

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: P268646

Luminaire Tested: **GAN-AF-07-LED-U-5NQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268646
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-07-LED-U-5NQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24860 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 226
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

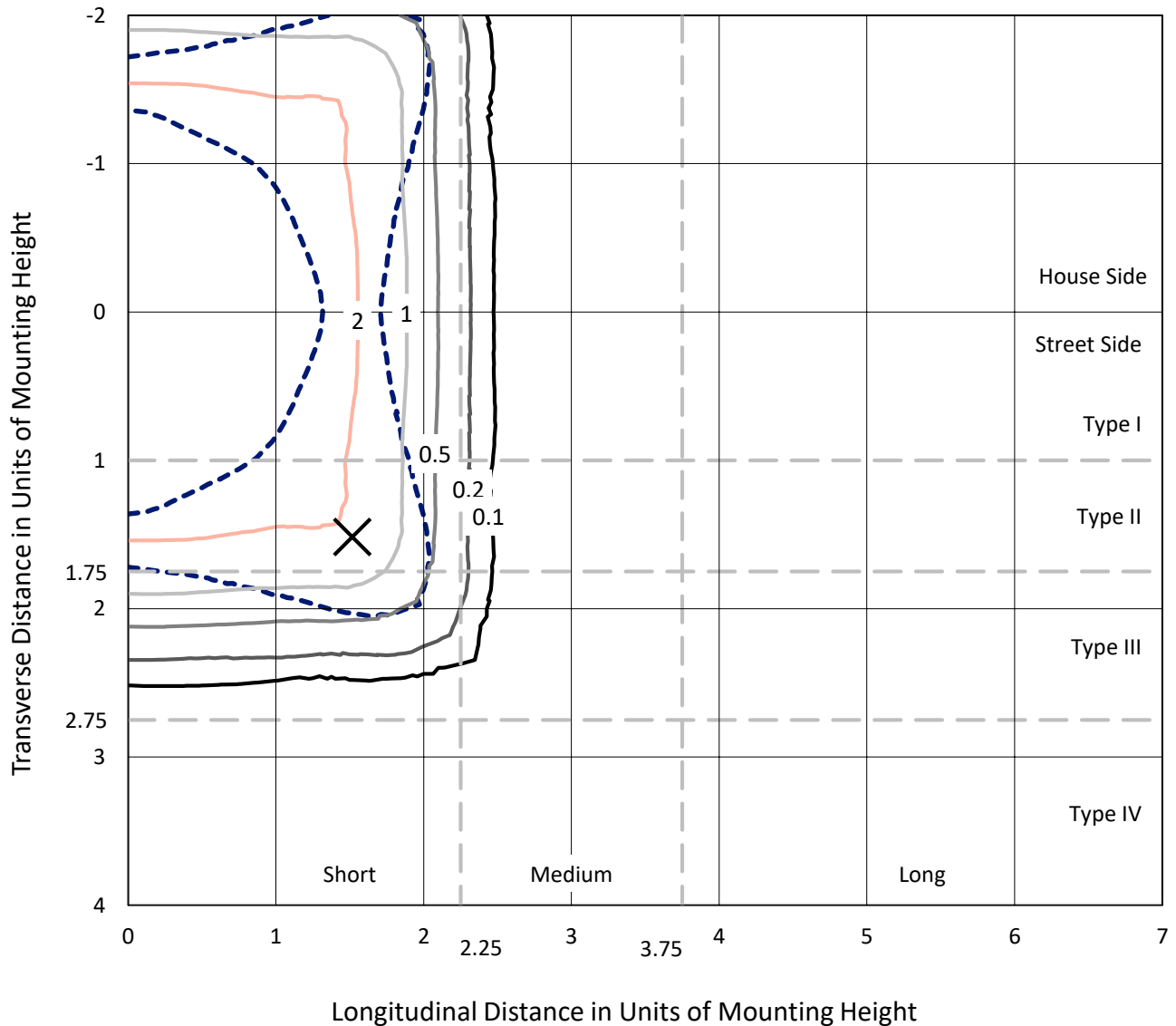


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

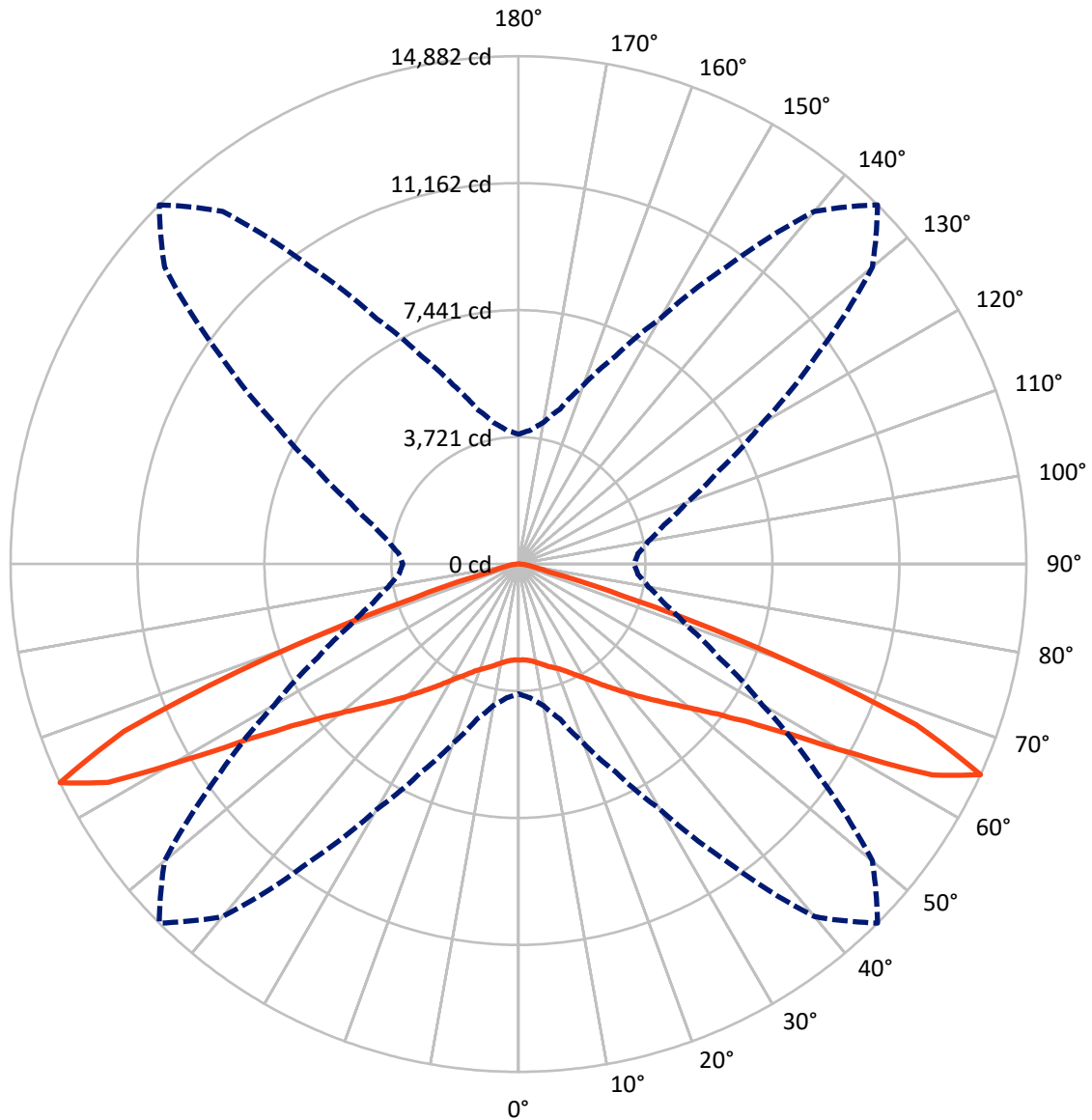


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Full Cutoff

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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	12430.0	0.0	12430.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12430.0	0.0	12430.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24860.0	0.0	24860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	1.1
10°-20°	879.3	3.5
20°-30°	1644.1	6.6
30°-40°	2780.7	11.2
40°-50°	4546.7	18.3
50°-60°	7230.0	29.1
60°-70°	6535.5	26.3
70°-80°	827.1	3.3
80°-90°	142.3	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°	24860.0	100.0
0°-180°	24860.0	100.0

Coefficient of Utilization



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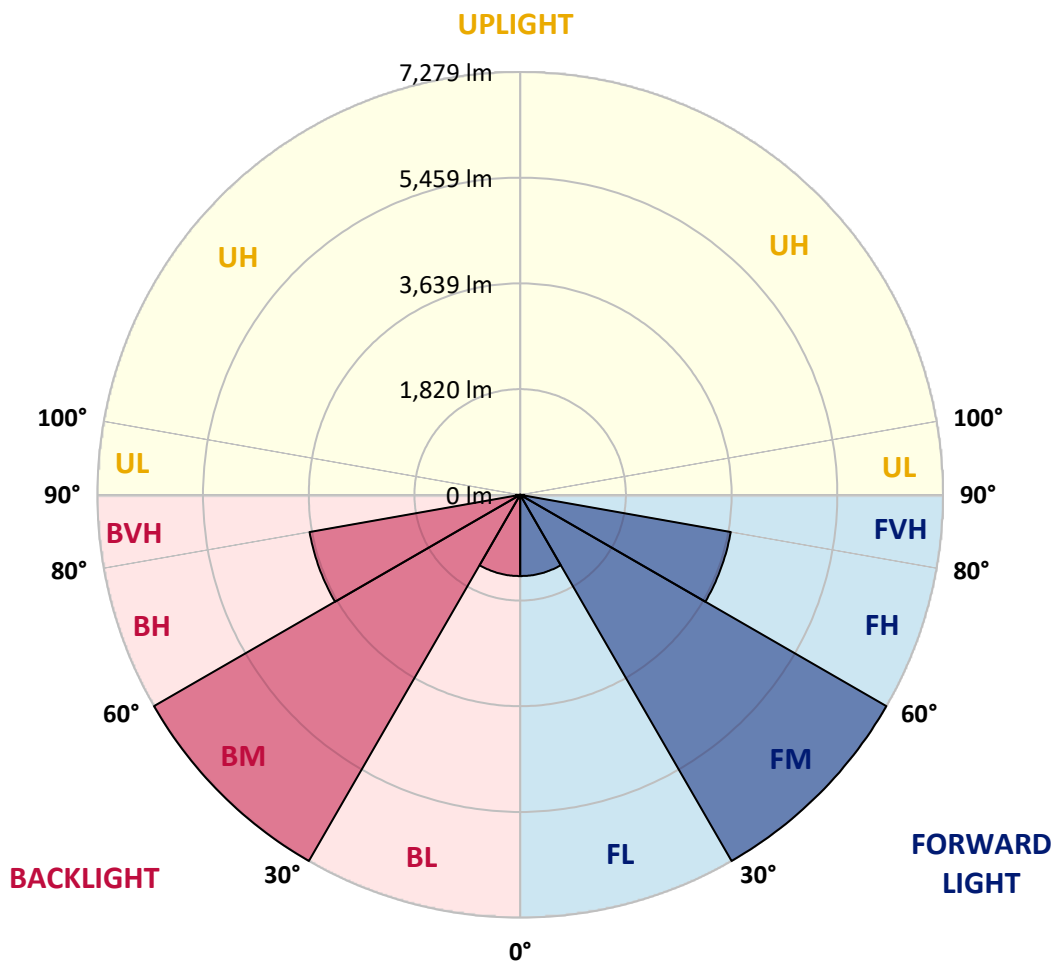
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1398.8	5.6			
FM	(30°-60°)	7278.7	29.3			
FH	(60°-80°)	3681.3	14.8			G2/5000
FVH	(80°-90°)	71.1	0.3			G1/100
BL	(0°-30°)	1398.8	5.6	B3/2500		
BM	(30°-60°)	7278.7	29.3	B4/8500		
BH	(60°-80°)	3681.3	14.8	B4/5000		G2/5000
BVH	(80°-90°)	71.1	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°	2813.0	2813.0	2813.0	2813.0	2813.0	2813.0	2813.0	2813.0	2813.0	2813.0	2813.0
2.5°	2815.3	2817.5	2819.9	2817.5	2819.9	2816.4	2814.1	2817.5	2814.1	2810.5	2813.0
5°	2839.7	2840.9	2840.9	2837.3	2840.9	2838.6	2835.1	2839.7	2836.2	2832.7	2835.1
7.5°	2880.4	2885.0	2881.7	2878.1	2880.4	2878.1	2875.7	2876.9	2875.7	2872.3	2873.5
10°	2935.1	2938.6	2936.3	2935.1	2937.5	2936.3	2934.0	2932.8	2934.0	2930.5	2930.5
12.5°	3001.5	3000.3	2999.3	3000.3	3003.8	3003.8	3002.7	3003.8	3006.2	3007.3	3005.0
15°	3066.8	3069.1	3069.1	3069.1	3076.1	3081.8	3085.4	3087.7	3092.3	3093.6	3088.8
17.5°	3148.2	3148.2	3147.0	3148.2	3155.1	3164.5	3168.1	3172.6	3177.3	3180.8	3175.0
20°	3239.1	3241.4	3241.4	3243.7	3253.0	3263.5	3263.5	3265.8	3263.5	3265.8	3262.4
22.5°	3349.7	3356.6	3356.6	3357.9	3367.0	3380.0	3376.4	3380.0	3374.2	3378.7	3374.2
25°	3494.0	3504.5	3502.2	3502.2	3509.1	3517.4	3518.5	3525.5	3524.3	3530.1	3526.7
27.5°	3657.0	3673.3	3678.0	3676.9	3681.4	3689.6	3691.9	3700.1	3695.4	3700.1	3697.8
30°	3852.7	3859.6	3868.9	3872.5	3878.3	3886.3	3886.3	3887.5	3881.8	3888.8	3892.1
32.5°	4055.2	4068.1	4077.3	4098.2	4108.8	4114.5	4113.3	4115.8	4109.9	4119.3	4126.3
35°	4323.1	4332.3	4347.4	4363.7	4377.7	4376.5	4373.0	4374.2	4374.2	4382.4	4389.4
37.5°	4645.6	4647.8	4667.7	4690.9	4697.9	4690.9	4670.0	4665.3	4654.7	4665.3	4676.9
40°	4986.6	4994.8	5034.5	5049.6	5053.0	5040.2	5009.9	4992.5	4969.2	4982.0	4998.3
42.5°	5344.0	5360.4	5396.5	5423.2	5434.8	5426.8	5384.8	5358.0	5327.8	5334.8	5351.1
45°	5739.9	5759.8	5811.0	5836.6	5858.7	5845.9	5805.1	5764.3	5716.6	5720.1	5745.7
47.5°	6182.3	6202.2	6268.6	6311.6	6323.2	6321.0	6275.5	6219.7	6154.4	6152.1	6174.2
50°	6678.4	6698.1	6780.8	6847.2	6880.9	6877.5	6823.9	6744.7	6665.6	6666.7	6694.7
52.5°	7162.6	7187.1	7273.2	7387.4	7453.7	7501.4	7468.9	7394.4	7297.7	7300.0	7325.7
55°	7616.8	7657.5	7756.4	7911.4	8034.7	8168.6	8207.0	8204.7	8146.5	8162.8	8188.4
57.5°	7836.9	7897.4	8049.9	8294.4	8545.8	8818.3	9048.8	9221.1	9294.6	9405.2	9379.6
60°	7420.0	7516.7	7741.4	8101.2	8598.2	9166.5	9775.4	10370.4	10877.9	11261.0	11040.9
62.5°	6075.2	6201.0	6473.5	6934.5	7686.5	8595.9	9761.4	11167.8	12700.1	13624.5	12964.2
65°	3801.4	3931.8	4208.9	4702.5	5582.7	6713.3	8294.4	10625.3	13488.3	14882.0	13538.4
67.5°	1482.2	1553.2	1703.4	2018.9	2680.3	3686.1	5273.1	7918.3	11342.4	12563.9	11131.7
70°	742.8	749.7	777.8	836.0	978.1	1270.3	1932.8	3671.1	6504.8	7856.5	6270.9
72.5°	536.7	537.8	551.9	577.5	622.9	688.1	813.9	1123.5	2115.5	3233.2	1982.7
75°	411.0	415.6	423.8	437.7	462.2	494.8	540.2	647.4	802.1	930.3	782.5
77.5°	316.7	326.1	331.8	344.6	359.9	381.9	394.6	435.5	506.5	533.2	525.1
80°	241.0	249.2	261.9	272.5	283.0	293.3	288.7	307.4	344.6	366.8	355.1
82.5°	153.7	163.0	200.2	209.6	214.2	221.3	213.1	214.2	230.5	244.5	230.5
85°	99.0	104.8	126.9	138.6	139.7	144.4	140.9	132.7	132.7	121.1	136.3
87.5°	45.5	46.6	57.0	67.6	69.9	62.9	61.8	59.4	47.7	45.5	48.9
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°	2813.0	2813.0	2813.0	2813.0	2813.0	2813.0	2813.0	2813.0
2.5°	2811.8	2814.1	2815.3	2818.7	2819.9	2819.9	2821.0	2823.5
5°	2833.9	2837.3	2838.6	2843.1	2844.4	2843.1	2845.6	2846.6
7.5°	2873.5	2879.2	2881.7	2886.3	2882.8	2887.4	2888.6	2888.6
10°	2931.7	2937.5	2938.6	2943.3	2941.1	2943.3	2943.3	2941.1
12.5°	3008.6	3009.7	3006.2	3009.7	3005.0	3007.3	3003.8	3001.5
15°	3093.6	3090.0	3081.8	3081.8	3074.9	3076.1	3074.9	3073.7
17.5°	3176.1	3169.2	3163.4	3161.0	3155.1	3154.0	3150.5	3150.5
20°	3267.0	3263.5	3259.9	3255.4	3249.4	3243.7	3242.5	3244.9
22.5°	3376.4	3375.3	3375.3	3373.0	3364.8	3358.9	3355.4	3355.4
25°	3523.2	3512.6	3512.6	3511.5	3508.1	3504.5	3497.6	3501.1
27.5°	3688.5	3682.6	3687.4	3686.1	3682.6	3682.6	3678.0	3678.0
30°	3892.1	3889.9	3896.8	3891.1	3879.4	3878.3	3873.6	3867.7
32.5°	4127.4	4125.0	4135.5	4128.6	4109.9	4099.4	4090.2	4085.5
35°	4389.4	4390.6	4403.3	4398.7	4377.7	4370.8	4354.4	4352.1
37.5°	4675.8	4694.5	4716.6	4721.2	4703.7	4699.0	4681.5	4672.3
40°	5012.3	5036.6	5070.5	5078.6	5060.1	5056.5	5032.0	5019.2
42.5°	5370.8	5412.7	5454.7	5461.6	5443.0	5424.4	5401.1	5391.7
45°	5771.4	5821.5	5876.2	5890.1	5862.2	5840.2	5809.8	5809.8
47.5°	6220.9	6283.6	6345.4	6383.7	6358.2	6334.8	6298.7	6275.5
50°	6751.8	6837.9	6918.1	6957.8	6916.9	6872.8	6810.0	6788.9
52.5°	7417.7	7510.8	7580.6	7559.6	7496.9	7435.1	7366.5	7338.6
55°	8267.6	8299.0	8299.0	8219.9	8094.1	7990.6	7882.2	7846.2
57.5°	9330.5	9209.6	9023.3	8787.0	8490.1	8231.4	8056.9	7974.3
60°	10579.9	9997.7	9339.9	8693.7	8162.8	7725.1	7465.5	7346.7
62.5°	11412.3	9889.4	8571.4	7534.2	6770.3	6243.0	5884.3	5744.7
65°	10666.0	8247.8	6482.8	5241.6	4409.2	3872.5	3517.4	3386.9
67.5°	7812.4	5168.3	3452.0	2474.1	1812.8	1446.0	1300.4	1240.0
70°	3506.9	1819.7	1115.3	870.8	751.0	689.3	662.5	653.2
72.5°	1057.1	764.9	645.1	582.1	534.4	504.0	482.0	479.6
75°	638.1	530.9	471.5	434.3	404.0	379.5	367.9	364.4
77.5°	445.9	390.0	362.0	335.2	312.0	293.3	283.0	274.8
80°	313.1	286.4	273.7	258.4	243.4	225.8	210.7	203.7
82.5°	209.6	203.7	203.7	194.5	181.6	165.3	135.0	128.1
85°	135.0	133.8	136.3	132.7	123.3	105.9	87.3	82.6
87.5°	62.9	64.0	71.1	69.9	67.6	55.9	44.2	42.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)