

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: P190847

Luminaire Tested: **GAN-AF-09-LED-U-5NQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190847
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-09-LED-U-5NQ-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45366.8 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

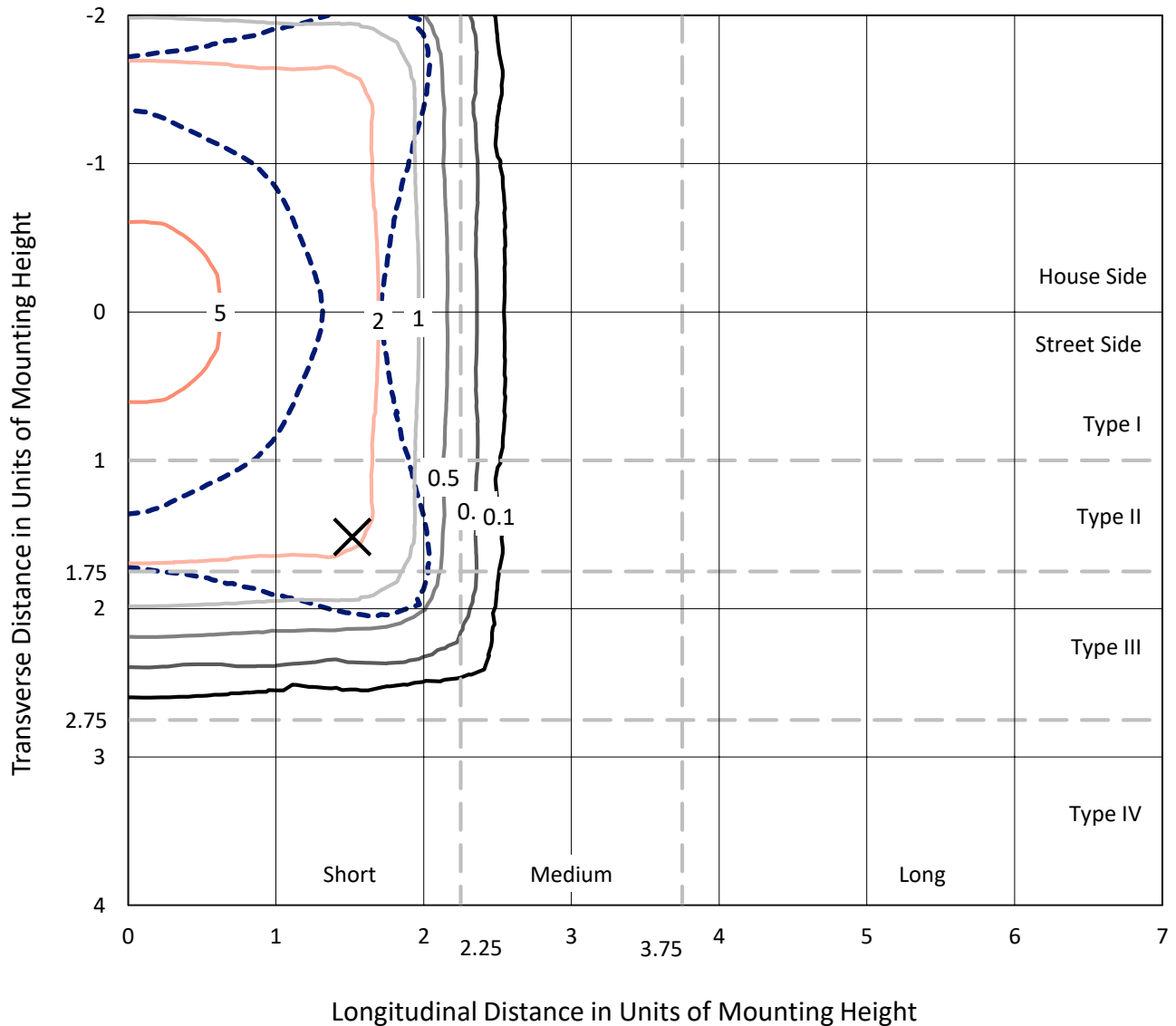
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

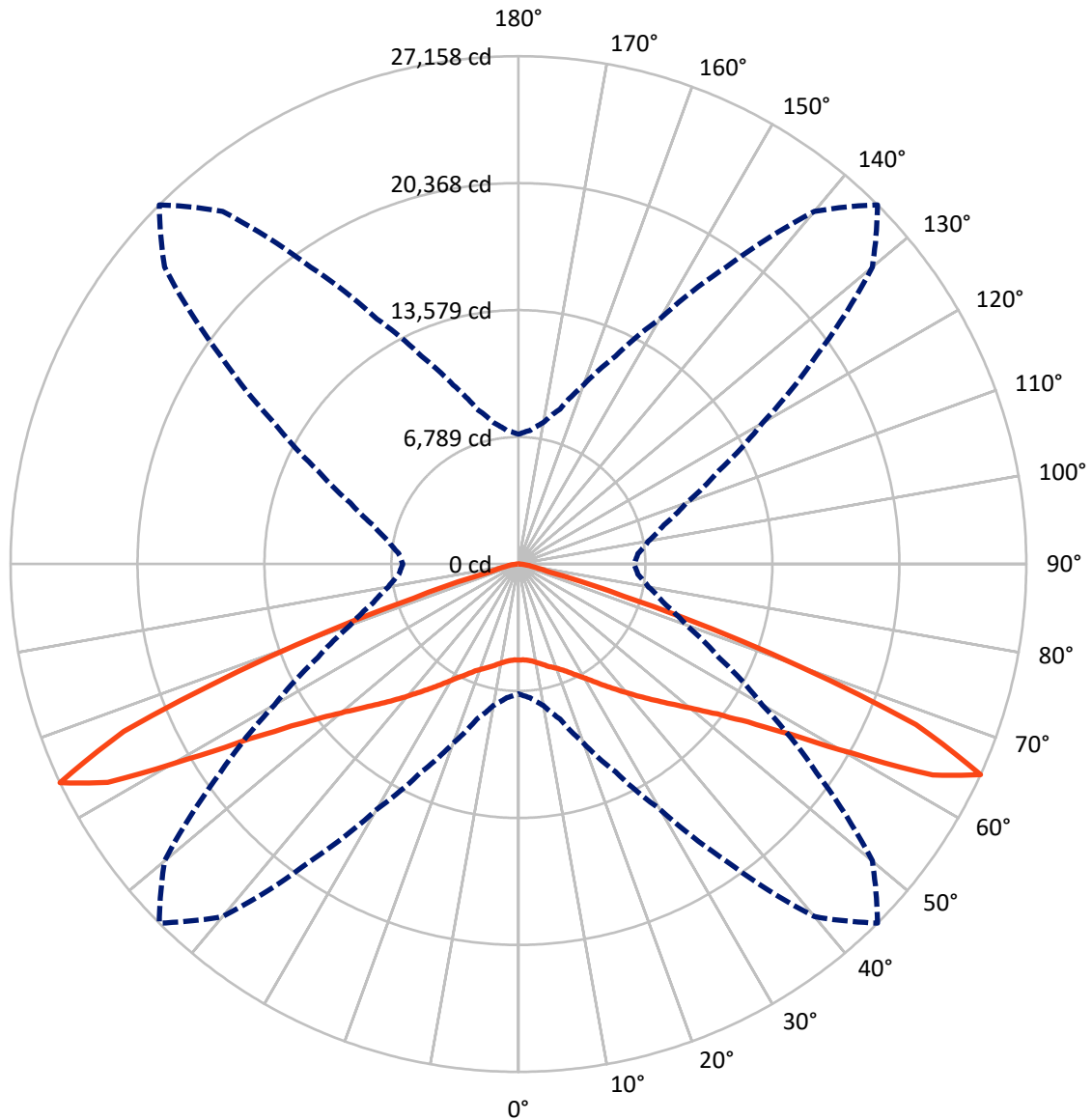
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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	22683.4	0.0	22683.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22683.4	0.0	22683.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	45366.8	0.0	45366.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.3	1.1
10°-20°	1604.6	3.5
20°-30°	3000.4	6.6
30°-40°	5074.5	11.2
40°-50°	8297.3	18.3
50°-60°	13194.1	29.1
60°-70°	11926.6	26.3
70°-80°	1509.3	3.3
80°-90°	259.6	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°	45366.8	100.0
0°-180°	45366.8	100.0



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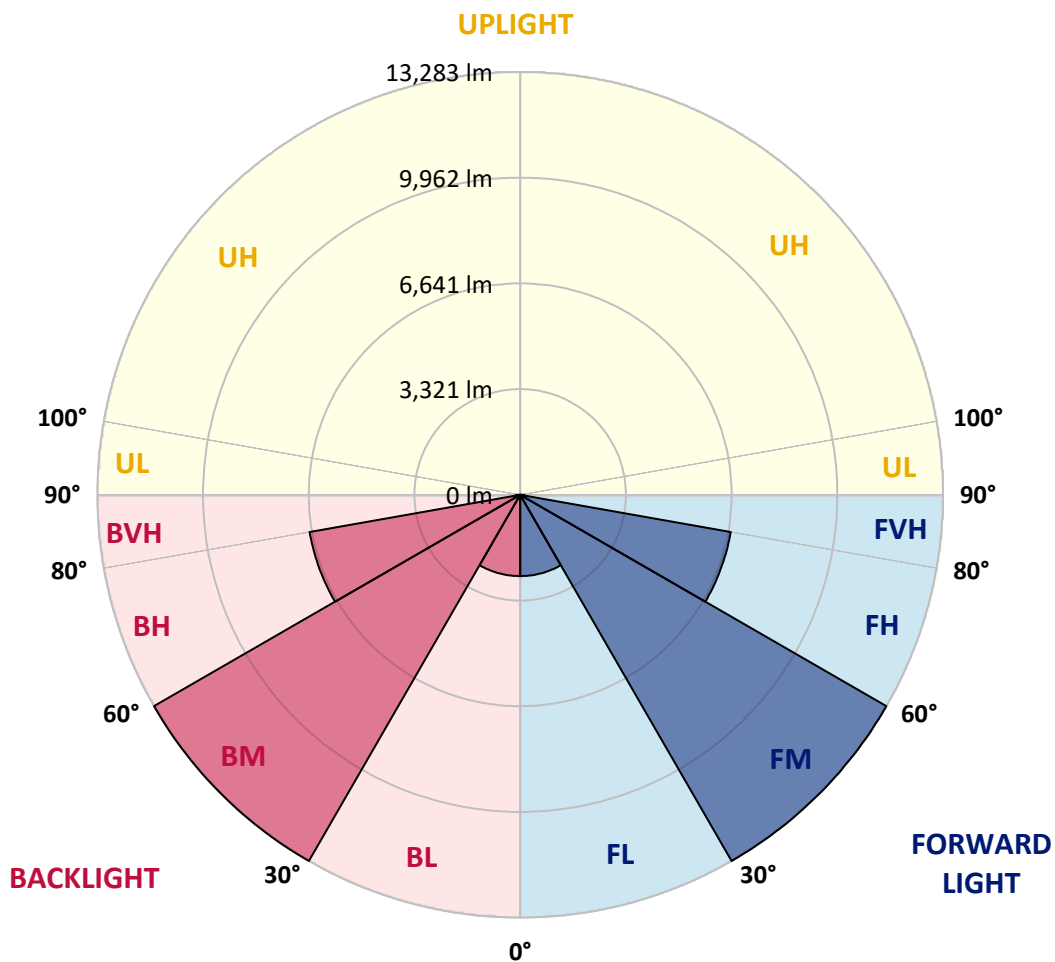
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2552.7	5.6			
FM	(30°-60°)	13282.9	29.3			
FH	(60°-80°)	6718.0	14.8			G3/7500
FVH	(80°-90°)	129.8	0.3			G2/225
BL	(0°-30°)	2552.7	5.6	B4/5000		
BM	(30°-60°)	13282.9	29.3	B5		
BH	(60°-80°)	6718.0	14.8	B5		G3/7500
BVH	(80°-90°)	129.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5133.3	5133.3	5133.3	5133.3	5133.3	5133.3	5133.3	5133.3	5133.3	5133.3	5133.3
2.5°	5137.6	5141.8	5146.1	5141.8	5146.1	5139.6	5135.4	5141.8	5135.4	5129.1	5133.3
5°	5182.2	5184.3	5184.3	5177.9	5184.3	5180.0	5173.7	5182.2	5175.8	5169.4	5173.7
7.5°	5256.5	5265.0	5258.7	5252.2	5256.5	5252.2	5248.0	5250.1	5248.0	5241.6	5243.7
10°	5356.4	5362.7	5358.5	5356.4	5360.7	5358.5	5354.2	5352.1	5354.2	5347.9	5347.9
12.5°	5477.5	5475.3	5473.2	5475.3	5481.7	5481.7	5479.6	5481.7	5486.0	5488.1	5483.8
15°	5596.5	5600.8	5600.8	5600.8	5613.4	5624.1	5630.4	5634.7	5643.2	5645.4	5636.9
17.5°	5745.2	5745.2	5743.1	5745.2	5758.0	5775.0	5781.3	5789.8	5798.3	5804.7	5794.1
20°	5910.9	5915.2	5915.2	5919.4	5936.4	5955.5	5955.5	5959.8	5955.5	5959.8	5953.4
22.5°	6112.7	6125.5	6125.5	6127.7	6144.7	6168.0	6161.6	6168.0	6157.3	6165.9	6157.3
25°	6376.3	6395.4	6391.1	6391.1	6403.9	6418.7	6420.9	6433.6	6431.5	6442.1	6435.7
27.5°	6673.7	6703.4	6711.9	6709.8	6718.3	6733.2	6737.5	6752.3	6743.8	6752.3	6748.1
30°	7030.6	7043.4	7060.4	7066.7	7077.4	7092.2	7092.2	7094.4	7083.7	7096.5	7102.9
32.5°	7400.3	7423.8	7440.7	7479.0	7498.1	7508.7	7506.6	7510.8	7500.2	7517.2	7529.9
35°	7889.0	7906.0	7933.6	7963.4	7988.8	7986.8	7980.3	7982.5	7982.5	7997.4	8010.1
37.5°	8477.6	8481.8	8517.9	8560.5	8573.1	8560.5	8522.2	8513.7	8494.6	8513.7	8534.9
40°	9100.1	9115.0	9187.2	9214.8	9221.2	9197.9	9142.6	9110.7	9068.3	9091.6	9121.3
42.5°	9752.4	9782.2	9848.0	9896.8	9918.1	9903.3	9826.8	9777.9	9722.6	9735.4	9765.1
45°	10474.8	10510.9	10604.4	10651.2	10691.5	10668.1	10593.8	10519.4	10432.3	10438.7	10485.5
47.5°	11282.1	11318.3	11439.4	11518.0	11539.3	11535.0	11452.1	11350.2	11231.2	11226.9	11267.3
50°	12187.3	12223.4	12374.2	12495.3	12557.0	12550.6	12452.9	12308.5	12163.9	12166.1	12217.0
52.5°	13071.2	13115.8	13273.0	13481.3	13602.4	13689.4	13630.0	13493.9	13317.6	13321.9	13368.6
55°	13899.9	13974.1	14154.8	14437.3	14662.6	14907.0	14977.0	14972.8	14866.5	14896.3	14943.1
57.5°	14301.4	14411.8	14690.2	15136.4	15595.3	16092.6	16513.2	16827.6	16961.5	17163.4	17116.6
60°	13540.7	13717.1	14127.2	14783.7	15690.9	16727.8	17839.0	18924.7	19851.1	20550.2	20148.6
62.5°	11086.7	11316.2	11813.3	12654.7	14027.3	15686.6	17813.5	20380.1	23176.3	24863.2	23658.6
65°	6937.1	7175.1	7680.8	8581.6	10188.0	12251.1	15136.4	19390.0	24614.7	27157.9	24706.0
67.5°	2704.8	2834.4	3108.4	3684.3	4891.0	6726.8	9622.8	14450.1	20698.9	22927.7	20314.3
70°	1355.5	1368.3	1419.3	1525.5	1784.7	2318.0	3527.0	6699.2	11870.7	14337.5	11443.6
72.5°	979.5	981.6	1007.1	1053.8	1136.7	1255.7	1485.1	2050.3	3860.6	5900.3	3618.4
75°	750.0	758.5	773.4	798.9	843.5	903.0	985.8	1181.3	1463.9	1697.6	1427.8
77.5°	578.0	594.9	605.6	628.9	656.5	696.9	720.3	794.6	924.2	973.1	958.2
80°	439.8	454.7	478.0	497.2	516.3	535.4	526.9	560.9	628.9	669.3	648.0
82.5°	280.5	297.5	365.4	382.5	391.0	403.7	388.8	391.0	420.7	446.2	420.7
85°	180.6	191.2	231.6	252.9	254.9	263.5	257.1	242.2	242.2	221.0	248.6
87.5°	82.9	85.0	104.1	123.3	127.5	114.8	112.6	108.3	87.2	82.9	89.2
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°	5133.3	5133.3	5133.3	5133.3	5133.3	5133.3	5133.3	5133.3
2.5°	5131.1	5135.4	5137.6	5143.9	5146.1	5146.1	5148.2	5152.4
5°	5171.5	5177.9	5180.0	5188.5	5190.7	5188.5	5192.8	5194.9
7.5°	5243.7	5254.4	5258.7	5267.2	5260.7	5269.2	5271.4	5271.4
10°	5350.0	5360.7	5362.7	5371.2	5367.0	5371.2	5371.2	5367.0
12.5°	5490.3	5492.3	5486.0	5492.3	5483.8	5488.1	5481.7	5477.5
15°	5645.4	5638.9	5624.1	5624.1	5611.3	5613.4	5611.3	5609.2
17.5°	5796.1	5783.5	5772.8	5768.5	5758.0	5755.8	5749.5	5749.5
20°	5962.0	5955.5	5949.2	5940.7	5930.0	5919.4	5917.3	5921.6
22.5°	6161.6	6159.5	6159.5	6155.3	6140.4	6129.7	6123.4	6123.4
25°	6429.3	6410.2	6410.2	6408.1	6401.7	6395.4	6382.6	6388.9
27.5°	6731.0	6720.5	6729.0	6726.8	6720.5	6720.5	6711.9	6711.9
30°	7102.9	7098.7	7111.3	7100.7	7079.5	7077.4	7068.9	7058.3
32.5°	7532.1	7527.8	7546.9	7534.2	7500.2	7481.0	7464.1	7455.6
35°	8010.1	8012.3	8035.6	8027.1	7988.8	7976.2	7946.4	7942.2
37.5°	8532.8	8566.8	8607.2	8615.7	8583.8	8575.3	8543.5	8526.4
40°	9146.8	9191.4	9253.1	9267.9	9234.0	9227.6	9182.9	9159.6
42.5°	9801.3	9877.7	9954.2	9967.0	9933.0	9899.0	9856.5	9839.5
45°	10532.2	10623.5	10723.4	10748.9	10697.9	10657.5	10602.3	10602.3
47.5°	11352.3	11467.1	11579.6	11649.8	11603.0	11560.5	11494.7	11452.1
50°	12321.1	12478.4	12625.0	12697.3	12622.9	12542.1	12427.4	12389.2
52.5°	13536.5	13706.4	13834.0	13795.7	13680.9	13568.3	13443.0	13392.0
55°	15087.5	15144.9	15144.9	15000.4	14770.9	14581.9	14384.2	14318.3
57.5°	17027.3	16806.4	16466.4	16035.2	15493.3	15021.6	14703.0	14552.1
60°	19307.2	18244.8	17044.4	15865.1	14896.3	14097.4	13623.6	13406.9
62.5°	20826.4	18047.2	15642.0	13749.0	12355.2	11392.7	10738.2	10483.3
65°	19464.4	15051.4	11830.3	9565.4	8046.2	7066.7	6418.7	6180.8
67.5°	14256.8	9431.6	6299.7	4515.0	3308.1	2638.9	2373.2	2262.8
70°	6399.6	3320.9	2035.5	1589.3	1370.4	1257.8	1208.9	1191.9
72.5°	1929.2	1395.9	1177.1	1062.3	975.3	920.0	879.6	875.3
75°	1164.3	968.8	860.5	792.5	737.2	692.6	671.4	665.0
77.5°	813.8	711.8	660.8	611.9	569.4	535.4	516.3	501.5
80°	571.5	522.7	499.3	471.7	444.1	412.1	384.5	371.8
82.5°	382.5	371.8	371.8	354.9	331.4	301.7	246.4	233.7
85°	246.4	244.4	248.6	242.2	225.3	193.3	159.4	150.9
87.5°	114.8	116.8	129.6	127.5	123.3	102.0	80.7	76.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)