

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: P192587

Luminaire Tested: **GAN-AF-09-LED-U-5NQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192587
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 42893 lumens
Efficiency: N/A
Efficacy: 114.7 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

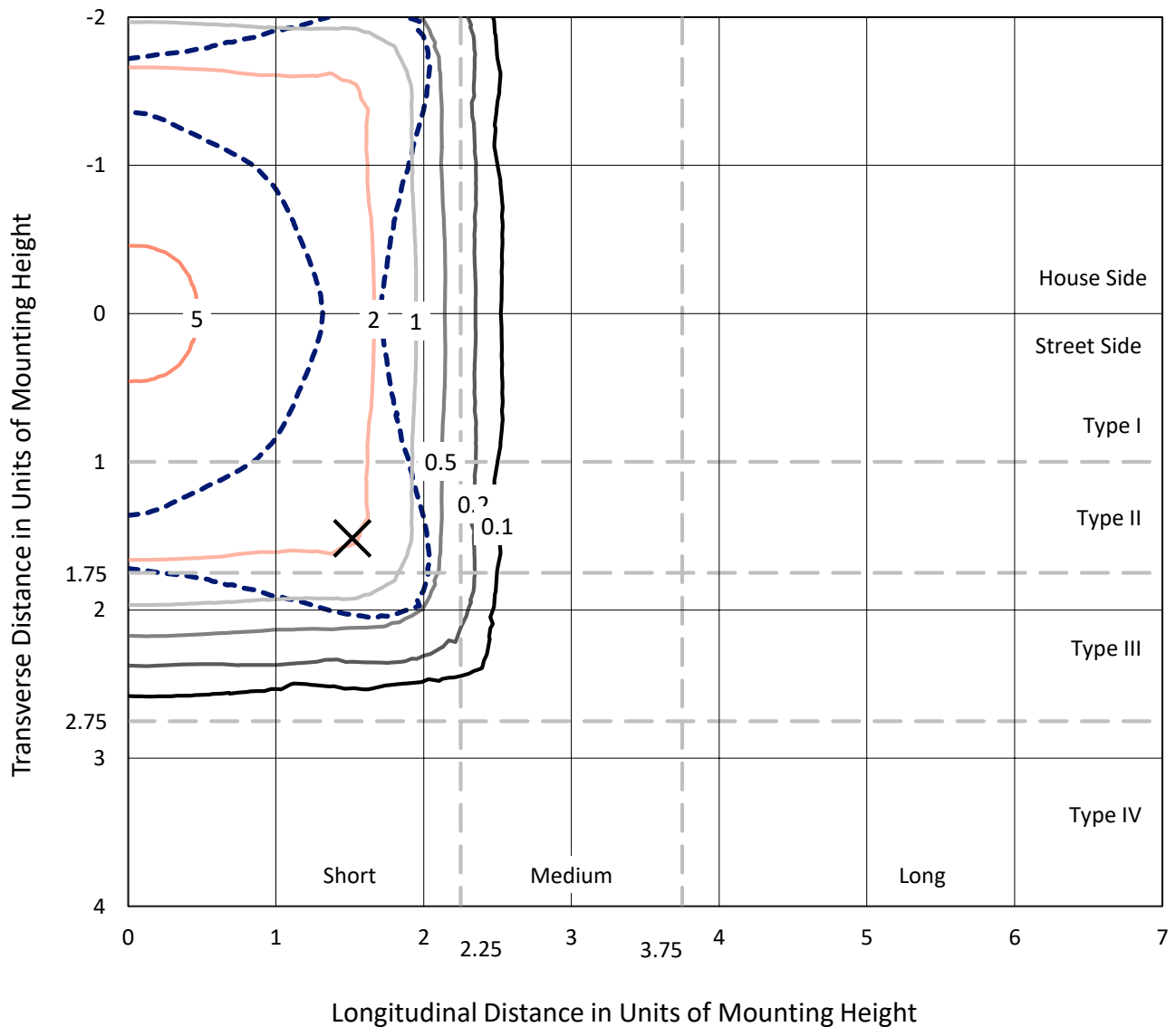


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

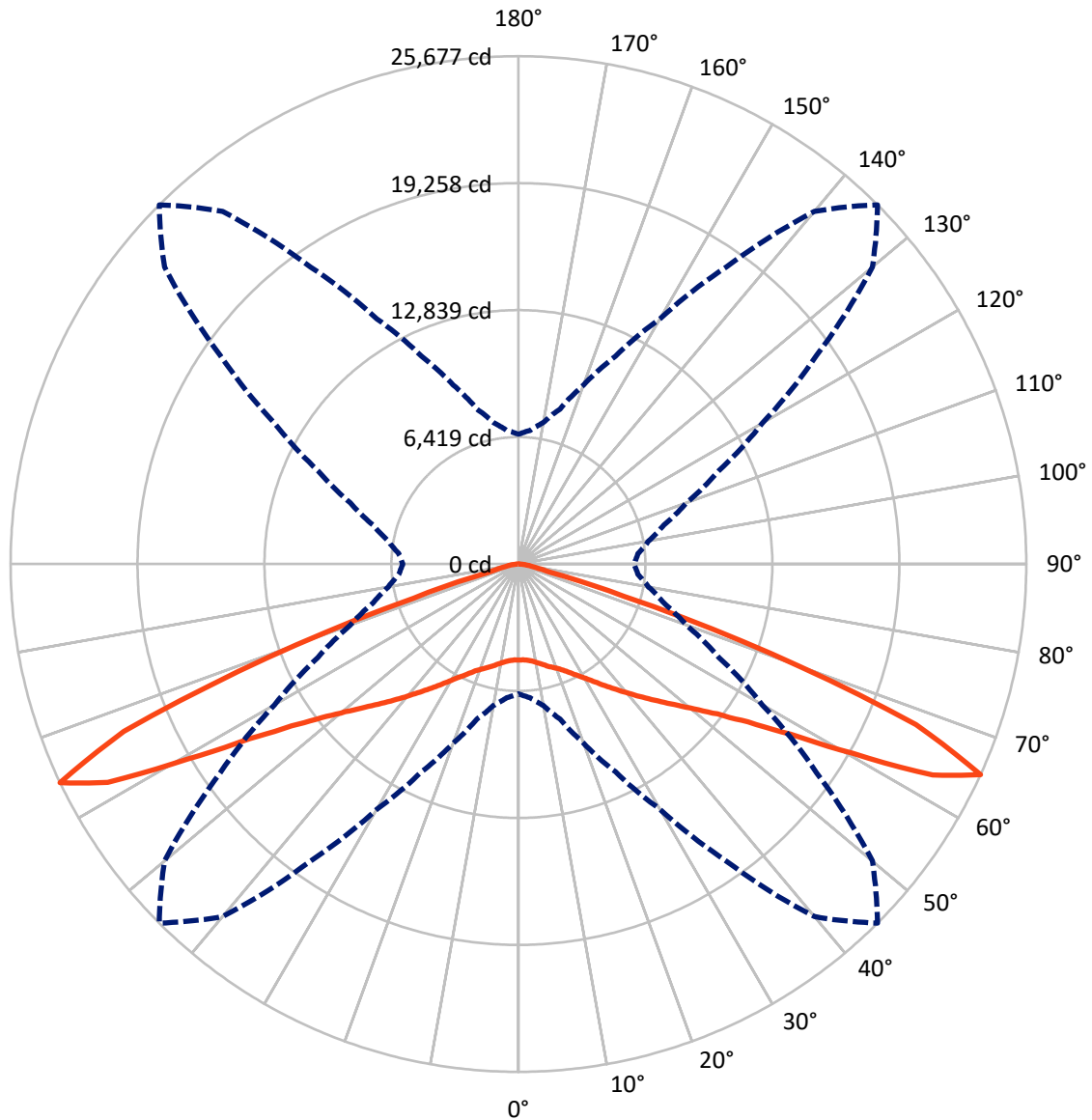


Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Full Cutoff

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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	21446.5	0.0	21446.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21446.5	0.0	21446.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	42893.0	0.0	42893.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.0	1.1
10°-20°	1517.1	3.5
20°-30°	2836.8	6.6
30°-40°	4797.8	11.2
40°-50°	7844.9	18.3
50°-60°	12474.6	29.1
60°-70°	11276.2	26.3
70°-80°	1427.1	3.3
80°-90°	245.5	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°	42893.0	100.0
0°-180°	42893.0	100.0



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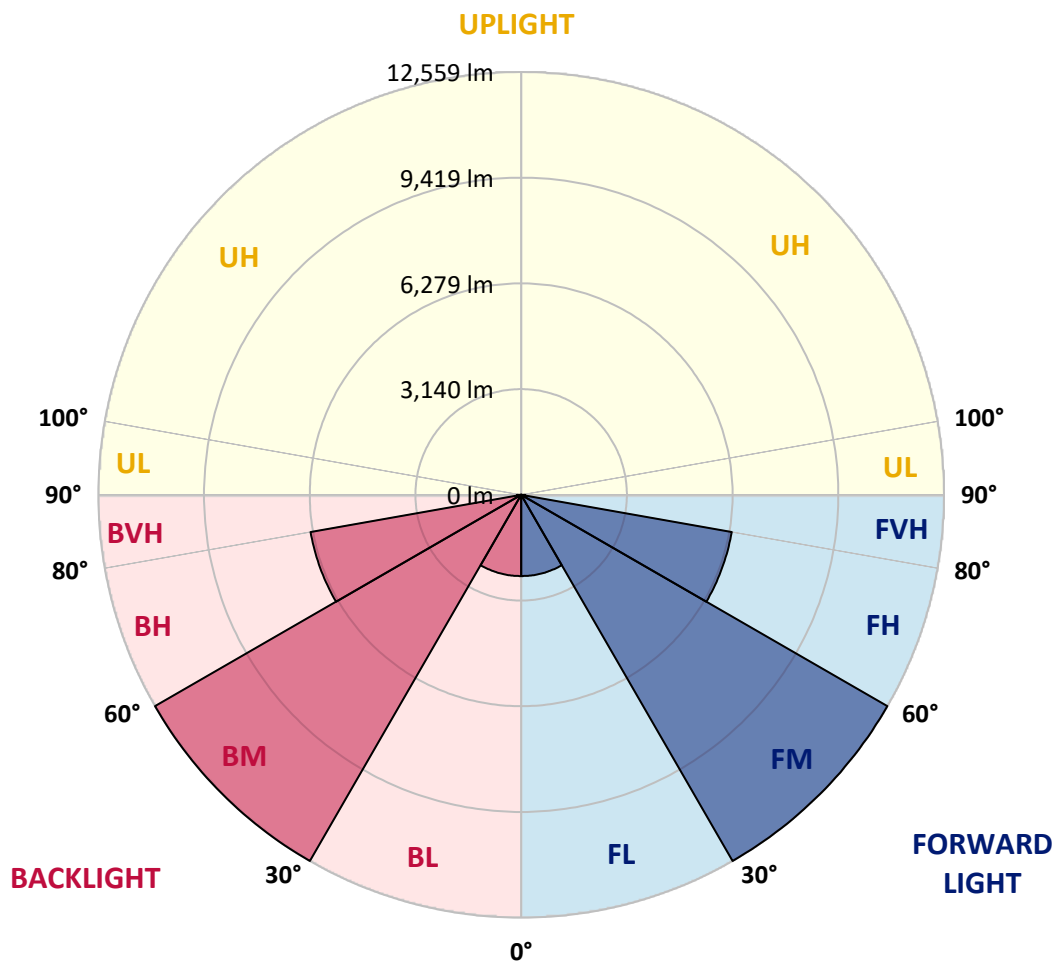
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2413.5	5.6			
FM	(30°-60°)	12558.6	29.3			
FH	(60°-80°)	6351.6	14.8			G3/7500
FVH	(80°-90°)	122.7	0.3			G2/225
BL	(0°-30°)	2413.5	5.6	B3/2500		
BM	(30°-60°)	12558.6	29.3	B5		
BH	(60°-80°)	6351.6	14.8	B5		G3/7500
BVH	(80°-90°)	122.7	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°	4853.4	4853.4	4853.4	4853.4	4853.4	4853.4	4853.4	4853.4	4853.4	4853.4	4853.4
2.5°	4857.3	4861.4	4865.5	4861.4	4865.5	4859.5	4855.4	4861.4	4855.4	4849.4	4853.4
5°	4899.6	4901.6	4901.6	4895.6	4901.6	4897.5	4891.5	4899.6	4893.5	4887.5	4891.5
7.5°	4969.8	4978.0	4971.9	4965.9	4969.8	4965.9	4961.8	4963.8	4961.8	4955.8	4957.8
10°	5064.2	5070.2	5066.4	5064.2	5068.3	5066.4	5062.3	5060.3	5062.3	5056.3	5056.3
12.5°	5178.8	5176.8	5174.7	5176.8	5182.8	5182.8	5180.8	5182.8	5186.9	5188.8	5184.8
15°	5291.3	5295.4	5295.4	5295.4	5307.4	5317.4	5323.4	5327.5	5335.4	5337.6	5329.4
17.5°	5432.0	5432.0	5429.8	5432.0	5444.0	5460.0	5466.0	5474.1	5482.1	5488.2	5478.2
20°	5588.6	5592.7	5592.7	5596.6	5612.7	5630.7	5630.7	5634.8	5630.7	5634.8	5628.8
22.5°	5779.5	5791.5	5791.5	5793.5	5809.6	5831.7	5825.6	5831.7	5821.7	5829.6	5821.7
25°	6028.5	6046.6	6042.6	6042.6	6054.6	6068.7	6070.8	6082.8	6080.8	6090.7	6084.7
27.5°	6309.8	6337.9	6345.9	6343.9	6352.0	6366.0	6370.1	6384.1	6376.1	6384.1	6380.0
30°	6647.3	6659.4	6675.4	6681.4	6691.5	6705.6	6705.6	6707.5	6697.5	6709.5	6715.5
32.5°	6996.9	7019.0	7034.9	7071.2	7089.2	7099.2	7097.3	7101.3	7091.3	7107.4	7119.4
35°	7458.8	7474.9	7500.9	7529.2	7553.2	7551.2	7545.2	7547.2	7547.2	7561.3	7573.3
37.5°	8015.3	8019.3	8053.5	8093.6	8105.7	8093.6	8057.5	8049.4	8031.3	8049.4	8069.6
40°	8603.8	8618.0	8686.2	8712.4	8718.4	8696.3	8644.0	8613.9	8573.8	8595.9	8624.0
42.5°	9220.6	9248.7	9311.0	9357.2	9377.2	9363.2	9290.9	9244.7	9192.4	9204.5	9232.6
45°	9903.6	9937.7	10026.1	10070.3	10108.4	10086.4	10016.2	9945.8	9863.4	9869.5	9913.6
47.5°	10667.0	10701.1	10815.6	10890.0	10910.1	10906.0	10827.7	10731.2	10618.8	10614.7	10652.9
50°	11522.7	11556.9	11699.5	11813.9	11872.2	11866.2	11773.8	11637.2	11500.6	11502.6	11550.9
52.5°	12358.5	12400.6	12549.3	12746.0	12860.6	12943.0	12886.7	12758.2	12591.5	12595.4	12639.6
55°	13141.8	13212.1	13382.9	13650.1	13863.1	14094.0	14160.3	14156.2	14055.8	14083.9	14128.2
57.5°	13521.5	13625.9	13889.1	14311.0	14744.9	15215.0	15612.7	15910.0	16036.6	16227.4	16183.3
60°	12802.4	12969.1	13356.8	13977.5	14835.3	15815.6	16866.3	17892.8	18768.7	19429.6	19049.9
62.5°	10482.2	10699.1	11169.1	11964.7	13262.4	14831.3	16842.1	19268.9	21912.5	23507.4	22368.4
65°	6558.9	6783.9	7261.9	8113.7	9632.4	11583.0	14311.0	18332.7	23272.4	25677.0	23358.9
67.5°	2557.2	2679.8	2939.0	3483.3	4624.4	6360.0	9098.0	13662.1	19570.2	21677.5	19206.5
70°	1281.6	1293.7	1341.9	1442.3	1687.4	2191.6	3334.7	6333.9	11223.4	13555.7	10819.6
72.5°	926.1	928.0	952.2	996.3	1074.8	1187.2	1404.2	1938.6	3650.1	5578.6	3421.0
75°	709.1	717.2	731.3	755.3	797.5	853.8	932.1	1116.9	1384.1	1605.0	1349.9
77.5°	546.4	562.4	572.5	594.6	620.7	659.0	681.0	751.2	873.8	920.1	906.0
80°	415.8	429.9	452.0	470.1	488.2	506.2	498.2	530.4	594.6	632.8	612.7
82.5°	265.2	281.3	345.5	361.5	369.7	381.7	367.6	369.7	397.7	421.8	397.7
85°	170.8	180.9	218.9	239.1	241.0	249.1	243.1	229.0	229.0	208.9	235.0
87.5°	78.3	80.3	98.5	116.5	120.5	108.5	106.4	102.4	82.4	78.3	84.3
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°	4853.4	4853.4	4853.4	4853.4	4853.4	4853.4	4853.4	4853.4
2.5°	4851.3	4855.4	4857.3	4863.4	4865.5	4865.5	4867.4	4871.5
5°	4889.6	4895.6	4897.5	4905.6	4907.6	4905.6	4909.6	4911.6
7.5°	4957.8	4967.9	4971.9	4979.9	4973.9	4981.9	4984.0	4984.0
10°	5058.2	5068.3	5070.2	5078.4	5074.3	5078.4	5078.4	5074.3
12.5°	5190.8	5192.9	5186.9	5192.9	5184.8	5188.8	5182.8	5178.8
15°	5337.6	5331.6	5317.4	5317.4	5305.3	5307.4	5305.3	5303.3
17.5°	5480.1	5468.1	5458.0	5454.0	5444.0	5441.9	5435.9	5435.9
20°	5636.8	5630.7	5624.7	5616.7	5606.6	5596.6	5594.6	5598.7
22.5°	5825.6	5823.6	5823.6	5819.5	5805.6	5795.5	5789.5	5789.5
25°	6078.7	6060.7	6060.7	6058.7	6052.6	6046.6	6034.6	6040.6
27.5°	6364.1	6354.0	6362.0	6360.0	6354.0	6354.0	6345.9	6345.9
30°	6715.5	6711.6	6723.6	6713.6	6693.4	6691.5	6683.4	6673.3
32.5°	7121.3	7117.3	7135.4	7123.3	7091.3	7073.1	7057.0	7049.1
35°	7573.3	7575.4	7597.5	7589.3	7553.2	7541.2	7513.1	7509.1
37.5°	8067.4	8099.6	8137.8	8145.9	8115.8	8107.7	8077.5	8061.4
40°	8648.1	8690.3	8748.5	8762.6	8730.5	8724.5	8682.2	8660.1
42.5°	9266.9	9339.2	9411.5	9423.5	9391.4	9359.1	9319.0	9303.0
45°	9957.9	10044.2	10138.6	10162.8	10114.5	10076.3	10024.1	10024.1
47.5°	10733.3	10841.7	10948.3	11014.5	10970.2	10930.1	10867.8	10827.7
50°	11649.3	11798.0	11936.6	12004.9	11934.5	11858.2	11749.7	11713.5
52.5°	12798.3	12959.0	13079.5	13043.4	12934.9	12828.4	12709.9	12661.7
55°	14264.8	14319.1	14319.1	14182.4	13965.5	13786.7	13599.8	13537.6
57.5°	16099.0	15889.9	15568.6	15160.7	14648.5	14202.5	13901.2	13758.6
60°	18254.4	17250.0	16114.9	14999.9	14083.9	13328.6	12880.7	12675.8
62.5°	19690.7	17063.1	14789.2	12999.2	11681.5	10771.5	10152.7	9911.7
65°	18403.0	14230.7	11185.2	9043.8	7607.5	6681.4	6068.7	5843.7
67.5°	13479.4	8917.3	5956.3	4268.8	3127.8	2494.9	2243.8	2139.4
70°	6050.7	3139.8	1924.5	1502.7	1295.7	1189.3	1143.1	1127.0
72.5°	1824.1	1319.9	1113.0	1004.4	922.0	869.8	831.7	827.6
75°	1100.9	916.0	813.6	749.3	697.1	654.9	634.8	628.8
77.5°	769.4	672.9	624.8	578.5	538.3	506.2	488.2	474.0
80°	540.4	494.2	472.1	446.0	419.9	389.7	363.7	351.6
82.5°	361.5	351.6	351.6	335.4	313.3	285.2	233.0	220.9
85°	233.0	231.0	235.0	229.0	212.9	182.8	150.7	142.6
87.5°	108.5	110.5	122.6	120.5	116.5	96.4	76.4	72.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)