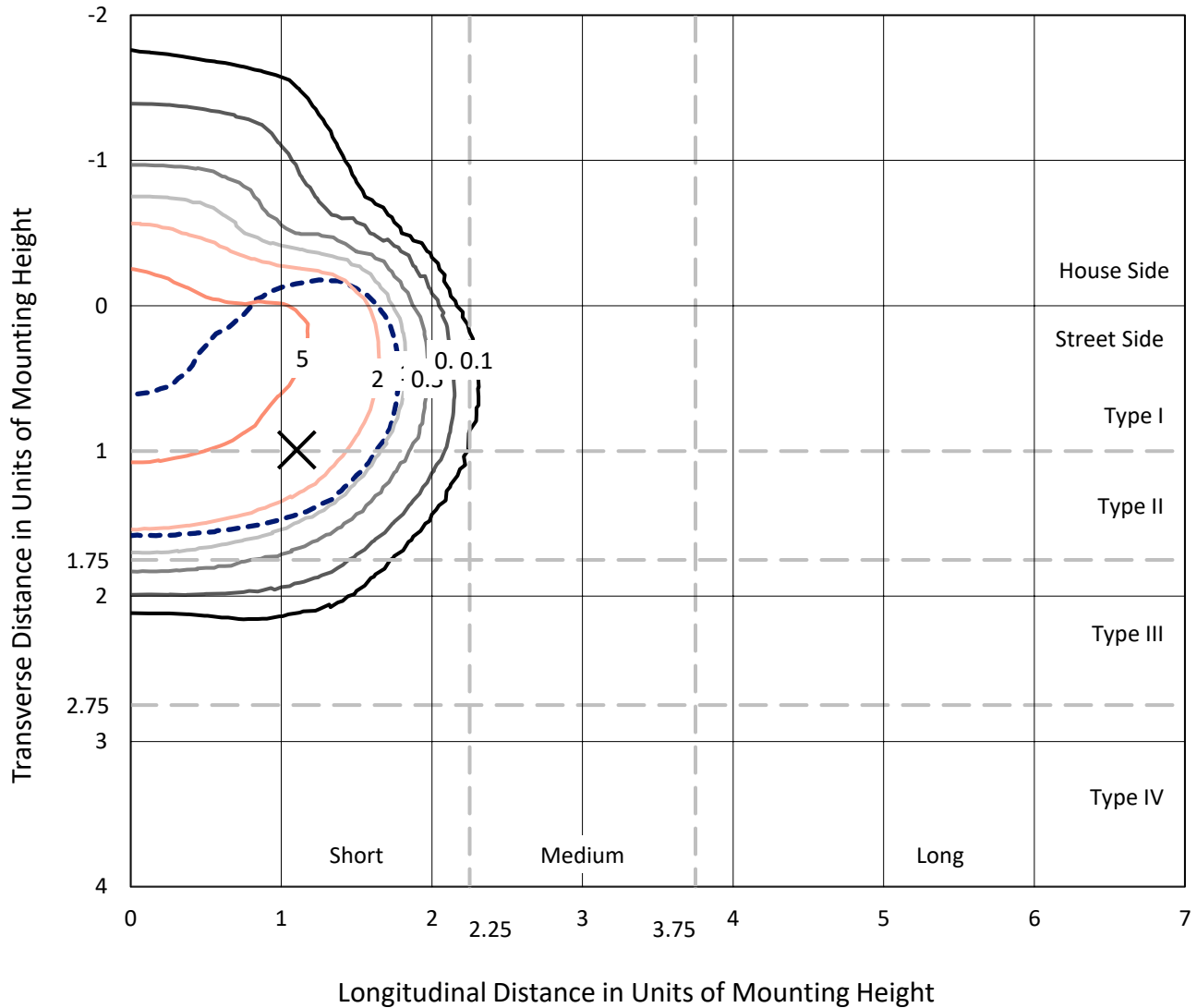
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

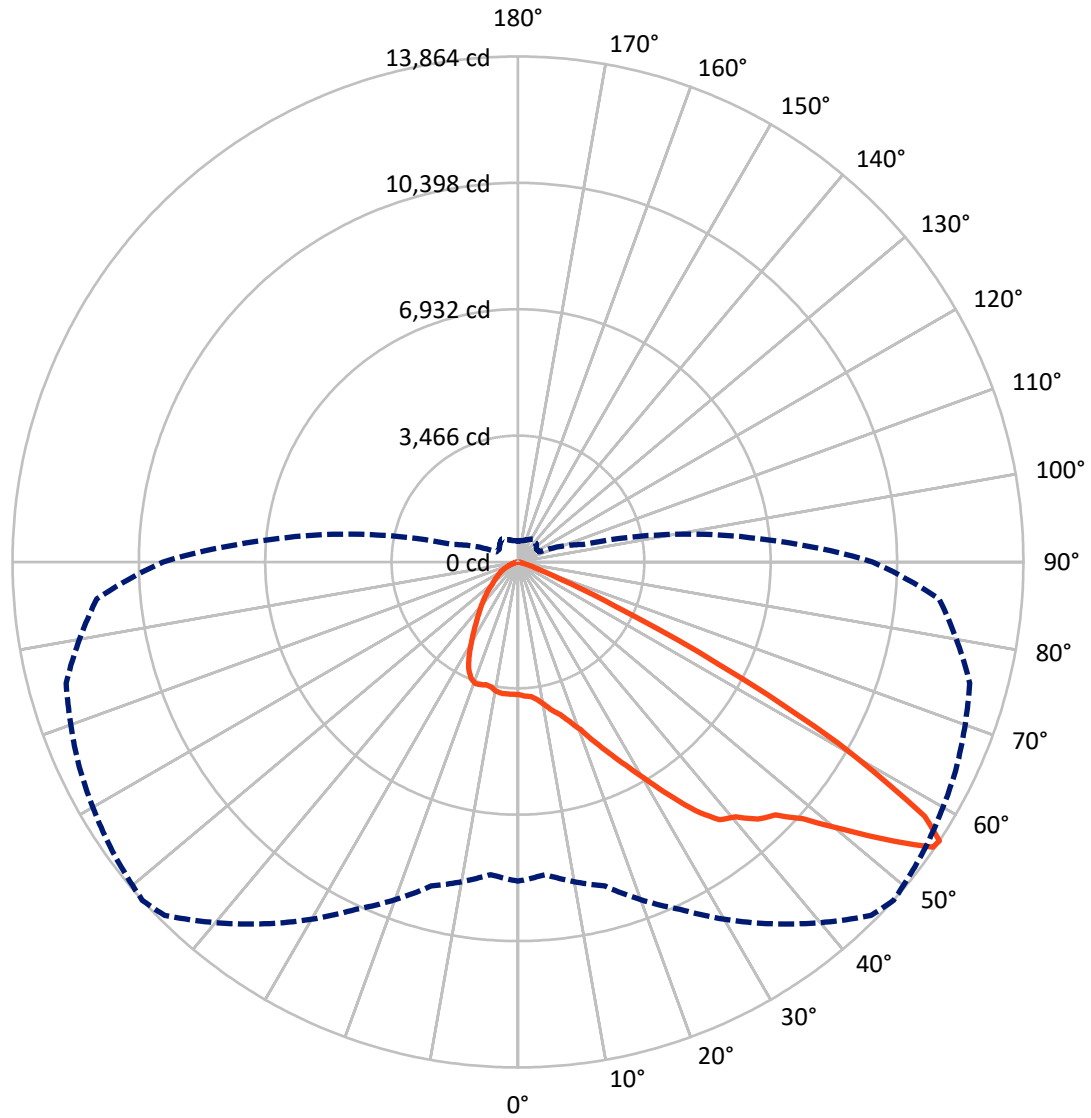
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA7A-740-U-T3-GRSBK

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	4136.7	0.0	4136.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	14884.3	0.0	14884.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	19021.0	0.0	19021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.9	1.9
10°-20°	1131.0	5.9
20°-30°	2051.4	10.8
30°-40°	3222.3	16.9
40°-50°	4700.8	24.7
50°-60°	5663.5	29.8
60°-70°	1658.2	8.7
70°-80°	210.4	1.1
80°-90°	29.5	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°	19021.0	100.0
0°-180°	19021.0	100.0

Coefficient of Utilization

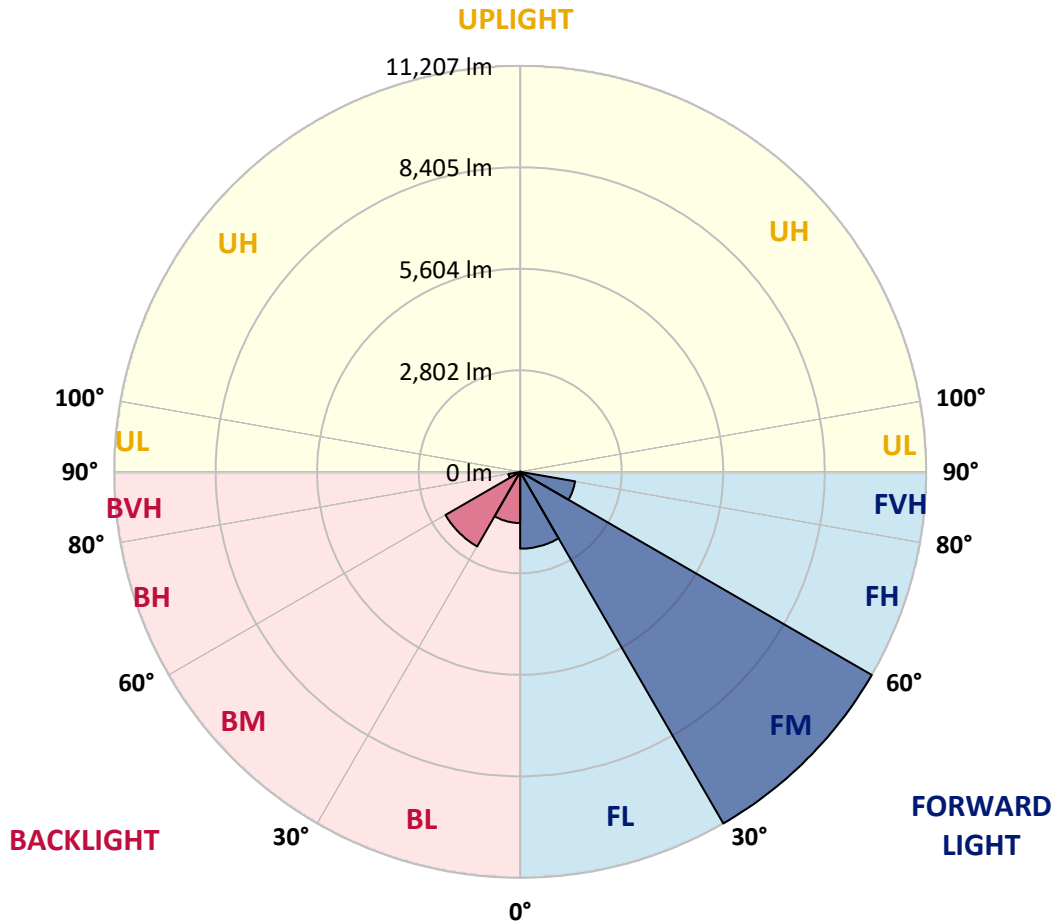


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2122.4	11.2			
FM (30°-60°)	11207.2	58.9			
FH (60°-80°)	1539.9	8.1			G1/1800
FVH (80°-90°)	14.8	0.1			G1/100
BL (0°-30°)	1413.9	7.4	B3/2500		
BM (30°-60°)	2379.4	12.5	B2/2500		
BH (60°-80°)	328.7	1.7	B1/500		G1/500
BVH (80°-90°)	14.7	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°	3633.0	3633.0	3633.0	3633.0	3633.0	3633.0	3633.0	3633.0	3633.0	3633.0	3633.0
2.5°	3698.8	3681.5	3681.5	3653.8	3685.0	3671.1	3681.5	3646.9	3681.5	3629.6	3671.1
5°	3716.1	3719.6	3705.7	3723.1	3723.1	3743.8	3709.2	3740.4	3757.7	3719.6	3702.3
7.5°	3806.2	3813.1	3809.6	3795.8	3823.5	3820.0	3816.6	3792.3	3799.3	3785.4	3764.6
10°	3982.8	3979.4	3996.7	3962.0	3941.3	3965.5	3972.4	3934.3	3906.6	3896.2	3830.4
12.5°	4239.1	4197.5	4173.3	4138.7	4149.1	4114.4	4176.8	4111.0	4097.1	4034.8	3969.0
15°	4446.9	4440.0	4443.4	4388.0	4325.7	4339.5	4339.5	4304.9	4284.1	4207.9	4114.4
17.5°	4872.9	4727.4	4758.6	4689.3	4637.4	4633.9	4602.7	4609.7	4554.3	4394.9	4253.0
20°	5205.4	5143.0	5094.5	4976.8	4897.1	4921.4	4907.5	4872.9	4855.6	4647.8	4446.9
22.5°	5503.2	5524.0	5444.3	5413.2	5302.3	5312.7	5340.4	5309.3	5177.7	4962.9	4665.1
25°	5922.3	5898.0	5790.7	5752.6	5648.7	5686.8	5794.1	5769.9	5686.8	5298.9	4834.8
27.5°	6417.5	6334.4	6355.2	6182.0	6081.6	6188.9	6317.1	6438.3	6202.8	5693.7	5035.7
30°	6767.3	6680.7	6673.8	6666.9	6642.6	6767.3	6916.2	7027.1	6836.6	6088.5	5368.1
32.5°	6940.5	6961.3	7020.1	6999.4	7210.6	7466.9	7622.8	7782.1	7543.1	6732.7	5808.0
35°	7401.1	7269.5	7401.1	7415.0	7633.2	8176.9	8374.3	8755.3	8696.4	7643.5	6344.8
37.5°	7671.2	7660.9	7678.2	7809.8	8021.0	8692.9	8973.5	9267.8	9157.0	8190.7	7013.2
40°	8118.0	8145.7	8142.3	8242.7	8474.7	9080.8	9195.1	9434.1	9444.5	8949.2	7996.8
42.5°	8834.9	8724.1	8651.4	8755.3	9080.8	9416.8	9645.3	9596.9	9939.7	9870.5	9260.9
45°	9479.1	9544.9	9437.5	9610.7	9728.5	9908.5	9901.6	10005.5	10441.9	10770.9	10213.3
47.5°	10081.7	10123.3	10175.2	10293.0	10549.3	10577.0	10518.1	10473.1	11075.7	11415.1	10951.0
50°	10441.9	10480.0	10722.4	10933.7	11411.6	11474.0	11508.6	11394.3	11803.0	11841.1	11647.1
52.5°	10344.9	10386.5	10725.9	11422.0	12183.9	12755.4	12651.5	12457.6	12433.3	12582.2	12291.3
55°	9486.0	9447.9	9915.5	10999.5	12426.4	13797.9	13811.7	13607.4	13216.0	13115.6	12194.3
56°	8755.3	8606.3	9202.0	10511.2	12114.7	13707.8	13863.7	13645.5	13278.4	12828.1	11595.2
57.5°	7172.5	7314.5	7906.8	8990.8	11037.6	13060.2	13150.2	13098.3	12821.2	12066.2	10202.9
60°	3955.1	4204.5	4727.4	6053.9	7858.3	10022.8	10095.6	10518.1	10570.0	9240.1	7020.1
62.5°	1679.7	1652.0	2195.7	3172.4	4474.6	6050.4	6185.5	6618.4	6698.1	5326.6	3522.2
65°	682.3	720.4	994.0	1596.6	2365.4	2756.8	2947.3	3089.3	3352.5	2199.2	1298.7
67.5°	450.2	446.8	585.3	910.9	1274.5	1229.5	1229.5	1298.7	1201.8	897.0	561.1
70°	322.1	332.5	419.1	630.3	793.1	588.8	564.5	540.3	613.0	592.2	453.7
72.5°	211.3	225.1	280.5	377.5	412.1	322.1	322.1	387.9	505.6	477.9	370.6
75°	138.5	142.0	173.2	218.2	204.3	166.2	183.6	259.7	367.1	353.3	263.2
77.5°	93.5	97.0	117.8	142.0	114.3	93.5	100.4	131.6	180.1	180.1	138.5
80°	34.6	38.1	48.5	45.0	51.9	65.8	72.7	90.0	107.4	107.4	93.5
82.5°	0.0	3.5	10.4	24.2	38.1	51.9	58.9	69.3	79.7	90.0	86.6
85°	0.0	3.5	10.4	17.3	27.7	31.2	34.6	24.2	20.8	20.8	17.3
87.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	6.9	3.5	3.5
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°	3633.0	3633.0	3633.0	3633.0	3633.0	3633.0	3633.0	3633.0	3633.0	3633.0	3633.0
2.5°	3633.0	3629.6	3629.6	3619.2	3639.9	3629.6	3636.5	3633.0	3588.0	3622.6	3598.4
5°	3671.1	3695.4	3657.3	3650.3	3622.6	3633.0	3633.0	3598.4	3629.6	3626.1	3619.2
7.5°	3768.1	3726.5	3685.0	3643.4	3636.5	3626.1	3588.0	3574.1	3598.4	3570.7	3612.2
10°	3809.6	3816.6	3754.2	3698.8	3646.9	3574.1	3522.2	3491.0	3452.9	3494.5	3518.7
12.5°	4000.1	3930.9	3823.5	3736.9	3560.3	3487.6	3435.6	3421.8	3487.6	3501.4	3477.2
15°	4065.9	4055.5	3917.0	3723.1	3539.5	3452.9	3463.3	3435.6	3442.5	3407.9	3414.8
17.5°	4201.0	4083.3	3920.5	3678.0	3536.0	3515.3	3452.9	3342.1	3279.8	3252.1	3276.3
20°	4349.9	4235.6	4000.1	3695.4	3567.2	3511.8	3307.5	3172.4	3044.3	2975.0	2978.5
22.5°	4481.5	4339.5	3965.5	3702.3	3594.9	3366.3	3120.4	2853.8	2694.5	2587.1	2590.6
25°	4640.8	4440.0	3979.4	3716.1	3522.2	3134.3	2781.0	2521.3	2330.8	2258.1	2282.3
27.5°	4730.9	4502.3	4055.5	3747.3	3331.7	2805.3	2424.3	2181.9	2071.1	2036.4	2033.0
30°	5001.0	4640.8	4149.1	3685.0	3013.1	2452.0	2098.8	1949.8	1842.5	1811.3	1818.2
32.5°	5402.8	4893.7	4270.3	3522.2	2687.5	2136.9	1887.5	1776.7	1676.2	1617.4	1610.4
35°	5738.7	5326.6	4398.4	3269.4	2310.0	1894.4	1738.6	1600.1	1447.7	1381.9	1364.5
37.5°	6379.4	5814.9	4370.7	2888.4	1949.8	1714.3	1579.3	1409.6	1278.0	1187.9	1177.5
40°	7231.4	6386.4	4235.6	2424.3	1683.2	1555.0	1409.6	1246.8	1084.0	1007.8	1000.9
42.5°	8266.9	7085.9	3989.7	1953.3	1416.5	1395.7	1264.1	1077.1	931.6	876.2	879.7
45°	9108.5	7685.1	3740.4	1568.9	1219.1	1239.9	1125.6	948.9	848.5	803.5	803.5
47.5°	9856.6	8090.3	3470.2	1295.3	1035.5	1084.0	983.6	879.7	793.1	758.5	751.5
50°	10577.0	8502.4	3200.1	1049.4	883.1	931.6	921.2	838.1	768.9	727.3	730.8
52.5°	11027.2	8568.2	2857.2	858.9	772.3	827.7	862.4	786.2	710.0	685.7	678.8
55°	10476.5	7719.7	2216.5	706.5	654.6	727.3	793.1	706.5	647.6	606.1	602.6
56°	9735.4	6902.4	1852.9	651.1	619.9	699.6	768.9	675.3	609.5	585.3	568.0
57.5°	8242.7	5648.7	1368.0	578.4	574.9	651.1	730.8	644.2	568.0	547.2	547.2
60°	5139.6	3179.3	827.7	484.9	498.7	578.4	658.0	574.9	505.6	505.6	516.0
62.5°	2341.2	1323.0	502.2	412.1	429.5	498.7	585.3	519.5	481.4	519.5	526.4
65°	796.6	571.4	363.6	329.0	339.4	412.1	502.2	526.4	523.0	547.2	561.1
67.5°	446.8	367.1	304.8	273.6	266.7	304.8	412.1	526.4	505.6	495.3	502.2
70°	377.5	311.7	270.1	242.4	232.0	245.9	318.6	398.3	356.7	346.3	339.4
72.5°	304.8	259.7	235.5	218.2	187.0	159.3	145.5	152.4	169.7	180.1	197.4
75°	214.7	197.4	197.4	176.6	135.1	100.4	79.7	65.8	45.0	31.2	34.6
77.5°	121.2	121.2	124.7	107.4	86.6	65.8	48.5	34.6	17.3	6.9	3.5
80°	83.1	90.0	97.0	86.6	72.7	58.9	41.6	24.2	10.4	0.0	0.0
82.5°	83.1	93.5	100.4	86.6	72.7	55.4	41.6	24.2	10.4	3.5	0.0
85°	17.3	20.8	24.2	27.7	41.6	41.6	31.2	20.8	10.4	3.5	0.0
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	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)