

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: P192593

Luminaire Tested: **GAN-AF-05-LED-U-5NQ-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192593
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-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 29680.3 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G2

Input Watts (W): 279
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: 28.75 FT

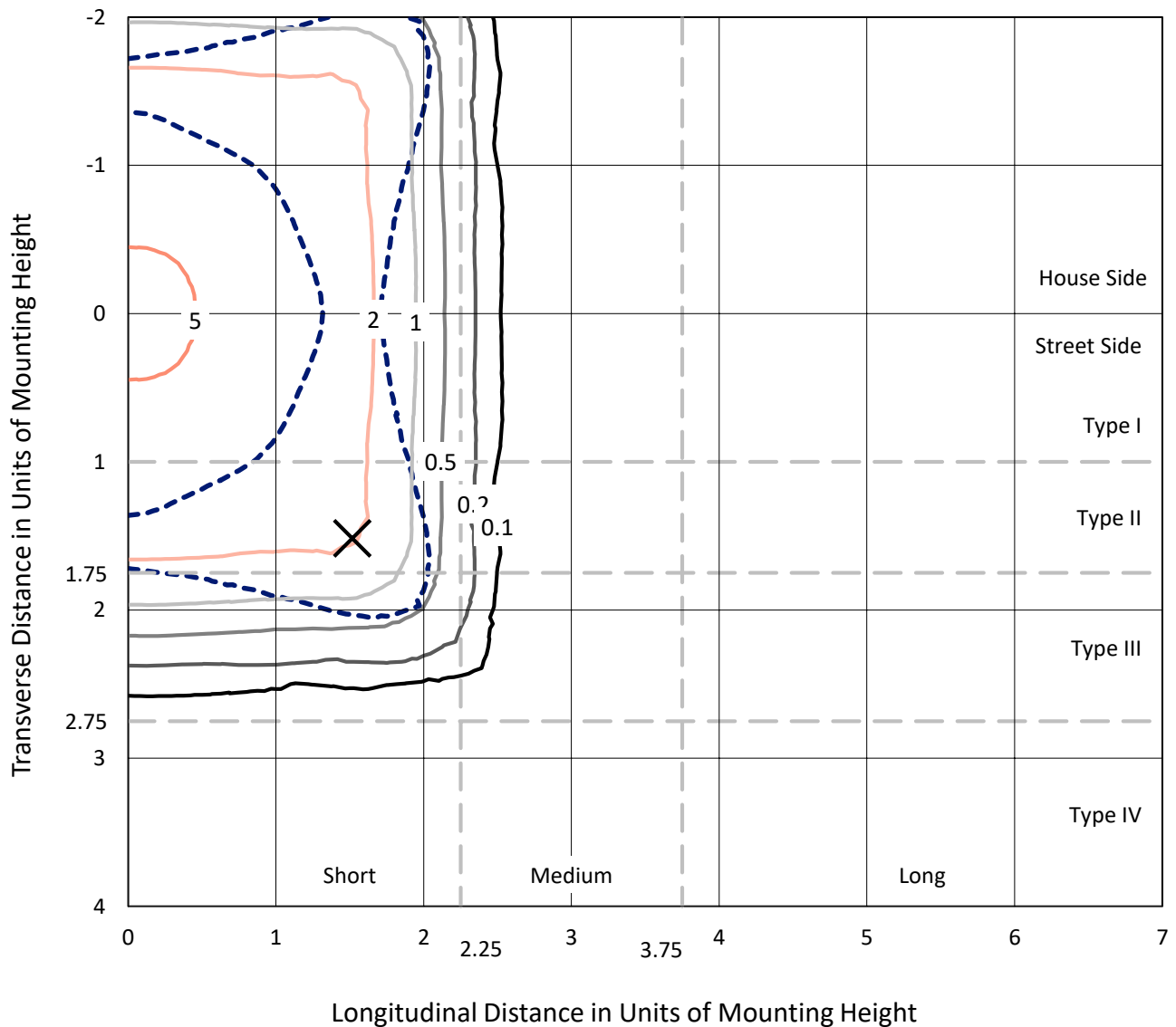


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

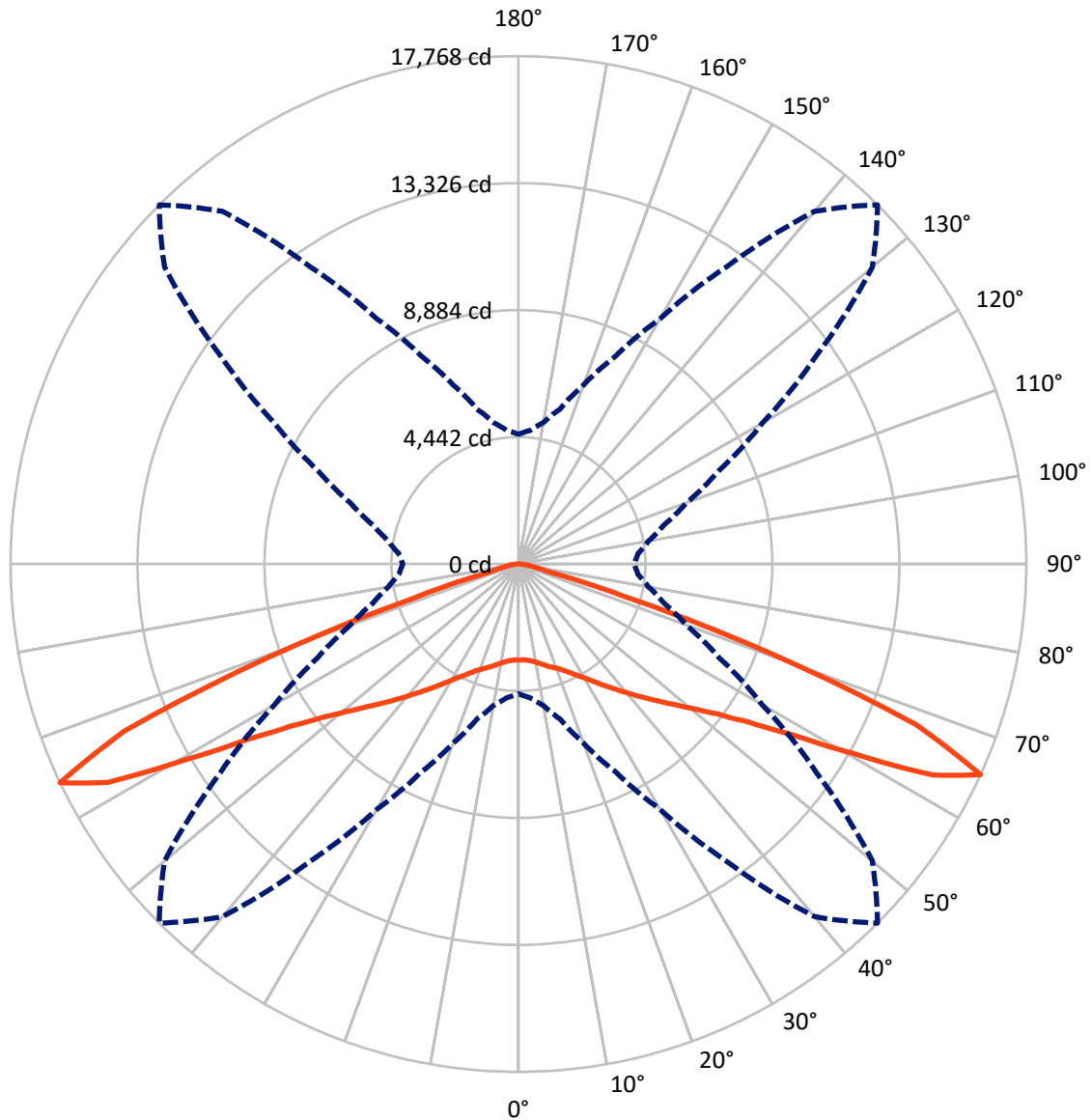


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Full Cutoff

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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	14840.1	0.0	14840.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14840.1	0.0	14840.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	29680.3	0.0	29680.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.3	1.1
10°-20°	1049.8	3.5
20°-30°	1962.9	6.6
30°-40°	3319.9	11.2
40°-50°	5428.4	18.3
50°-60°	8631.9	29.1
60°-70°	7802.7	26.3
70°-80°	987.5	3.3
80°-90°	169.9	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°	29680.3	100.0
0°-180°	29680.3	100.0

Coefficient of Utilization



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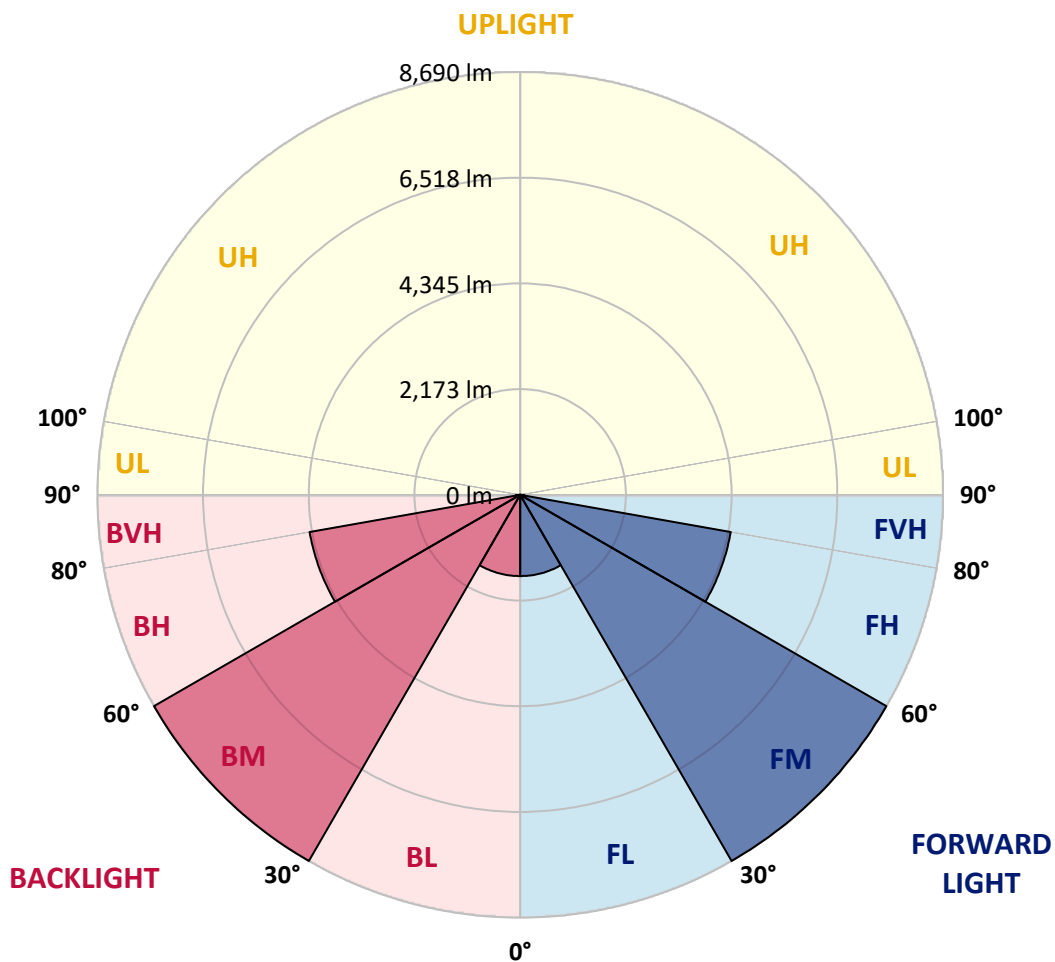
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1670.0	5.6			
FM	(30°-60°)	8690.1	29.3			
FH	(60°-80°)	4395.1	14.8			G2/5000
FVH	(80°-90°)	84.9	0.3			G1/100
BL	(0°-30°)	1670.0	5.6	B3/2500		
BM	(30°-60°)	8690.1	29.3	B5		
BH	(60°-80°)	4395.1	14.8	B4/5000		G2/5000
BVH	(80°-90°)	84.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3
2.5°	3361.2	3363.9	3366.8	3363.9	3366.8	3362.6	3359.7	3363.9	3359.7	3355.6	3358.3
5°	3390.4	3391.7	3391.7	3387.6	3391.7	3388.9	3384.8	3390.4	3386.2	3382.0	3384.8
7.5°	3438.9	3444.5	3440.3	3436.2	3438.9	3436.2	3433.4	3434.8	3433.4	3429.2	3430.6
10°	3504.3	3508.5	3505.7	3504.3	3507.1	3505.7	3502.9	3501.5	3502.9	3498.7	3498.7
12.5°	3583.4	3582.2	3580.8	3582.2	3586.3	3586.3	3584.9	3586.3	3589.0	3590.5	3587.7
15°	3661.4	3664.1	3664.1	3664.1	3672.5	3679.5	3683.5	3686.4	3692.0	3693.3	3687.8
17.5°	3758.6	3758.6	3757.3	3758.6	3767.0	3778.1	3782.3	3787.9	3793.4	3797.7	3790.6
20°	3867.1	3869.9	3869.9	3872.7	3883.7	3896.3	3896.3	3899.0	3896.3	3899.0	3894.9
22.5°	3999.1	4007.5	4007.5	4008.8	4019.9	4035.3	4031.1	4035.3	4028.4	4033.9	4028.4
25°	4171.5	4184.0	4181.3	4181.3	4189.5	4199.3	4200.7	4209.0	4207.7	4214.5	4210.5
27.5°	4366.1	4385.5	4391.1	4389.7	4395.3	4405.0	4407.8	4417.6	4412.0	4417.6	4414.7
30°	4599.6	4608.0	4619.2	4623.3	4630.2	4639.9	4639.9	4641.4	4634.4	4642.8	4646.9
32.5°	4841.5	4856.8	4867.9	4892.9	4905.4	4912.4	4910.9	4913.8	4906.9	4918.0	4926.3
35°	5161.2	5172.4	5190.4	5209.9	5226.5	5225.3	5221.0	5222.4	5222.4	5232.1	5240.4
37.5°	5546.2	5549.1	5572.7	5600.5	5608.9	5600.5	5575.5	5569.9	5557.4	5569.9	5583.8
40°	5953.5	5963.3	6010.6	6028.6	6032.8	6017.5	5981.4	5960.5	5932.7	5948.0	5967.4
42.5°	6380.3	6399.8	6442.8	6474.8	6488.7	6479.0	6429.0	6397.0	6360.8	6369.2	6388.6
45°	6852.8	6876.6	6937.8	6968.2	6994.7	6979.4	6930.8	6882.1	6825.1	6829.2	6859.9
47.5°	7381.1	7404.7	7483.9	7535.4	7549.3	7546.5	7492.4	7425.6	7347.8	7345.0	7371.4
50°	7973.3	7996.9	8095.6	8174.8	8215.1	8211.0	8147.0	8052.5	7958.0	7959.4	7992.8
52.5°	8551.5	8580.6	8683.6	8819.9	8899.0	8956.0	8917.0	8828.1	8712.8	8715.6	8746.1
55°	9093.6	9142.3	9260.5	9445.4	9592.6	9752.5	9798.4	9795.6	9726.1	9745.6	9776.2
57.5°	9356.4	9428.6	9610.8	9902.6	10202.8	10528.2	10803.4	11009.1	11096.7	11228.8	11198.2
60°	8858.7	8974.1	9242.4	9671.9	10265.5	10943.9	11670.7	12381.1	12987.1	13444.5	13181.8
62.5°	7253.2	7403.4	7728.7	8279.1	9177.0	10262.7	11654.1	13333.2	15162.6	16266.3	15478.1
65°	4538.5	4694.3	5025.1	5614.4	6665.3	8014.9	9902.6	12685.5	16103.6	17767.5	16163.4
67.5°	1769.6	1854.3	2033.7	2410.4	3199.8	4400.9	6295.5	9453.6	13541.8	14999.9	13290.2
70°	886.8	895.2	928.6	998.1	1167.7	1516.5	2307.4	4382.8	7766.1	9380.0	7486.8
72.5°	640.8	642.2	658.9	689.4	743.6	821.5	971.7	1341.3	2525.7	3860.1	2367.2
75°	490.7	496.2	506.0	522.7	551.9	590.8	644.9	772.9	957.7	1110.6	934.0
77.5°	378.0	389.2	396.2	411.5	429.5	455.9	471.2	519.8	604.6	636.7	626.9
80°	287.8	297.5	312.8	325.3	337.8	350.2	344.7	367.0	411.5	437.9	423.9
82.5°	183.4	194.6	239.1	250.2	255.7	264.1	254.3	255.7	275.3	291.9	275.3
85°	118.1	125.1	151.6	165.4	166.8	172.4	168.2	158.4	158.4	144.5	162.7
87.5°	54.2	55.6	68.1	80.7	83.4	75.1	73.6	70.9	57.1	54.2	58.4
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°	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3
2.5°	3357.0	3359.7	3361.2	3365.3	3366.8	3366.8	3368.0	3370.8
5°	3383.3	3387.6	3388.9	3394.4	3395.9	3394.4	3397.3	3398.6
7.5°	3430.6	3437.7	3440.3	3445.9	3441.7	3447.3	3448.7	3448.7
10°	3500.1	3507.1	3508.5	3514.0	3511.3	3514.0	3514.0	3511.3
12.5°	3591.9	3593.2	3589.0	3593.2	3587.7	3590.5	3586.3	3583.4
15°	3693.3	3689.1	3679.5	3679.5	3671.1	3672.5	3671.1	3669.7
17.5°	3792.1	3783.6	3776.8	3774.0	3767.0	3765.6	3761.5	3761.5
20°	3900.4	3896.3	3892.2	3886.6	3879.6	3872.7	3871.3	3874.0
22.5°	4031.1	4029.7	4029.7	4027.0	4017.3	4010.3	4006.1	4006.1
25°	4206.3	4193.8	4193.8	4192.4	4188.2	4184.0	4175.7	4179.8
27.5°	4403.7	4396.7	4402.3	4400.9	4396.7	4396.7	4391.1	4391.1
30°	4646.9	4644.2	4652.5	4645.4	4631.6	4630.2	4624.6	4617.8
32.5°	4927.7	4924.9	4937.4	4929.1	4906.9	4894.4	4883.3	4877.7
35°	5240.4	5241.8	5257.1	5251.5	5226.5	5218.2	5198.8	5196.0
37.5°	5582.4	5604.7	5631.0	5636.5	5615.8	5610.3	5589.3	5578.2
40°	5984.1	6013.3	6053.6	6063.4	6041.2	6036.9	6007.7	5992.5
42.5°	6412.2	6462.2	6512.3	6520.7	6498.4	6476.3	6448.4	6437.2
45°	6890.4	6950.2	7015.5	7032.3	6998.8	6972.5	6936.4	6936.4
47.5°	7427.0	7502.1	7575.7	7621.6	7591.0	7563.3	7520.1	7492.4
50°	8060.8	8163.8	8259.7	8306.9	8258.3	8205.4	8130.3	8105.3
52.5°	8855.9	8967.1	9050.6	9025.6	8950.5	8876.8	8794.9	8761.4
55°	9870.7	9908.1	9908.1	9813.6	9663.6	9539.9	9410.6	9367.5
57.5°	11139.7	10995.2	10772.9	10490.6	10136.2	9827.6	9619.0	9520.5
60°	12631.4	11936.2	11150.9	10379.4	9745.6	9222.9	8913.0	8771.2
62.5°	13625.1	11807.0	10233.4	8995.0	8083.1	7453.4	7025.3	6858.4
65°	12734.1	9847.1	7739.7	6258.0	5264.1	4623.3	4199.3	4043.5
67.5°	9327.1	6170.4	4121.5	2953.9	2164.3	1726.4	1552.7	1480.4
70°	4186.9	2172.6	1331.7	1039.7	896.6	822.9	790.9	779.8
72.5°	1262.2	913.3	770.1	695.0	638.1	601.9	575.5	572.7
75°	761.7	633.8	563.0	518.4	482.4	453.2	439.2	435.1
77.5°	532.4	465.7	432.3	400.3	372.6	350.2	337.8	328.0
80°	373.8	342.0	326.6	308.5	290.5	269.7	251.7	243.2
82.5°	250.2	243.2	243.2	232.1	216.9	197.4	161.2	152.9
85°	161.2	159.8	162.7	158.4	147.4	126.5	104.3	98.7
87.5°	75.1	76.5	84.7	83.4	80.7	66.7	52.8	50.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)