

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: P192588

Luminaire Tested: **GAN-AF-10-LED-U-5NQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192588
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-10-LED-U-5NQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 47489.5 lumens
Efficiency: N/A
Efficacy: 113.3 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): 419
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

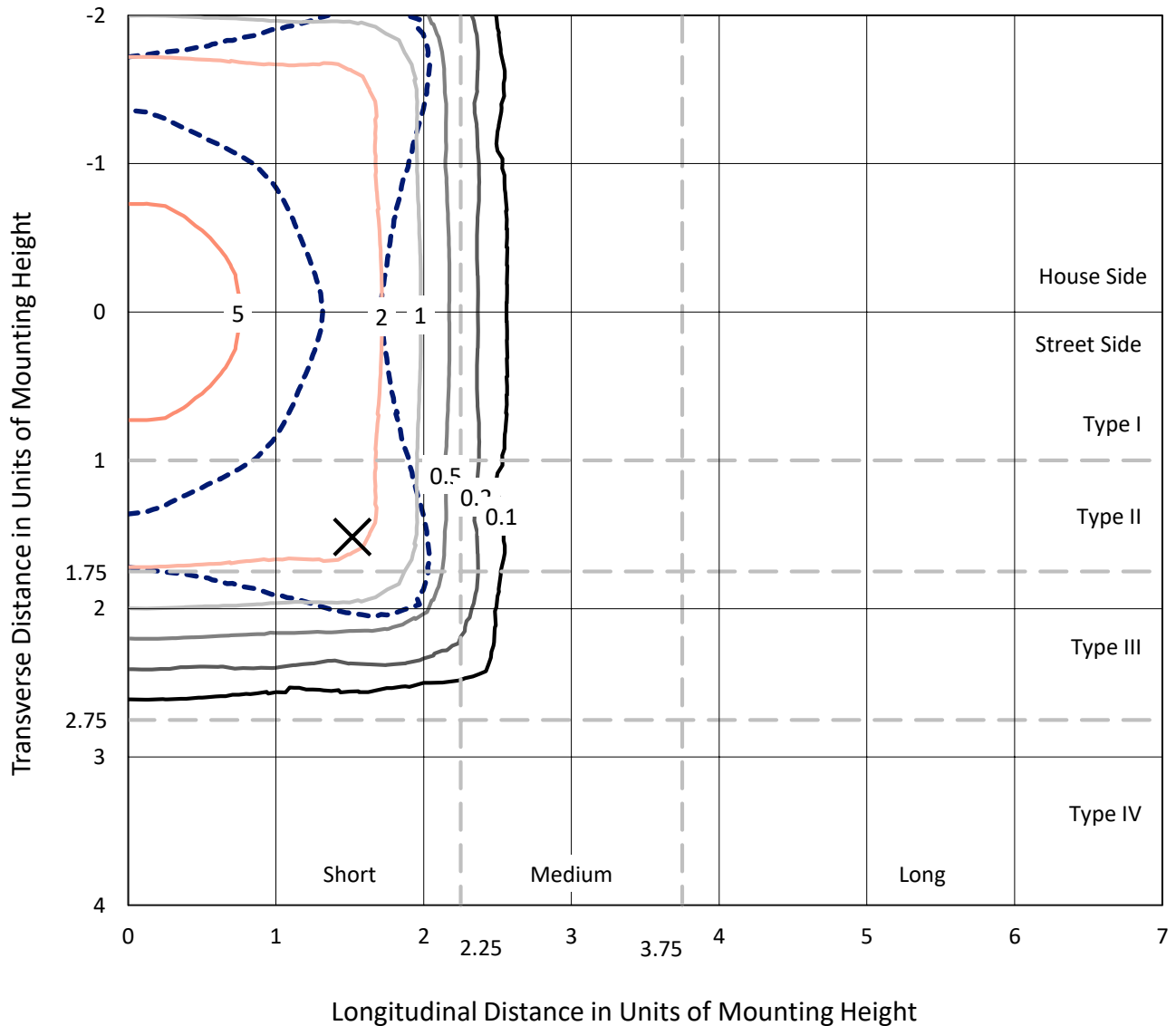


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

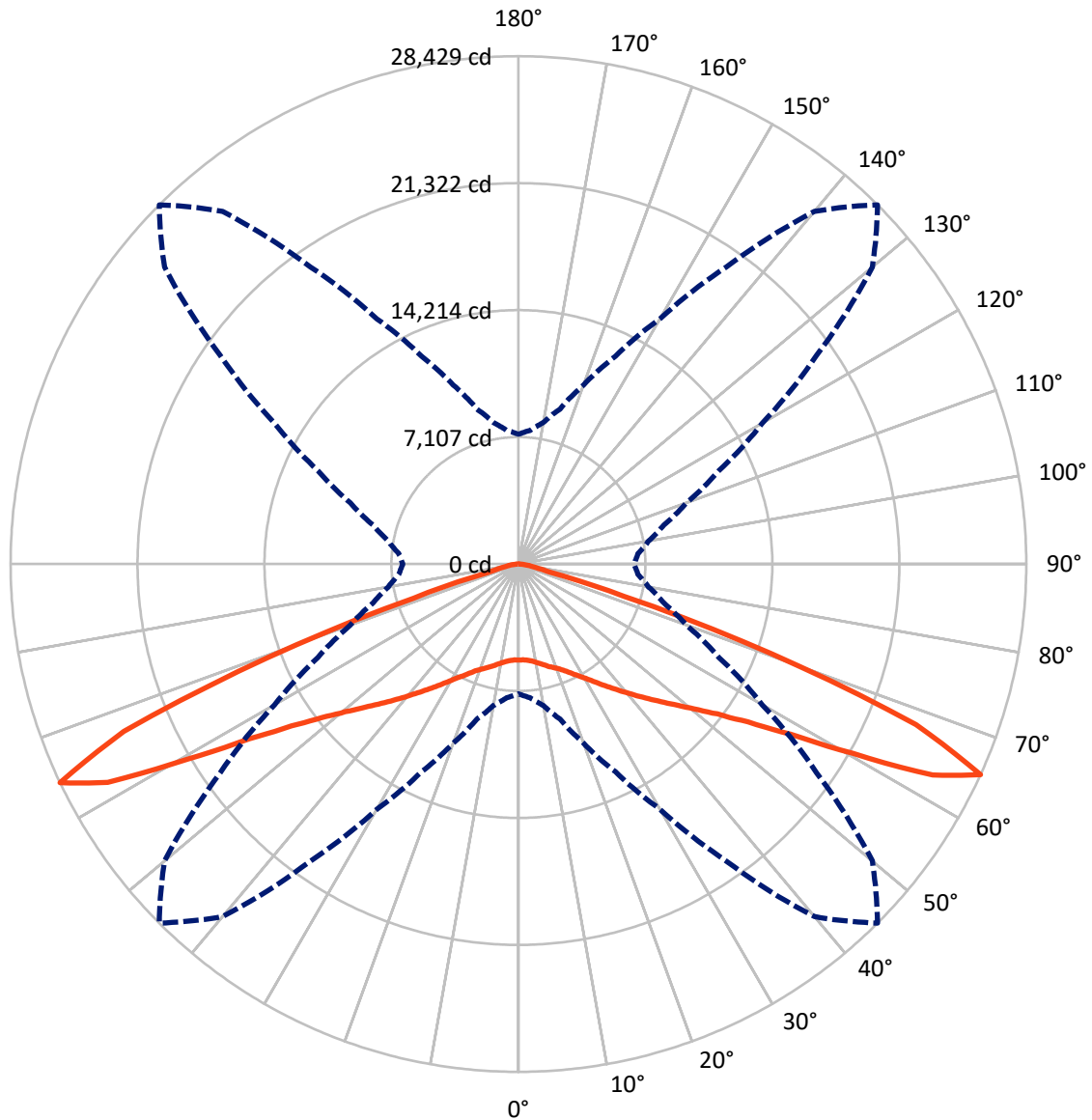


Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - Full Cutoff

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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	23744.8	0.0	23744.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23744.8	0.0	23744.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	47489.5	0.0	47489.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.7	1.1
10°-20°	1679.7	3.5
20°-30°	3140.8	6.6
30°-40°	5311.9	11.2
40°-50°	8685.6	18.3
50°-60°	13811.4	29.1
60°-70°	12484.6	26.3
70°-80°	1580.0	3.3
80°-90°	271.8	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°	47489.5	100.0
0°-180°	47489.5	100.0

Coefficient of Utilization



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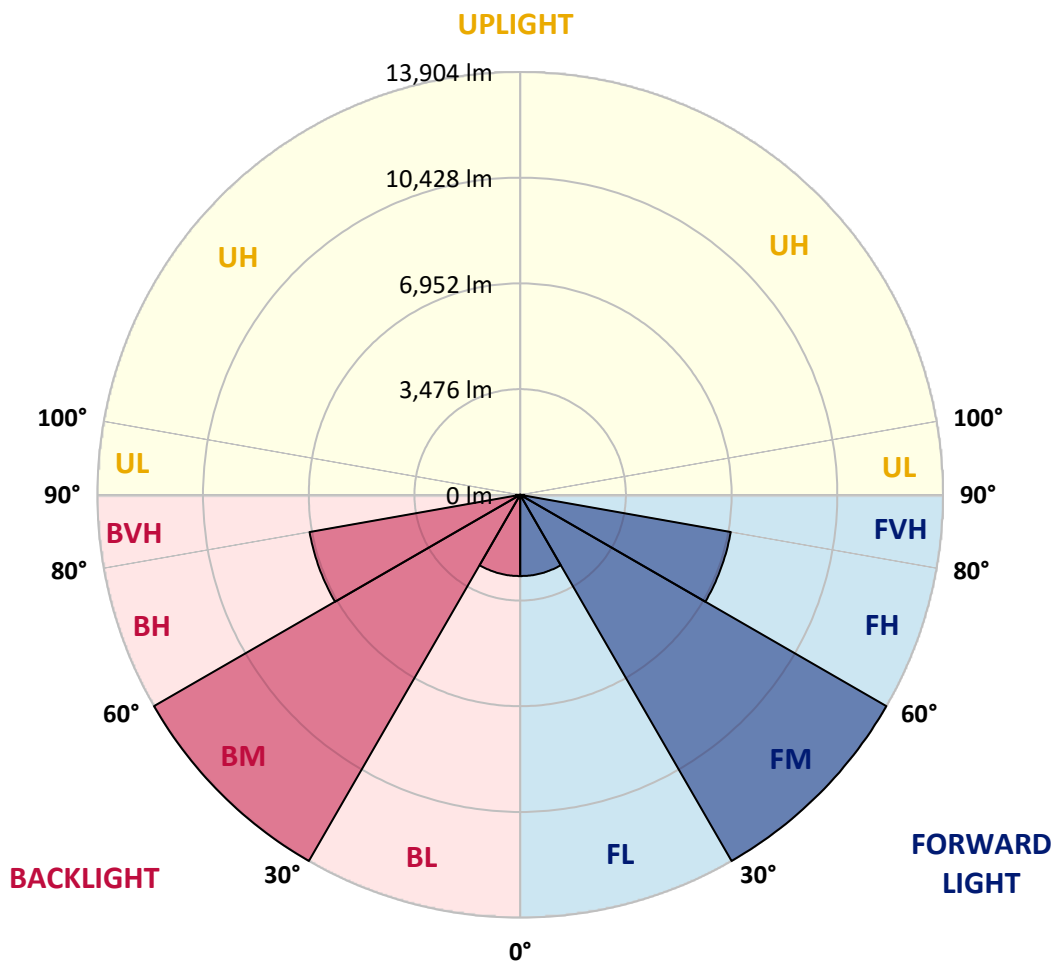
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2672.1	5.6			
FM	(30°-60°)	13904.5	29.3			
FH	(60°-80°)	7032.3	14.8			G3/7500
FVH	(80°-90°)	135.9	0.3			G2/225
BL	(0°-30°)	2672.1	5.6	B4/5000		
BM	(30°-60°)	13904.5	29.3	B5		
BH	(60°-80°)	7032.3	14.8	B5		G3/7500
BVH	(80°-90°)	135.9	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°	5373.5	5373.5	5373.5	5373.5	5373.5	5373.5	5373.5	5373.5	5373.5	5373.5	5373.5
2.5°	5378.0	5382.3	5386.8	5382.3	5386.8	5380.2	5375.7	5382.3	5375.7	5369.0	5373.5
5°	5424.6	5426.8	5426.8	5420.2	5426.8	5422.4	5415.8	5424.6	5417.9	5411.3	5415.8
7.5°	5502.6	5511.4	5504.7	5498.0	5502.6	5498.0	5493.5	5495.7	5493.5	5486.9	5489.0
10°	5606.9	5613.6	5609.3	5606.9	5611.4	5609.3	5604.8	5602.6	5604.8	5598.1	5598.1
12.5°	5733.8	5731.5	5729.3	5731.5	5738.2	5738.2	5736.0	5738.2	5742.6	5744.9	5740.5
15°	5858.4	5862.8	5862.8	5862.8	5876.1	5887.2	5893.9	5898.4	5907.2	5909.5	5900.5
17.5°	6014.0	6014.0	6011.8	6014.0	6027.4	6045.1	6051.9	6060.7	6069.6	6076.2	6065.2
20°	6187.5	6191.9	6191.9	6196.4	6214.2	6234.3	6234.3	6238.6	6234.3	6238.6	6231.9
22.5°	6398.8	6412.1	6412.1	6414.4	6432.1	6456.5	6449.9	6456.5	6445.5	6454.4	6445.5
25°	6674.5	6694.7	6690.2	6690.2	6703.5	6719.0	6721.3	6734.6	6732.4	6743.5	6736.8
27.5°	6985.9	7017.0	7026.0	7023.7	7032.7	7048.2	7052.6	7068.2	7059.4	7068.2	7063.8
30°	7359.6	7373.0	7390.8	7397.4	7408.6	7424.0	7424.0	7426.4	7415.2	7428.5	7435.2
32.5°	7746.6	7771.1	7788.9	7828.9	7848.8	7860.0	7857.8	7862.3	7851.2	7869.0	7882.3
35°	8258.2	8276.0	8304.9	8336.1	8362.7	8360.4	8353.8	8356.0	8356.0	8371.6	8384.9
37.5°	8874.2	8878.6	8916.5	8961.0	8974.3	8961.0	8920.9	8912.1	8892.1	8912.1	8934.2
40°	9525.9	9541.5	9617.1	9646.0	9652.6	9628.3	9570.3	9537.0	9492.6	9517.0	9548.1
42.5°	10208.7	10239.9	10308.8	10360.0	10382.2	10366.6	10286.5	10235.4	10177.6	10190.9	10222.1
45°	10964.9	11002.7	11100.5	11149.5	11191.8	11167.3	11089.5	11011.5	10920.5	10927.1	10975.9
47.5°	11810.1	11847.8	11974.6	12057.0	12079.1	12074.7	11988.0	11881.2	11756.8	11752.3	11794.5
50°	12757.5	12795.4	12953.2	13080.1	13144.6	13137.9	13035.5	12884.3	12733.1	12735.3	12788.7
52.5°	13682.7	13729.5	13894.1	14112.0	14238.7	14330.0	14267.7	14125.4	13940.7	13945.2	13994.2
55°	14550.2	14628.0	14817.0	15112.8	15348.6	15604.4	15677.8	15673.4	15562.2	15593.3	15642.2
57.5°	14970.4	15086.2	15377.5	15844.6	16325.0	16845.5	17285.8	17615.0	17755.1	17966.4	17917.5
60°	14174.3	14358.9	14788.1	15475.4	16425.1	17510.4	18673.7	19810.3	20779.9	21511.6	21091.3
62.5°	11605.4	11845.7	12366.1	13246.8	14683.6	16420.7	18647.0	21333.8	24260.7	26026.6	24765.6
65°	7261.7	7510.8	8040.2	8983.2	10664.7	12824.3	15844.6	20297.3	25766.4	28428.7	25862.0
67.5°	2831.4	2966.9	3253.8	3856.7	5119.9	7041.5	10073.0	15126.2	21667.3	24000.4	21264.8
70°	1419.0	1432.3	1485.7	1597.0	1868.3	2426.5	3692.0	7012.6	12426.2	15008.3	11979.0
72.5°	1025.3	1027.6	1054.3	1103.2	1190.0	1314.5	1554.6	2146.3	4041.2	6176.4	3787.7
75°	785.1	794.0	809.6	836.3	883.0	945.2	1032.0	1236.6	1532.5	1777.1	1494.5
77.5°	605.0	622.8	633.9	658.3	687.2	729.6	754.0	831.8	967.5	1018.7	1003.1
80°	460.4	476.0	500.4	520.4	540.5	560.5	551.5	587.2	658.3	700.6	678.4
82.5°	293.6	311.4	382.5	400.3	409.2	422.7	407.0	409.2	440.5	467.1	440.5
85°	189.0	200.2	242.4	264.6	266.9	275.8	269.1	253.6	253.6	231.3	260.2
87.5°	86.8	88.9	108.9	129.0	133.4	120.0	117.9	113.4	91.2	86.8	93.4
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°	5373.5	5373.5	5373.5	5373.5	5373.5	5373.5	5373.5	5373.5
2.5°	5371.3	5375.7	5378.0	5384.7	5386.8	5386.8	5389.0	5393.5
5°	5413.5	5420.2	5422.4	5431.3	5433.6	5431.3	5435.7	5438.0
7.5°	5489.0	5500.2	5504.7	5513.6	5506.8	5515.9	5518.0	5518.0
10°	5600.3	5611.4	5613.6	5622.6	5618.1	5622.6	5622.6	5618.1
12.5°	5747.1	5749.3	5742.6	5749.3	5740.5	5744.9	5738.2	5733.8
15°	5909.5	5902.8	5887.2	5887.2	5873.9	5876.1	5873.9	5871.7
17.5°	6067.3	6054.0	6042.9	6038.4	6027.4	6025.1	6018.4	6018.4
20°	6240.9	6234.3	6227.6	6218.6	6207.6	6196.4	6194.1	6198.6
22.5°	6449.9	6447.7	6447.7	6443.2	6427.7	6416.6	6409.9	6409.9
25°	6730.2	6710.1	6710.1	6708.0	6701.3	6694.7	6681.2	6687.9
27.5°	7046.0	7034.8	7043.7	7041.5	7034.8	7034.8	7026.0	7026.0
30°	7435.2	7430.7	7444.2	7433.0	7410.7	7408.6	7399.6	7388.5
32.5°	7884.4	7880.0	7900.1	7886.8	7851.2	7831.1	7813.3	7804.4
35°	8384.9	8387.2	8411.7	8402.7	8362.7	8349.4	8318.2	8313.7
37.5°	8932.1	8967.7	9009.8	9018.8	8985.5	8976.5	8943.2	8925.4
40°	9574.8	9621.5	9686.1	9701.5	9666.0	9659.4	9612.6	9588.1
42.5°	10259.9	10340.0	10419.9	10433.3	10397.7	10362.1	10317.7	10299.9
45°	11025.0	11120.6	11225.1	11251.8	11198.4	11156.1	11098.3	11098.3
47.5°	11883.5	12003.6	12121.4	12194.9	12146.0	12101.4	12032.5	11988.0
50°	12897.6	13062.3	13215.7	13291.3	13213.5	13128.9	13008.9	12968.8
52.5°	14169.9	14347.8	14481.2	14441.3	14321.0	14203.1	14071.9	14018.6
55°	15793.4	15853.5	15853.5	15702.3	15462.1	15264.1	15057.2	14988.3
57.5°	17824.1	17592.8	17237.0	16785.4	16218.2	15724.5	15391.0	15232.9
60°	20210.6	19098.5	17841.8	16607.5	15593.3	14757.0	14261.1	14034.2
62.5°	21800.8	18891.7	16373.9	14392.2	12933.2	11925.7	11240.7	10973.8
65°	20375.1	15755.6	12383.9	10012.9	8422.7	7397.4	6719.0	6470.0
67.5°	14923.8	9872.8	6594.6	4726.2	3463.0	2762.4	2484.3	2368.6
70°	6699.0	3476.3	2130.7	1663.7	1434.6	1316.7	1265.5	1247.7
72.5°	2019.5	1461.3	1232.1	1112.0	1020.9	963.0	920.8	916.3
75°	1218.8	1014.2	900.8	829.6	771.8	725.1	702.9	696.2
77.5°	851.7	745.0	691.7	640.6	596.0	560.5	540.5	524.9
80°	598.3	547.2	522.7	493.8	464.8	431.5	402.5	389.2
82.5°	400.3	389.2	389.2	371.5	347.0	315.9	258.0	244.6
85°	258.0	255.7	260.2	253.6	235.8	202.3	166.8	157.9
87.5°	120.0	122.4	135.7	133.4	129.0	106.7	84.5	80.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)