

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: P192637

Luminaire Tested: **GAN-AF-09-LED-U-5WQ-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-5WQ-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54210.1 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 501
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

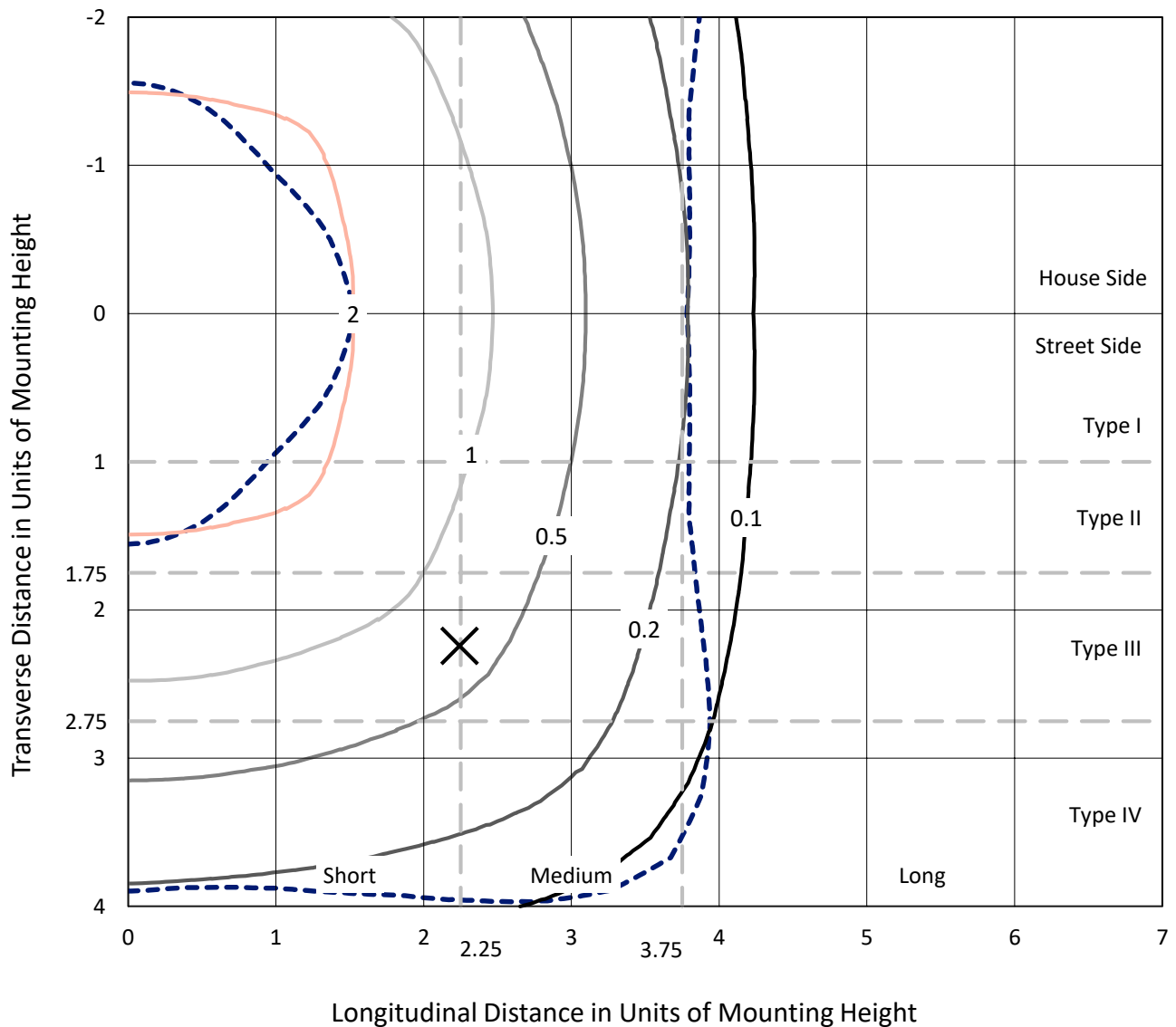


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

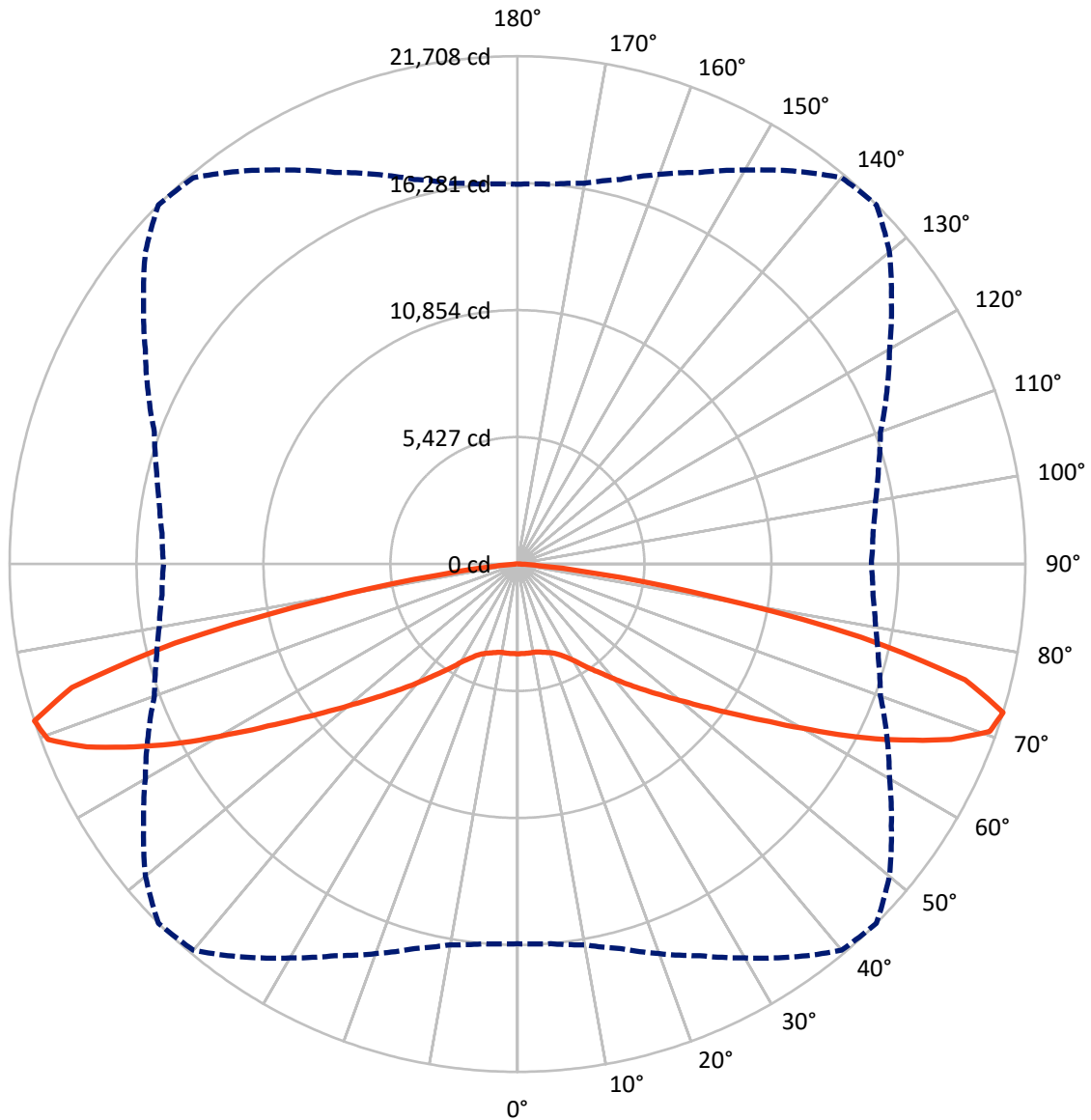


Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27105.0	0.0	27105.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27105.0	0.0	27105.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	54210.1	0.0	54210.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.6	0.7
10°-20°	1113.3	2.1
20°-30°	2034.5	3.8
30°-40°	3507.8	6.5
40°-50°	5996.6	11.1
50°-60°	9719.7	17.9
60°-70°	16124.6	29.7
70°-80°	14202.0	26.2
80°-90°	1145.1	2.1
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°	54210.1	100.0
0°-180°	54210.1	100.0



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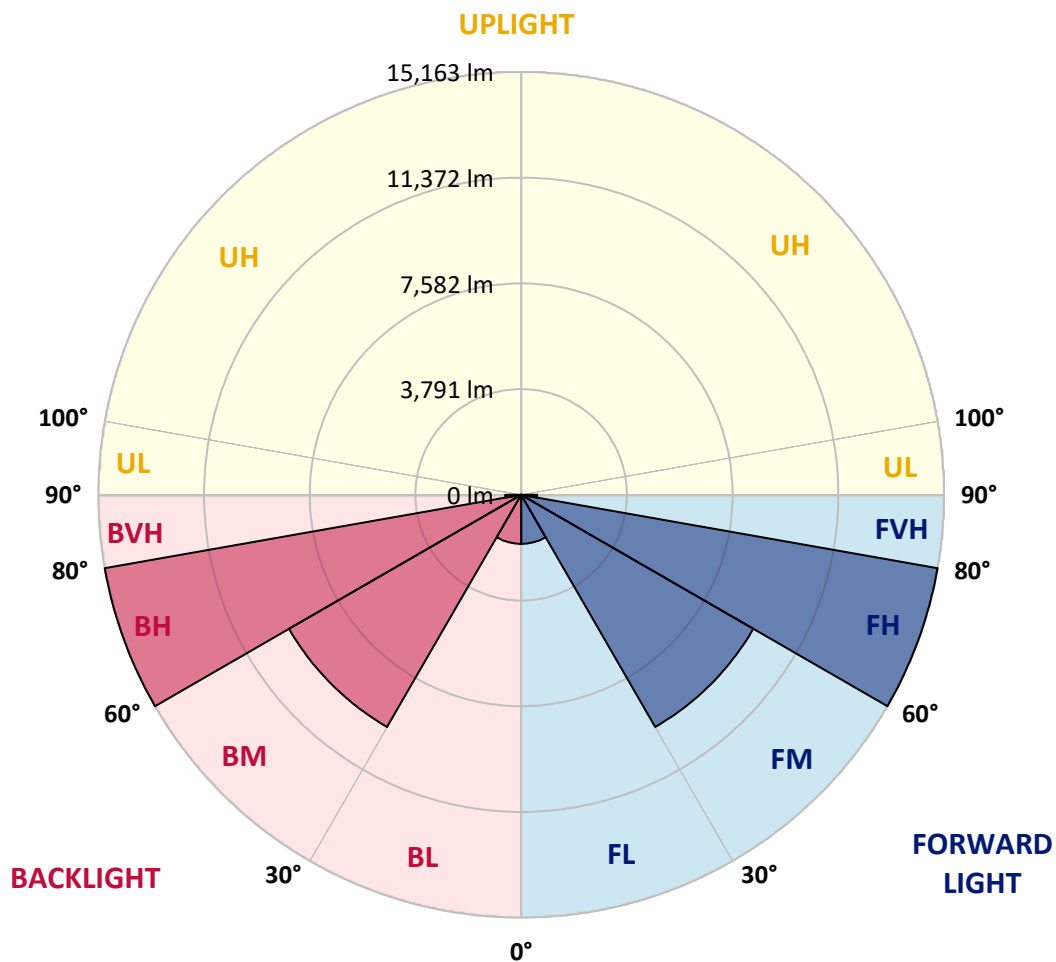
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1757.2	3.2			
FM	(30°-60°)	9612.0	17.7			
FH	(60°-80°)	15163.3	28.0			G5
FVH	(80°-90°)	572.5	1.1			G4/750
BL	(0°-30°)	1757.2	3.2	B3/2500		
BM	(30°-60°)	9612.0	17.7	B5		
BH	(60°-80°)	15163.3	28.0	B5		G5
BVH	(80°-90°)	572.5	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3839.0	3839.0	3839.0	3839.0	3839.0	3839.0	3839.0	3839.0	3839.0	3839.0	3839.0
2.5°	3839.0	3841.4	3843.8	3841.4	3841.4	3839.0	3836.4	3839.0	3836.4	3831.5	3833.9
5°	3851.4	3856.3	3856.3	3851.4	3853.8	3851.4	3846.4	3848.8	3843.8	3836.4	3836.4
7.5°	3866.2	3868.8	3868.8	3863.7	3866.2	3861.3	3856.3	3853.8	3848.8	3839.0	3831.5
10°	3888.6	3891.2	3888.6	3883.6	3883.6	3876.2	3863.7	3858.8	3848.8	3833.9	3826.5
12.5°	3913.5	3916.0	3913.5	3908.5	3906.0	3893.6	3883.6	3876.2	3868.8	3856.3	3843.8
15°	3948.3	3953.3	3948.3	3938.4	3930.9	3921.0	3916.0	3918.5	3921.0	3911.1	3898.6
17.5°	4013.0	4015.5	4007.9	3985.6	3975.6	3965.7	3965.7	3970.7	3978.1	3973.2	3960.7
20°	4132.3	4124.9	4107.5	4080.1	4067.6	4050.2	4047.7	4050.2	4050.2	4047.7	4037.7
22.5°	4281.5	4276.5	4254.1	4219.4	4201.9	4191.9	4177.1	4164.6	4162.1	4154.7	4144.8
25°	4460.5	4458.0	4430.7	4400.9	4388.4	4376.0	4363.5	4346.2	4331.2	4313.8	4303.8
27.5°	4689.3	4679.2	4639.4	4624.6	4607.3	4599.7	4582.4	4562.4	4550.0	4527.6	4515.2
30°	4940.3	4940.3	4908.0	4903.1	4903.1	4885.6	4865.8	4831.0	4808.6	4786.2	4778.8
32.5°	5191.5	5193.9	5161.6	5171.6	5179.1	5191.5	5196.5	5184.1	5169.0	5166.7	5151.7
35°	5554.5	5544.6	5512.2	5519.7	5517.1	5514.8	5514.8	5542.0	5547.0	5552.0	5522.2
37.5°	6004.6	6004.6	5972.2	5972.2	5957.3	5942.4	5922.5	5939.9	5967.2	5974.8	5954.8
40°	6519.2	6536.6	6496.8	6494.4	6499.3	6452.1	6429.7	6457.0	6474.4	6504.3	6482.0
42.5°	7125.9	7113.5	7073.7	7068.6	7041.3	7026.5	7006.5	7028.8	7056.3	7076.1	7083.6
45°	7707.7	7697.8	7652.9	7652.9	7625.6	7613.1	7623.1	7660.3	7672.8	7700.1	7727.6
47.5°	8282.0	8269.7	8239.8	8252.2	8254.6	8277.1	8309.3	8344.1	8379.0	8416.2	8428.7
50°	8868.8	8871.3	8839.0	8868.8	8906.0	8968.2	9055.3	9112.4	9184.6	9231.8	9246.7
52.5°	9403.4	9413.3	9448.0	9517.7	9592.3	9714.1	9863.4	10002.5	10121.9	10201.4	10196.5
55°	10044.9	10059.7	10144.2	10263.6	10385.4	10569.4	10790.8	11037.0	11235.7	11350.2	11278.1
57.5°	10865.3	10897.6	10992.1	11153.7	11335.2	11574.0	11877.2	12247.8	12556.1	12710.2	12593.3
60°	11991.6	12011.5	12125.9	12304.9	12523.8	12819.6	13224.8	13722.1	14157.3	14361.1	14226.8
62.5°	13476.0	13513.3	13605.3	13786.8	14010.6	14346.2	14841.0	15462.6	16004.7	16288.1	15984.7
65°	15248.8	15368.1	15445.2	15629.2	15838.0	16193.6	16710.7	17377.0	17958.8	18145.3	17794.7
67.5°	17004.1	17108.6	17242.8	17454.1	17665.5	18065.8	18545.6	19192.1	19831.1	20000.1	19455.7
70°	17772.4	17832.1	18040.9	18329.4	18734.5	19207.0	19761.5	20487.4	21278.1	21417.3	20726.2
72.5°	16233.3	16293.0	16526.8	17016.6	17722.6	18473.5	19440.7	20507.4	21551.6	21708.2	20756.0
75°	12277.6	12180.6	12526.2	13175.1	14127.4	15174.2	16526.8	18055.8	19565.0	19761.5	18625.2
77.5°	6345.1	6332.6	6593.8	7399.4	8535.7	9726.6	11215.9	12944.0	14420.8	15017.4	14092.6
80°	1787.7	1807.5	1931.9	2332.1	2996.0	3856.3	5019.9	6638.6	7846.9	8463.6	7946.3
82.5°	701.1	755.8	803.0	877.7	964.6	1091.5	1457.0	2168.1	2909.0	3475.9	2846.9
85°	251.1	268.6	380.4	450.0	457.5	482.4	549.5	641.5	773.2	922.4	758.4
87.5°	94.5	104.5	121.9	201.4	199.0	181.5	221.2	231.2	174.0	159.1	196.4
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°	3839.0	3839.0	3839.0	3839.0	3839.0	3839.0	3839.0	3839.0
2.5°	3829.0	3831.5	3831.5	3833.9	3836.4	3836.4	3841.4	3841.4
5°	3831.5	3831.5	3826.5	3829.0	3826.5	3826.5	3829.0	3829.0
7.5°	3826.5	3824.0	3819.0	3816.5	3811.6	3811.6	3811.6	3811.6
10°	3819.0	3816.5	3811.6	3809.1	3806.6	3806.6	3806.6	3806.6
12.5°	3839.0	3831.5	3826.5	3824.0	3824.0	3824.0	3824.0	3824.0
15°	3891.2	3873.7	3861.3	3861.3	3863.7	3868.8	3868.8	3873.7
17.5°	3955.7	3935.8	3923.5	3913.5	3918.5	3925.9	3930.9	3935.8
20°	4032.9	4022.9	4005.6	3995.5	3995.5	4005.6	4010.5	4013.0
22.5°	4139.8	4132.3	4124.9	4112.4	4112.4	4117.4	4127.4	4127.4
25°	4299.0	4293.9	4289.0	4279.0	4276.5	4276.5	4281.5	4286.5
27.5°	4497.7	4500.3	4495.4	4492.8	4485.3	4482.9	4490.3	4487.9
30°	4763.8	4776.3	4788.8	4778.8	4766.3	4758.9	4751.3	4741.5
32.5°	5124.4	5109.4	5099.4	5082.0	5059.7	5039.8	5025.0	5007.5
35°	5465.0	5440.1	5430.1	5445.1	5442.6	5430.1	5412.8	5397.9
37.5°	5882.7	5877.7	5882.7	5910.1	5905.0	5917.5	5882.7	5880.3
40°	6409.8	6414.7	6449.6	6482.0	6499.3	6516.7	6496.8	6476.9
42.5°	7021.4	7019.0	7031.4	7076.1	7106.0	7125.9	7083.6	7078.6
45°	7668.0	7650.5	7660.3	7697.8	7727.6	7750.0	7702.7	7702.7
47.5°	8379.0	8349.1	8316.9	8359.1	8376.5	8391.4	8354.1	8341.7
50°	9172.1	9109.9	9040.3	9057.7	9057.7	9052.7	9005.5	9003.1
52.5°	10082.1	9967.7	9841.0	9793.7	9766.3	9736.5	9654.4	9614.7
55°	11128.9	10957.3	10758.4	10636.6	10571.9	10489.9	10353.2	10315.8
57.5°	12352.2	12083.6	11740.6	11591.4	11447.1	11312.8	11161.2	11118.9
60°	13801.7	13406.3	12951.4	12675.3	12518.7	12389.5	12232.7	12225.3
62.5°	15417.8	14793.7	14279.1	14030.4	13916.1	13801.7	13652.5	13672.3
65°	17061.3	16409.8	15927.5	15726.1	15619.2	15524.7	15375.5	15397.9
67.5°	18682.4	18083.2	17553.6	17347.2	17227.9	17108.6	16974.3	16996.7
70°	19846.0	19102.6	18505.9	18048.3	17762.5	17439.2	17230.4	17178.2
72.5°	19512.8	18366.6	17419.3	16511.8	15979.7	15547.1	15253.6	15127.0
75°	16887.2	15320.9	14102.5	12988.6	12362.1	11852.5	11481.9	11250.8
77.5°	12541.1	10780.8	9341.2	8058.2	7043.8	6362.6	5882.7	5571.9
80°	6864.8	5221.3	3816.5	2682.8	1971.7	1638.5	1447.0	1355.1
82.5°	2138.2	1380.0	1016.8	877.7	815.5	780.7	723.6	631.5
85°	681.2	596.8	554.5	529.6	504.8	440.1	303.3	276.0
87.5°	263.6	271.0	268.6	253.6	258.6	186.5	149.1	131.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)