

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: STREETWORKS

Report Number: P268485

Luminaire Tested: **GAN-AF-05-LED-U-5NQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-5NQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26662 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

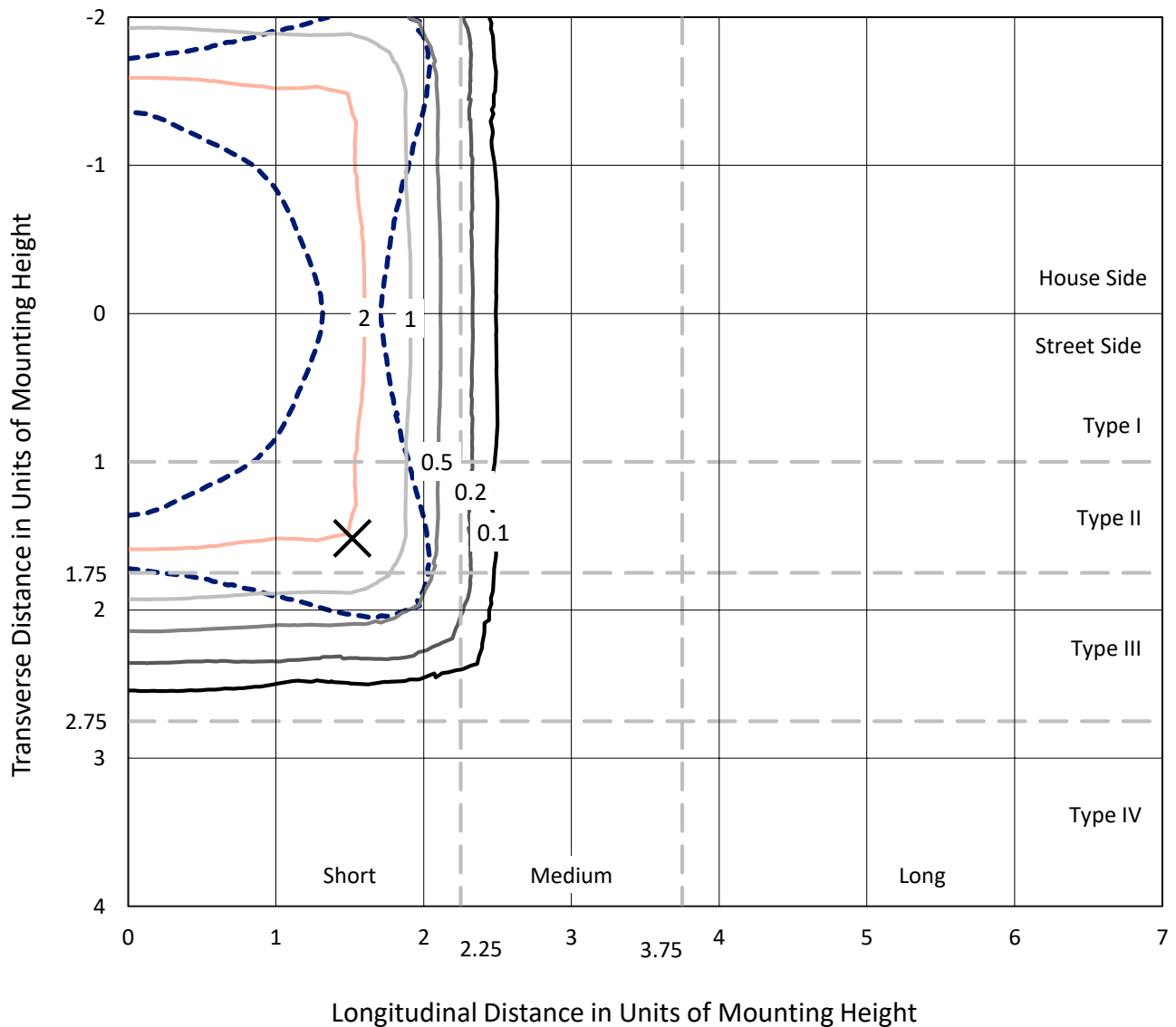
Input Watts (W): 279
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

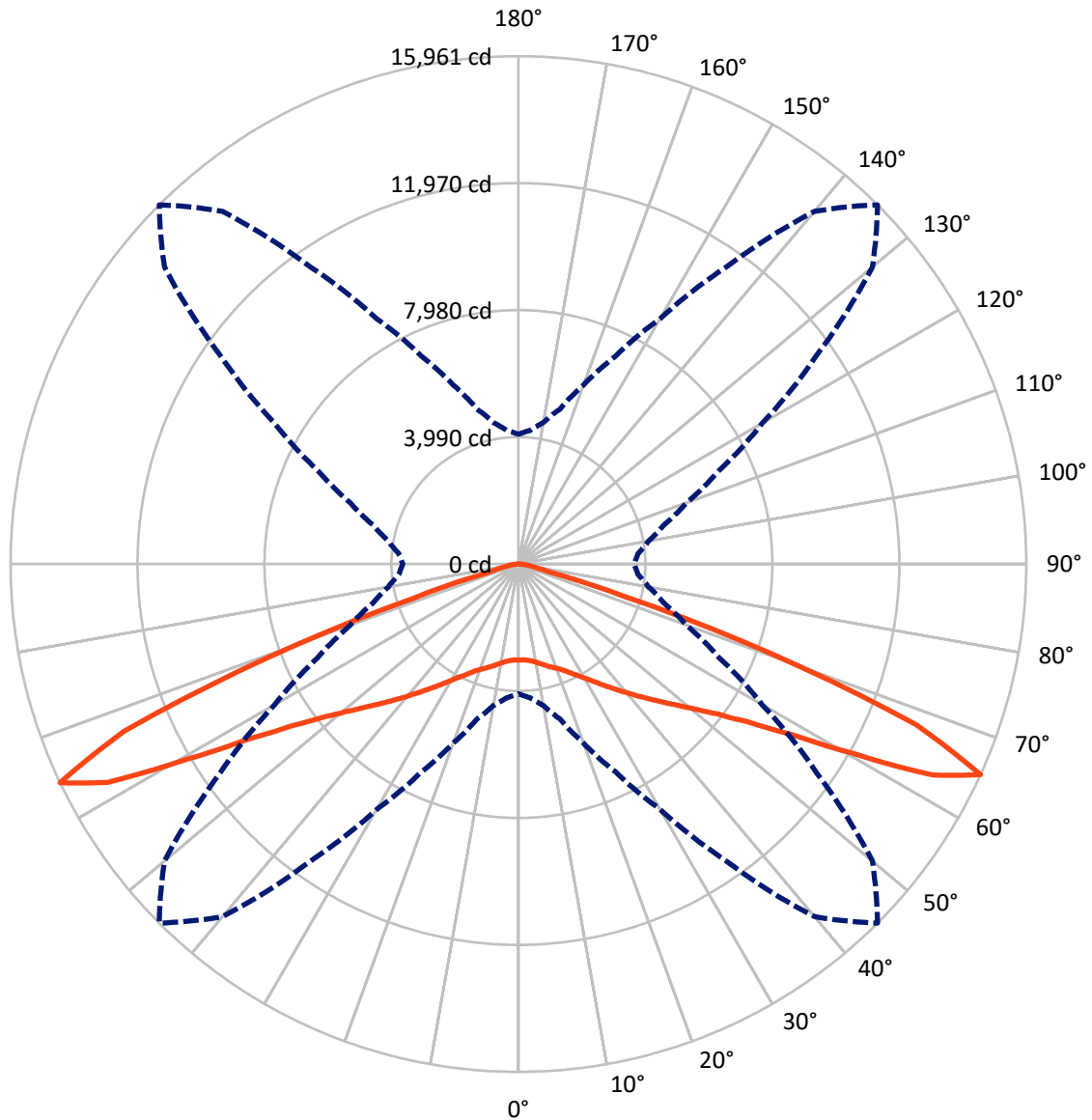
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13331.0	0.0	13331.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13331.0	0.0	13331.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26662.0	0.0	26662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.0	1.1
10°-20°	943.0	3.5
20°-30°	1763.3	6.6
30°-40°	2982.3	11.2
40°-50°	4876.3	18.3
50°-60°	7754.1	29.1
60°-70°	7009.2	26.3
70°-80°	887.0	3.3
80°-90°	152.6	0.6
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°	26662.0	100.0
0°-180°	26662.0	100.0

Coefficient of Utilization



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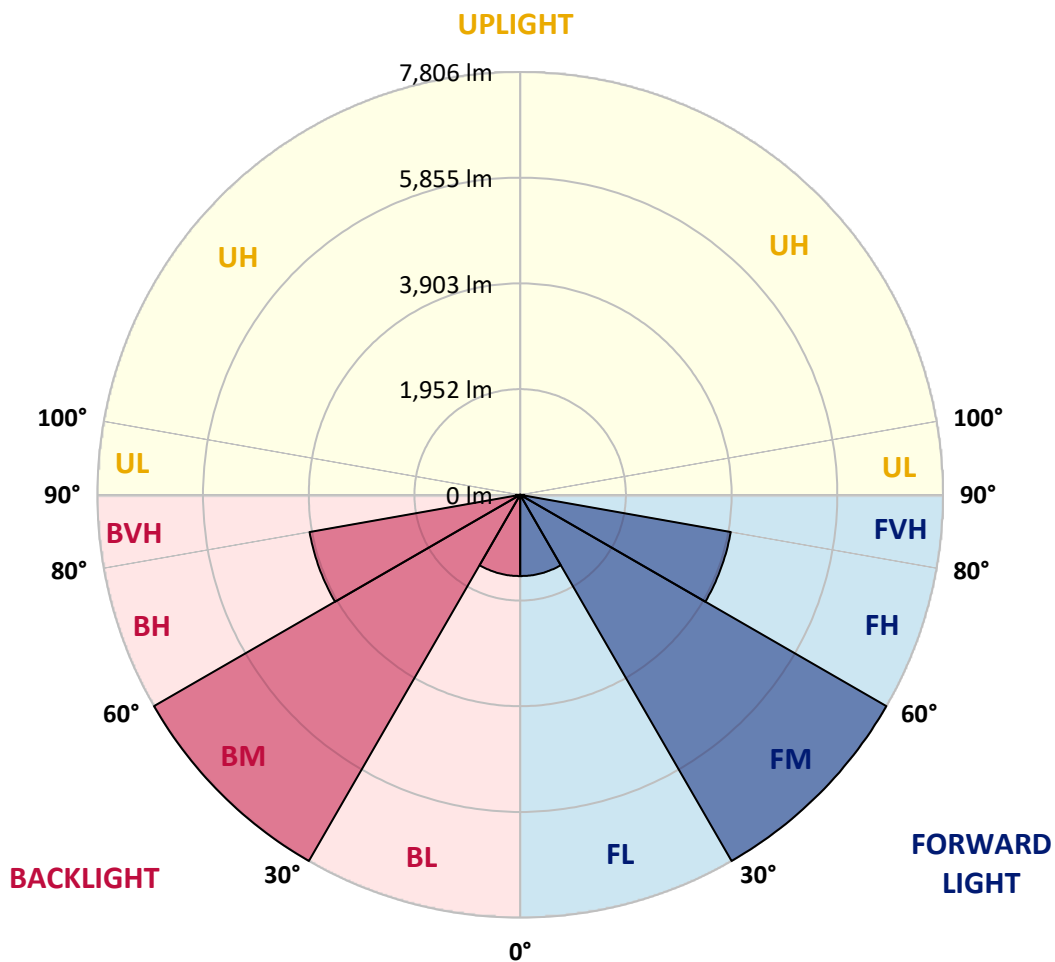
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1500.2	5.6			
FM	(30°-60°)	7806.4	29.3			
FH	(60°-80°)	3948.1	14.8			G2/5000
FVH	(80°-90°)	76.3	0.3			G1/100
BL	(0°-30°)	1500.2	5.6	B3/2500		
BM	(30°-60°)	7806.4	29.3	B4/8500		
BH	(60°-80°)	3948.1	14.8	B4/5000		G2/5000
BVH	(80°-90°)	76.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3016.8	3016.8	3016.8	3016.8	3016.8	3016.8	3016.8	3016.8	3016.8	3016.8	3016.8
2.5°	3019.4	3021.8	3024.4	3021.8	3024.4	3020.6	3018.0	3021.8	3018.0	3014.4	3016.8
5°	3045.6	3046.8	3046.8	3043.1	3046.8	3044.3	3040.6	3045.6	3041.8	3038.1	3040.6
7.5°	3089.2	3094.2	3090.4	3086.8	3089.2	3086.8	3084.2	3085.5	3084.2	3080.5	3081.7
10°	3147.9	3151.7	3149.2	3147.9	3150.4	3149.2	3146.7	3145.4	3146.7	3142.9	3142.9
12.5°	3219.0	3217.9	3216.7	3217.9	3221.6	3221.6	3220.3	3221.6	3224.0	3225.4	3222.8
15°	3289.1	3291.5	3291.5	3291.5	3299.0	3305.3	3308.9	3311.5	3316.5	3317.7	3312.8
17.5°	3376.4	3376.4	3375.2	3376.4	3383.9	3393.9	3397.7	3402.7	3407.6	3411.5	3405.1
20°	3473.8	3476.4	3476.4	3478.9	3488.7	3500.1	3500.1	3502.5	3500.1	3502.5	3498.8
22.5°	3592.4	3600.0	3600.0	3601.1	3611.1	3624.9	3621.2	3624.9	3618.7	3623.7	3618.7
25°	3747.3	3758.5	3756.1	3756.1	3763.4	3772.3	3773.5	3781.0	3779.8	3785.9	3782.3
27.5°	3922.1	3939.5	3944.5	3943.3	3948.3	3957.0	3959.5	3968.4	3963.3	3968.4	3965.7
30°	4131.8	4139.4	4149.5	4153.1	4159.3	4168.0	4168.0	4169.4	4163.1	4170.7	4174.3
32.5°	4349.1	4362.9	4372.9	4395.3	4406.5	4412.8	4411.5	4414.1	4407.9	4417.9	4425.3
35°	4636.3	4646.4	4662.6	4680.1	4695.0	4693.9	4690.1	4691.3	4691.3	4700.0	4707.5
37.5°	4982.2	4984.8	5006.0	5031.0	5038.5	5031.0	5008.5	5003.5	4992.2	5003.5	5016.0
40°	5348.1	5356.9	5399.4	5415.5	5419.3	5405.6	5373.1	5354.3	5329.4	5343.1	5360.5
42.5°	5731.5	5749.0	5787.6	5816.3	5828.8	5820.1	5775.2	5746.5	5713.9	5721.5	5738.9
45°	6155.9	6177.3	6232.3	6259.6	6283.4	6269.6	6226.0	6182.2	6131.0	6134.7	6162.3
47.5°	6630.5	6651.7	6722.8	6769.1	6781.6	6779.1	6730.5	6670.5	6600.6	6598.1	6621.8
50°	7162.5	7183.7	7272.3	7343.5	7379.7	7376.0	7318.5	7233.6	7148.7	7150.0	7180.0
52.5°	7681.9	7708.0	7800.5	7923.0	7994.0	8045.2	8010.2	7930.3	7826.8	7829.3	7856.7
55°	8168.8	8212.6	8318.8	8484.9	8617.1	8760.7	8802.0	8799.4	8737.0	8754.5	8782.0
57.5°	8404.9	8469.8	8633.4	8895.6	9165.2	9457.5	9704.7	9889.5	9968.2	10086.9	10059.4
60°	7957.8	8061.5	8302.5	8688.3	9221.6	9831.0	10483.8	11122.0	11666.4	12077.3	11841.3
62.5°	6515.6	6650.5	6942.7	7437.2	8243.7	9219.0	10468.9	11977.3	13620.6	14612.1	13904.1
65°	4077.0	4216.9	4514.1	5043.4	5987.5	7199.8	8895.6	11395.4	14465.9	15960.6	14519.7
67.5°	1589.6	1665.7	1826.9	2165.3	2874.4	3953.4	5655.3	8492.2	12164.7	13474.5	11938.7
70°	796.6	804.2	834.2	896.6	1049.0	1362.3	2072.7	3937.1	6976.3	8426.1	6725.4
72.5°	575.6	576.9	591.9	619.3	668.0	738.0	872.9	1204.9	2268.8	3467.5	2126.5
75°	440.8	445.7	454.5	469.5	495.8	530.7	579.3	694.3	860.3	997.7	839.0
77.5°	339.6	349.6	355.9	369.7	385.8	409.5	423.3	466.9	543.1	572.0	563.1
80°	258.5	267.2	281.0	292.2	303.4	314.6	309.6	329.7	369.7	393.4	380.8
82.5°	164.7	174.8	214.8	224.8	229.7	237.2	228.4	229.7	247.3	262.2	247.3
85°	106.1	112.4	136.2	148.6	149.8	154.9	151.1	142.3	142.3	129.8	146.2
87.5°	48.7	49.9	61.2	72.5	74.9	67.5	66.1	63.7	51.3	48.7	52.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3016.8	3016.8	3016.8	3016.8	3016.8	3016.8	3016.8	3016.8
2.5°	3015.6	3018.0	3019.4	3023.1	3024.4	3024.4	3025.5	3028.0
5°	3039.2	3043.1	3044.3	3049.2	3050.6	3049.2	3051.8	3053.0
7.5°	3081.7	3088.1	3090.4	3095.5	3091.7	3096.7	3098.0	3098.0
10°	3144.2	3150.4	3151.7	3156.6	3154.2	3156.6	3156.6	3154.2
12.5°	3226.6	3227.8	3224.0	3227.8	3222.8	3225.4	3221.6	3219.0
15°	3317.7	3313.9	3305.3	3305.3	3297.8	3299.0	3297.8	3296.5
17.5°	3406.5	3398.8	3392.7	3390.2	3383.9	3382.7	3379.0	3379.0
20°	3503.7	3500.1	3496.4	3491.4	3485.1	3478.9	3477.6	3480.0
22.5°	3621.2	3619.9	3619.9	3617.5	3608.8	3602.5	3598.7	3598.7
25°	3778.5	3767.3	3767.3	3766.1	3762.3	3758.5	3751.1	3754.7
27.5°	3955.9	3949.6	3954.6	3953.4	3949.6	3949.6	3944.5	3944.5
30°	4174.3	4171.9	4179.4	4173.0	4160.6	4159.3	4154.3	4148.2
32.5°	4426.6	4424.1	4435.3	4427.8	4407.9	4396.7	4386.7	4381.7
35°	4707.5	4708.7	4722.5	4717.4	4695.0	4687.5	4670.1	4667.6
37.5°	5014.7	5034.7	5058.4	5063.3	5044.7	5039.8	5020.9	5010.9
40°	5375.5	5401.8	5438.0	5446.8	5426.8	5423.0	5396.7	5383.1
42.5°	5760.1	5805.0	5850.0	5857.6	5837.5	5817.7	5792.6	5782.6
45°	6189.7	6243.4	6302.1	6317.2	6287.1	6263.4	6231.0	6231.0
47.5°	6671.7	6739.2	6805.3	6846.5	6819.0	6794.2	6755.3	6730.5
50°	7241.1	7333.6	7419.7	7462.1	7418.5	7371.0	7303.5	7281.0
52.5°	7955.3	8055.2	8130.2	8107.7	8040.3	7974.1	7900.5	7870.4
55°	8866.9	8900.5	8900.5	8815.6	8680.9	8569.7	8453.6	8414.9
57.5°	10006.8	9877.0	9677.4	9423.8	9105.4	8828.2	8640.8	8552.3
60°	11346.9	10722.3	10016.9	9323.9	8754.5	8285.0	8006.6	7879.2
62.5°	12239.5	10606.3	9192.7	8080.3	7261.1	6695.4	6310.9	6160.9
65°	11439.1	8845.7	6952.6	5621.6	4728.8	4153.1	3772.3	3632.3
67.5°	8378.6	5542.9	3702.4	2653.5	1944.2	1550.8	1394.8	1329.9
70°	3761.1	1951.7	1196.3	934.0	805.4	739.2	710.5	700.5
72.5°	1133.8	820.4	691.8	624.3	573.2	540.7	517.0	514.5
75°	684.2	569.3	505.7	465.7	433.3	407.1	394.5	390.9
77.5°	478.3	418.3	388.3	359.6	334.7	314.6	303.4	294.6
80°	335.8	307.2	293.4	277.1	261.0	242.3	226.1	218.5
82.5°	224.8	218.5	218.5	208.5	194.8	177.3	144.8	137.4
85°	144.8	143.5	146.2	142.3	132.4	113.6	93.7	88.7
87.5°	67.5	68.7	76.1	74.9	72.5	59.9	47.4	44.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)