

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: P190836

Luminaire Tested: **GAN-AF-08-LED-U-5NQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190836
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-08-LED-U-5NQ-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 33166.1 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G2

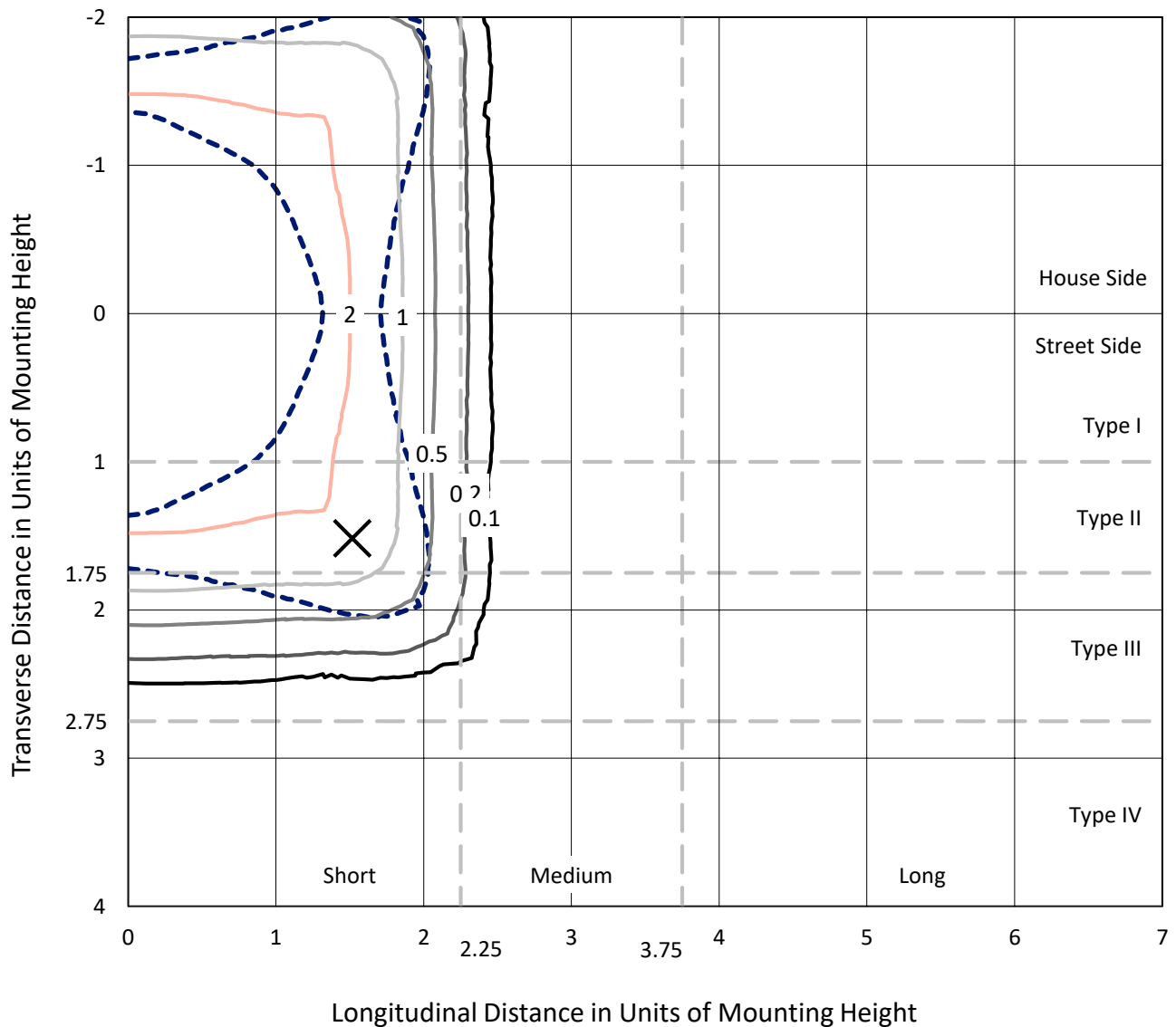
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

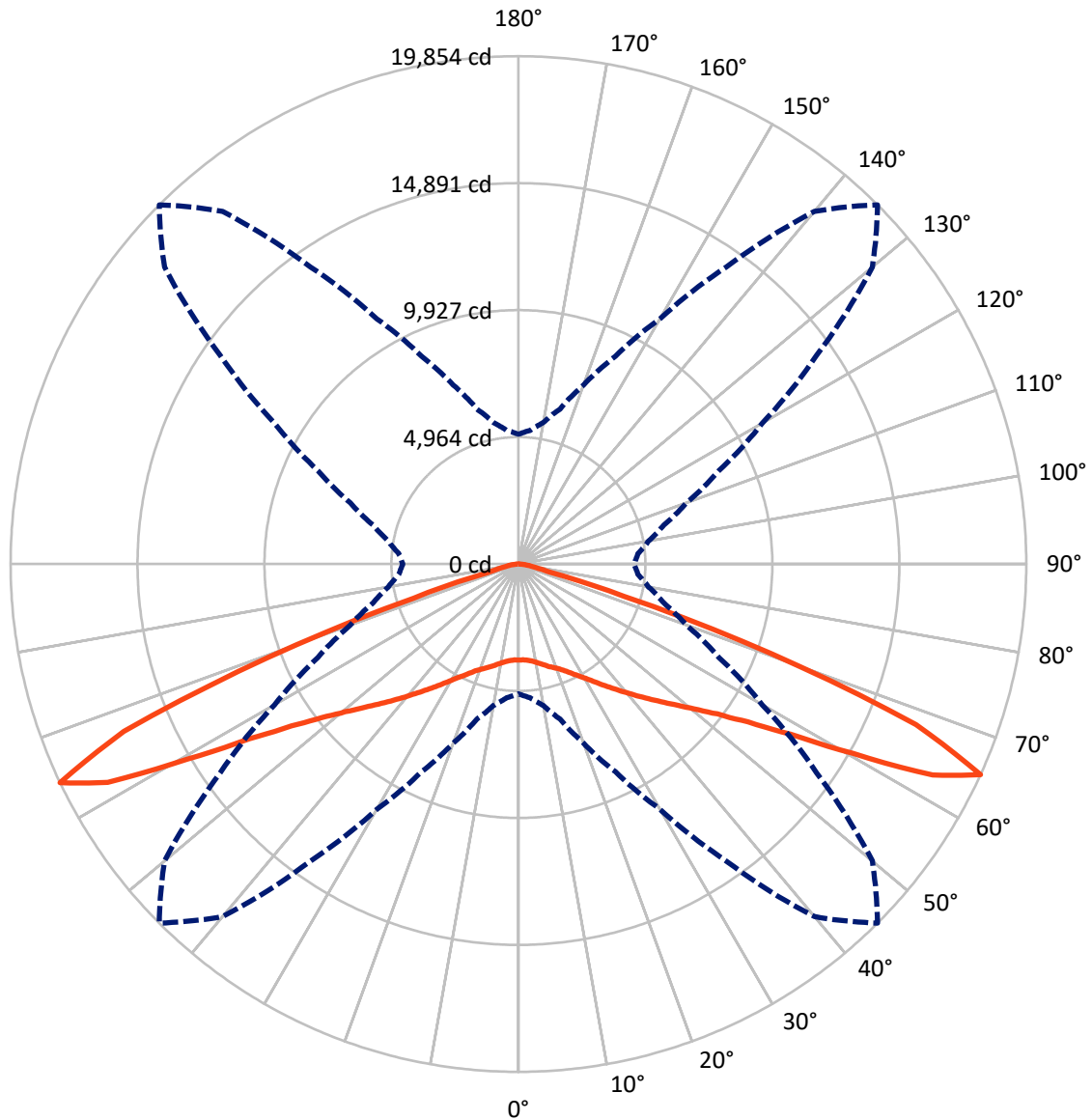
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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	16583.1	0.0	16583.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16583.1	0.0	16583.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	33166.1	0.0	33166.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.8	1.1
10°-20°	1173.1	3.5
20°-30°	2193.5	6.6
30°-40°	3709.8	11.2
40°-50°	6065.9	18.3
50°-60°	9645.7	29.1
60°-70°	8719.1	26.3
70°-80°	1103.4	3.3
80°-90°	189.8	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°	33166.1	100.0
0°-180°	33166.1	100.0

Coefficient of Utilization



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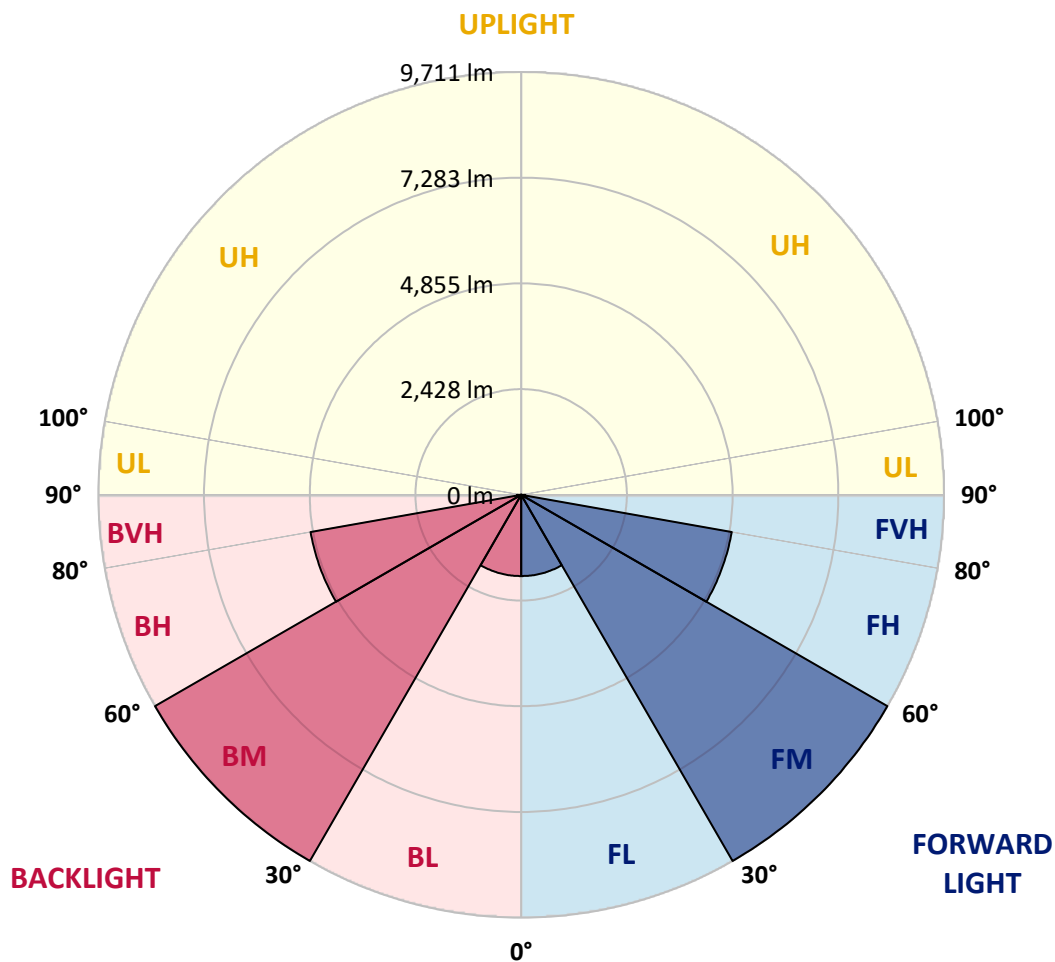
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1866.2	5.6			
FM	(30°-60°)	9710.7	29.3			
FH	(60°-80°)	4911.3	14.8			G2/5000
FVH	(80°-90°)	94.9	0.3			G1/100
BL	(0°-30°)	1866.2	5.6	B3/2500		
BM	(30°-60°)	9710.7	29.3	B5		
BH	(60°-80°)	4911.3	14.8	B4/5000		G2/5000
BVH	(80°-90°)	94.9	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°	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8
2.5°	3755.9	3758.9	3762.1	3758.9	3762.1	3757.4	3754.3	3758.9	3754.3	3749.6	3752.8
5°	3788.5	3790.0	3790.0	3785.4	3790.0	3787.0	3782.3	3788.5	3783.8	3779.2	3782.3
7.5°	3842.8	3849.1	3844.5	3839.7	3842.8	3839.7	3836.7	3838.2	3836.7	3832.0	3833.5
10°	3915.9	3920.6	3917.4	3915.9	3918.9	3917.4	3914.3	3912.8	3914.3	3909.6	3909.6
12.5°	4004.4	4002.8	4001.3	4002.8	4007.5	4007.5	4006.0	4007.5	4010.6	4012.1	4009.0
15°	4091.4	4094.5	4094.5	4094.5	4103.8	4111.5	4116.3	4119.3	4125.6	4127.1	4120.9
17.5°	4200.1	4200.1	4198.6	4200.1	4209.4	4221.8	4226.5	4232.8	4238.9	4243.6	4235.8
20°	4321.3	4324.4	4324.4	4327.5	4339.9	4353.9	4353.9	4357.0	4353.9	4357.0	4352.3
22.5°	4468.9	4478.2	4478.2	4479.7	4492.1	4509.3	4504.6	4509.3	4501.5	4507.6	4501.5
25°	4661.5	4675.4	4672.3	4672.3	4681.6	4692.5	4694.0	4703.4	4701.8	4709.6	4705.0
27.5°	4878.9	4900.7	4906.9	4905.4	4911.5	4922.4	4925.5	4936.4	4930.1	4936.4	4933.3
30°	5139.8	5149.2	5161.6	5166.3	5174.0	5184.9	5184.9	5186.5	5178.7	5188.0	5192.7
32.5°	5410.1	5427.3	5439.6	5467.6	5481.6	5489.4	5487.8	5490.9	5483.1	5495.6	5504.9
35°	5767.4	5779.8	5800.0	5821.7	5840.4	5838.8	5834.2	5835.7	5835.7	5846.6	5855.9
37.5°	6197.6	6200.7	6227.2	6258.2	6267.5	6258.2	6230.3	6224.0	6210.0	6224.0	6239.6
40°	6652.8	6663.6	6716.5	6736.6	6741.3	6724.3	6683.9	6660.5	6629.4	6646.5	6668.3
42.5°	7129.7	7151.3	7199.5	7235.2	7250.8	7239.9	7184.0	7148.3	7107.9	7117.2	7139.0
45°	7657.7	7684.2	7752.5	7786.7	7816.2	7799.1	7744.8	7690.3	7626.7	7631.3	7665.5
47.5°	8248.1	8274.4	8362.9	8420.4	8436.0	8432.8	8372.2	8297.7	8210.7	8207.6	8237.1
50°	8909.7	8936.1	9046.4	9135.0	9180.0	9175.4	9103.9	8998.3	8892.6	8894.1	8931.5
52.5°	9555.9	9588.5	9703.4	9855.6	9944.2	10007.9	9964.4	9865.0	9736.0	9739.2	9773.4
55°	10161.7	10216.0	10348.1	10554.6	10719.3	10897.9	10949.2	10946.1	10868.4	10890.1	10924.3
57.5°	10455.3	10536.0	10739.4	11065.7	11401.2	11764.7	12072.3	12302.1	12400.0	12547.5	12513.3
60°	9899.2	10028.1	10327.9	10807.9	11471.1	12229.1	13041.5	13835.2	14512.4	15023.5	14729.9
62.5°	8105.1	8272.8	8636.4	9251.5	10254.9	11468.0	13022.9	14899.2	16943.3	18176.7	17296.0
65°	5071.5	5245.5	5615.2	6273.8	7448.1	8956.3	11065.7	14175.3	17994.9	19854.2	18061.7
67.5°	1977.4	2072.1	2272.5	2693.4	3575.7	4917.7	7034.8	10564.0	15132.2	16761.7	14851.1
70°	991.0	1000.3	1037.6	1115.2	1304.8	1694.6	2578.4	4897.6	8678.3	10481.7	8366.1
72.5°	716.1	717.6	736.2	770.4	831.0	918.0	1085.8	1498.9	2822.3	4313.5	2645.2
75°	548.3	554.5	565.4	584.0	616.6	660.1	720.8	863.7	1070.2	1241.0	1043.8
77.5°	422.5	435.0	442.7	459.8	480.0	509.5	526.6	580.9	675.7	711.4	700.5
80°	321.5	332.4	349.5	363.5	377.5	391.4	385.2	410.1	459.8	489.3	473.7
82.5°	205.0	217.5	267.2	279.6	285.8	295.1	284.3	285.8	307.6	326.2	307.6
85°	132.1	139.8	169.3	184.8	186.4	192.6	187.9	177.1	177.1	161.5	181.8
87.5°	60.6	62.1	76.1	90.1	93.2	83.9	82.3	79.2	63.7	60.6	65.3
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°	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8
2.5°	3751.2	3754.3	3755.9	3760.6	3762.1	3762.1	3763.6	3766.7
5°	3780.7	3785.4	3787.0	3793.1	3794.7	3793.1	3796.3	3797.8
7.5°	3833.5	3841.3	3844.5	3850.6	3846.0	3852.1	3853.8	3853.8
10°	3911.2	3918.9	3920.6	3926.7	3923.6	3926.7	3926.7	3923.6
12.5°	4013.8	4015.3	4010.6	4015.3	4009.0	4012.1	4007.5	4004.4
15°	4127.1	4122.5	4111.5	4111.5	4102.2	4103.8	4102.2	4100.7
17.5°	4237.4	4228.1	4220.3	4217.2	4209.4	4207.9	4203.2	4203.2
20°	4358.6	4353.9	4349.3	4343.0	4335.3	4327.5	4326.0	4329.0
22.5°	4504.6	4503.0	4503.0	4499.9	4489.0	4481.2	4476.6	4476.6
25°	4700.3	4686.3	4686.3	4684.7	4680.1	4675.4	4666.1	4670.8
27.5°	4920.8	4913.0	4919.3	4917.7	4913.0	4913.0	4906.9	4906.9
30°	5192.7	5189.5	5198.8	5191.1	5175.6	5174.0	5167.8	5160.1
32.5°	5506.4	5503.4	5517.3	5508.0	5483.1	5469.2	5456.7	5450.5
35°	5855.9	5857.5	5874.6	5868.4	5840.4	5831.0	5809.3	5806.3
37.5°	6238.1	6262.9	6292.4	6298.6	6275.3	6269.1	6245.8	6233.4
40°	6686.9	6719.6	6764.6	6775.5	6750.7	6746.0	6713.3	6696.2
42.5°	7165.4	7221.3	7277.2	7286.5	7261.6	7236.8	7205.8	7193.3
45°	7699.6	7766.4	7839.5	7858.1	7820.9	7791.3	7750.9	7750.9
47.5°	8299.3	8383.2	8465.4	8516.7	8482.5	8451.5	8403.3	8372.2
50°	9007.6	9122.5	9229.7	9282.5	9228.1	9169.1	9085.2	9057.3
52.5°	9896.0	10020.3	10113.5	10085.6	10001.7	9919.3	9827.7	9790.5
55°	11030.0	11071.9	11071.9	10966.2	10798.5	10660.3	10515.8	10467.7
57.5°	12448.1	12286.6	12038.1	11722.7	11326.6	10981.8	10748.8	10638.5
60°	14114.8	13338.2	12460.6	11598.4	10890.1	10306.1	9959.8	9801.3
62.5°	15225.4	13193.7	11435.4	10051.4	9032.5	8328.8	7850.3	7663.9
65°	14229.8	11003.6	8648.7	6992.9	5882.4	5166.3	4692.5	4518.6
67.5°	10422.6	6895.1	4605.5	3300.8	2418.5	1929.2	1735.0	1654.2
70°	4678.6	2427.8	1488.1	1161.9	1001.9	919.5	883.8	871.3
72.5°	1410.3	1020.5	860.5	776.6	713.0	672.6	643.0	640.0
75°	851.2	708.3	629.1	579.4	539.0	506.4	490.8	486.2
77.5°	594.9	520.4	483.0	447.3	416.2	391.4	377.5	366.6
80°	417.9	382.1	365.0	344.8	324.7	301.4	281.1	271.8
82.5°	279.6	271.8	271.8	259.4	242.3	220.5	180.1	170.8
85°	180.1	178.6	181.8	177.1	164.7	141.4	116.5	110.3
87.5°	83.9	85.4	94.7	93.2	90.1	74.6	59.0	56.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)