

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: P192958

Luminaire Tested: **GAN-AF-10-LED-U-SL4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46247.3 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

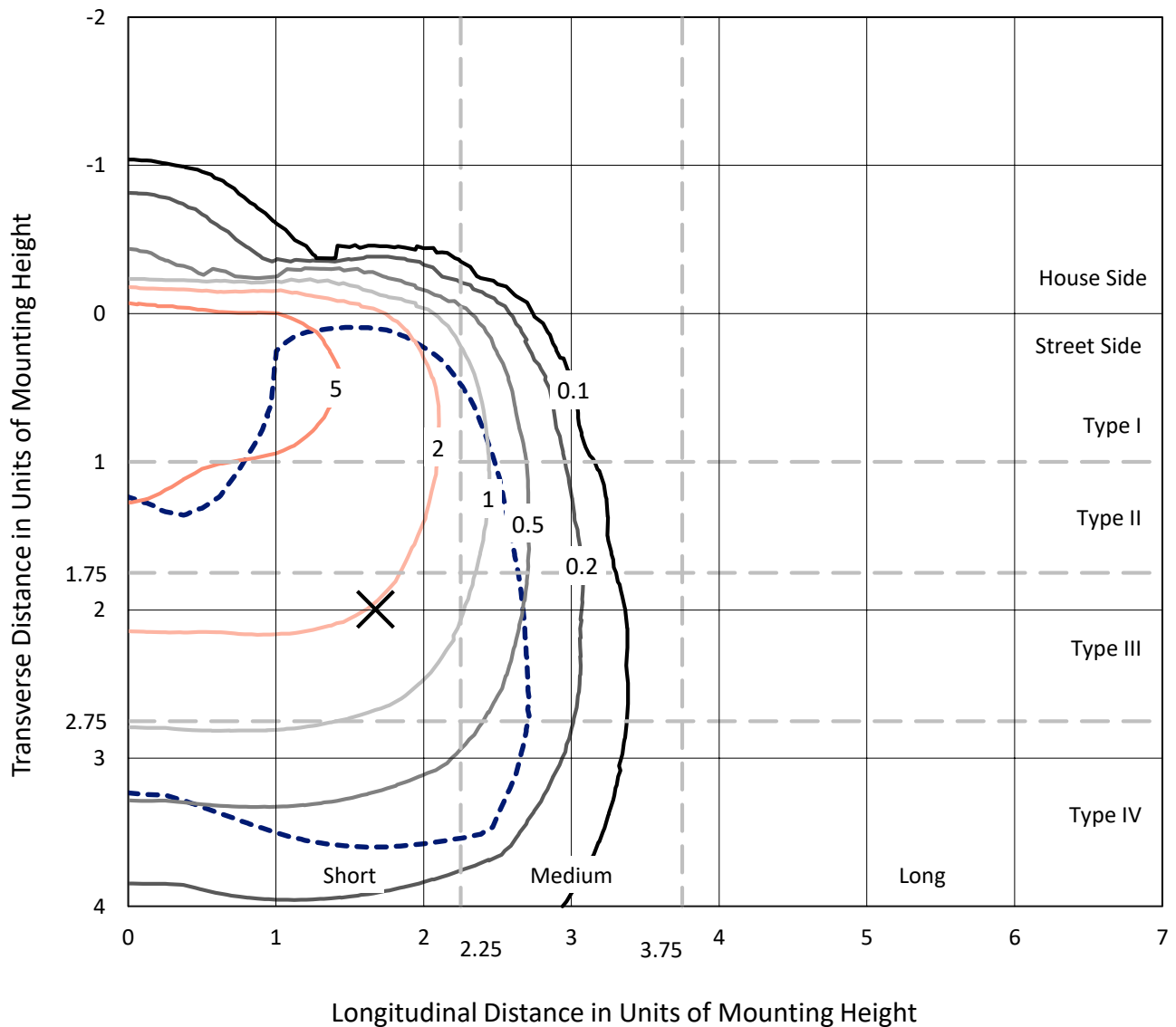
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

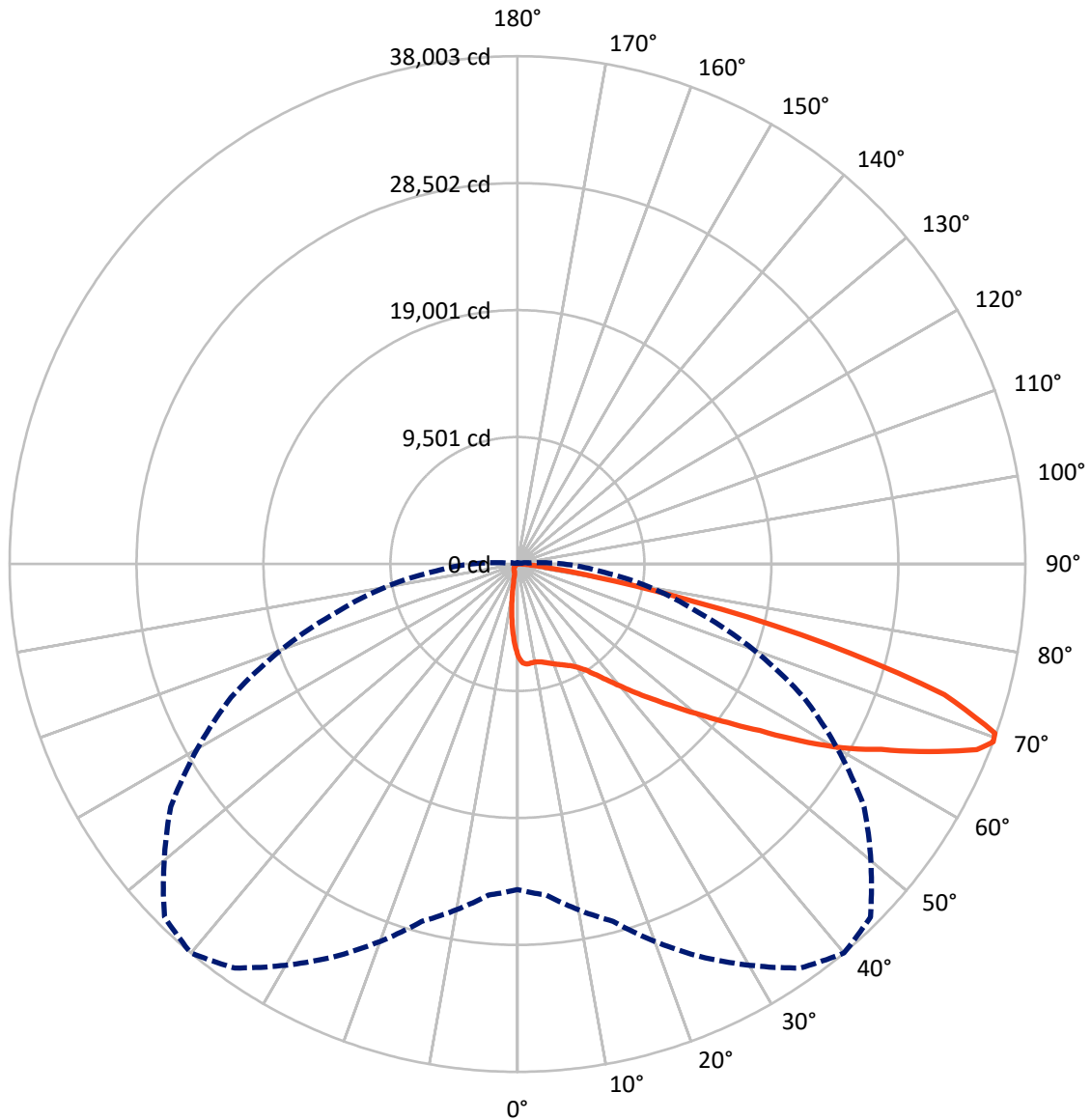
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2705.7	0.0	2705.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	43541.5	0.0	43541.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	46247.3	0.0	46247.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.2	1.2
10°-20°	1377.7	3.0
20°-30°	2320.5	5.0
30°-40°	3798.8	8.2
40°-50°	6577.5	14.2
50°-60°	10360.2	22.4
60°-70°	13530.0	29.3
70°-80°	6968.5	15.1
80°-90°	753.8	1.6
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°	46247.3	100.0
0°-180°	46247.3	100.0

Coefficient of Utilization



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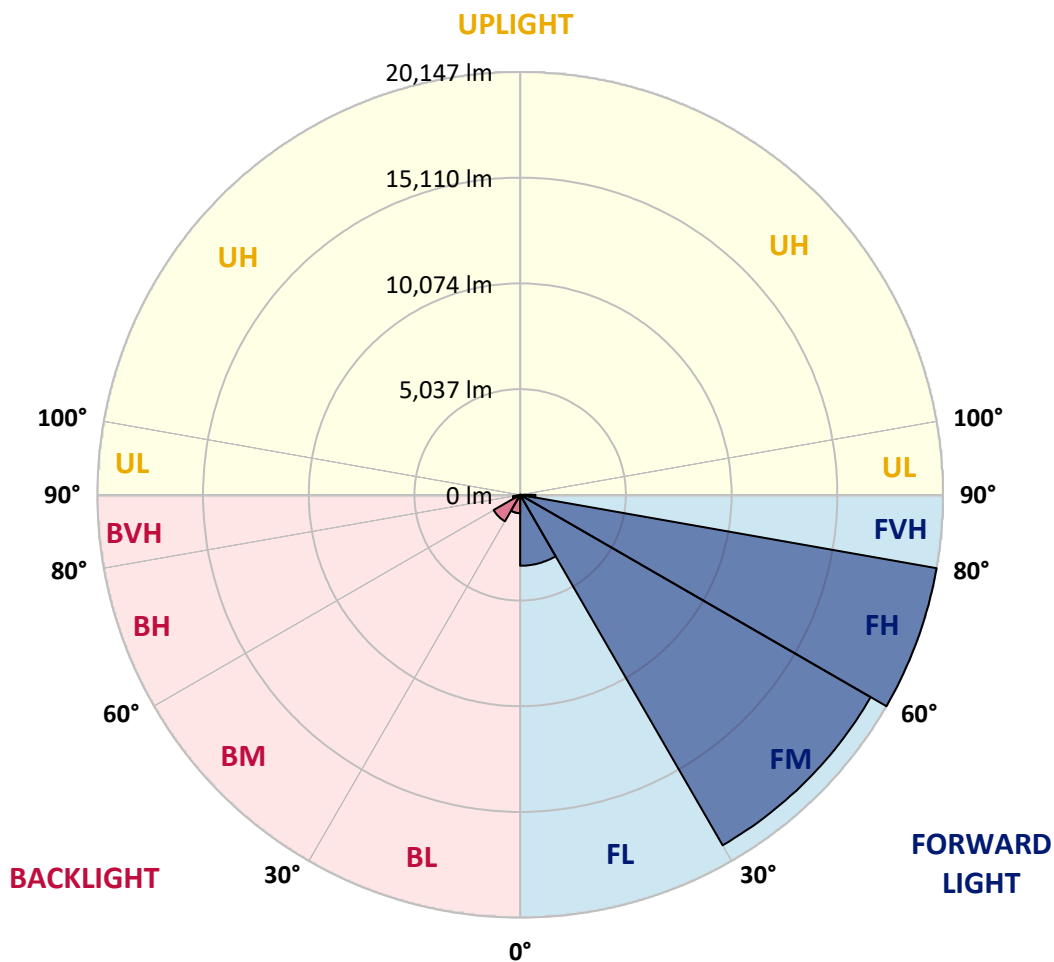
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3382.0	7.3			
FM	(30°-60°)	19282.2	41.7			
FH	(60°-80°)	20147.2	43.6			G5
FVH	(80°-90°)	730.1	1.6			G4/750
BL	(0°-30°)	876.5	1.9	B2/1000		
BM	(30°-60°)	1454.3	3.1	B2/2500		
BH	(60°-80°)	351.3	0.8	B1/500		G1/500
BVH	(80°-90°)	23.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6909.5	6909.5	6909.5	6909.5	6909.5	6909.5	6909.5	6909.5	6909.5	6909.5	6909.5
2.5°	7586.8	7545.5	7520.8	7487.6	7446.3	7410.6	7396.9	7295.0	7198.6	7066.5	6915.1
5°	7727.2	7713.3	7669.4	7625.3	7575.7	7520.8	7490.4	7369.3	7231.7	7038.9	6774.7
7.5°	7740.9	7724.4	7669.4	7608.9	7540.0	7473.9	7421.7	7300.4	7173.9	6978.4	6656.3
10°	7718.9	7699.6	7658.3	7592.3	7506.9	7443.7	7391.3	7275.7	7168.4	6992.1	6634.3
12.5°	7694.1	7674.9	7655.6	7622.6	7548.2	7504.2	7460.1	7350.0	7253.7	7105.0	6714.1
15°	7718.9	7707.9	7729.9	7716.1	7674.9	7636.3	7592.3	7493.2	7405.0	7281.2	6860.1
17.5°	7823.5	7823.5	7892.4	7900.6	7862.1	7807.0	7743.6	7644.6	7570.2	7465.6	7033.4
20°	8068.5	8060.3	8148.3	8164.8	8071.3	7986.0	7892.4	7771.2	7713.3	7647.4	7204.1
22.5°	8489.7	8451.2	8503.4	8486.9	8302.5	8170.4	8054.7	7906.1	7875.9	7845.6	7394.1
25°	9037.5	9015.5	9051.2	8888.9	8564.1	8385.1	8247.4	8079.5	8079.5	8109.8	7608.9
27.5°	9833.2	9750.6	9629.3	9343.1	8855.8	8627.3	8478.7	8299.8	8346.6	8459.4	7892.4
30°	10647.9	10557.0	10279.0	9838.6	9210.9	8971.4	8798.0	8610.8	8721.0	8927.3	8272.2
32.5°	11451.7	11349.9	10956.2	10400.2	9720.2	9480.8	9312.8	9106.3	9290.8	9637.6	8828.2
35°	12230.8	12139.9	11685.8	11030.6	10397.4	10199.3	10045.1	9866.1	10102.8	10587.3	9612.8
37.5°	13106.2	13007.1	12453.8	11743.5	11220.5	11077.4	10964.5	10785.5	11198.4	11908.7	10705.8
40°	14182.5	14014.5	13268.6	12561.1	12173.0	12104.2	12027.0	12002.3	12643.7	13626.5	12161.9
42.5°	15415.8	15140.5	14122.0	13422.7	13219.1	13268.6	13249.4	13359.4	14452.3	15762.7	13934.8
45°	16649.0	16294.0	15071.7	14342.3	14369.7	14543.2	14650.5	15091.0	16717.9	18212.7	15842.5
47.5°	17695.1	17345.6	15982.9	15335.9	15666.2	16007.7	16299.4	17133.6	19046.7	20624.1	17326.3
50°	18589.8	18259.4	16949.1	16428.9	17172.1	17722.6	18196.1	19432.2	21551.8	22460.2	18366.8
52.5°	19322.1	19101.8	17951.2	17681.3	18892.6	19699.2	20392.9	21873.9	23770.6	23952.3	19176.1
55°	20035.0	19878.1	19027.5	19170.6	20913.2	22011.6	22889.7	24464.4	25681.1	25196.6	19952.5
57.5°	20855.4	20712.2	20255.2	21059.0	23569.6	24951.5	25909.5	26760.3	27363.0	26468.4	20684.8
60°	21692.3	21609.7	21620.7	23156.7	26619.8	27946.7	28475.1	28695.5	29014.7	27665.9	20725.9
62.5°	22490.6	22647.5	23181.5	25491.1	29540.5	30559.0	30826.1	31043.5	30669.2	27855.7	19148.7
65°	23842.2	24098.2	25372.7	28615.5	32753.0	33843.2	34118.5	33372.4	30930.6	25400.3	15575.5
67.5°	24502.8	24970.8	27244.7	31528.1	35869.3	37080.5	36978.6	33523.8	27756.7	19368.8	9995.5
69°	24365.3	24863.5	27676.9	32420.0	36904.3	38002.7	37355.7	31671.2	23646.8	14031.1	6136.0
70°	23820.1	24324.0	27453.9	32386.9	37036.4	37906.3	36656.6	29383.6	19993.7	10259.8	3837.4
72.5°	19891.8	20326.8	24373.4	29273.5	34118.5	33410.9	30666.5	20357.0	9742.2	2794.1	864.4
75°	12244.5	12486.8	17488.7	22052.9	25769.2	23952.3	20431.5	10127.7	2904.2	790.1	479.0
77.5°	6469.1	6579.3	9574.3	12998.8	16335.3	13516.4	10471.7	3950.3	1337.9	495.5	346.9
80°	3823.6	3906.2	5156.1	5943.3	7069.3	5904.8	4187.1	2425.2	957.9	311.1	308.3
82.5°	2188.5	2240.8	3738.3	3303.4	2785.9	2378.5	2083.9	2298.6	575.4	209.2	319.4
85°	803.8	814.8	2103.1	2513.3	1657.3	985.5	1035.0	1904.9	154.2	132.1	250.5
87.5°	374.4	366.1	1081.8	1538.8	969.0	624.9	806.6	418.5	60.5	85.3	68.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6909.5	6909.5	6909.5	6909.5	6909.5	6909.5	6909.5	6909.5	6909.5	6909.5	6909.5
2.5°	6826.9	6725.1	6540.7	6350.8	6158.1	6009.4	5863.5	5747.9	5709.4	5637.8	5643.2
5°	6617.9	6430.6	6045.2	5654.2	5246.8	4910.9	4594.5	4338.4	4214.5	4087.9	4087.9
7.5°	6436.1	6163.6	5560.8	4924.8	4266.9	3713.5	3215.3	2841.0	2634.5	2469.3	2466.5
10°	6367.3	5998.5	5156.1	4244.8	3328.1	2573.9	1982.1	1602.2	1406.7	1280.1	1274.5
12.5°	6397.5	5940.5	4845.0	3617.2	2466.5	1654.4	1147.9	902.9	820.3	781.7	781.7
15°	6485.6	5924.0	4533.9	3003.3	1742.5	1035.0	762.5	696.4	690.9	690.9	690.9
17.5°	6593.0	5929.6	4214.5	2406.0	1186.4	740.6	658.0	649.6	655.1	655.1	655.1
20°	6703.2	5932.3	3870.5	1852.6	836.8	644.2	619.4	616.7	622.1	622.1	624.9
22.5°	6838.0	5946.1	3526.4	1384.7	690.9	608.3	589.1	589.1	591.8	591.8	589.1
25°	6992.1	5973.6	3168.5	1026.8	630.4	583.6	567.0	564.4	567.0	564.4	561.6
27.5°	7184.9	6012.2	2769.2	803.8	602.9	558.9	545.1	545.1	542.3	539.5	536.8
30°	7427.1	6056.2	2320.6	682.7	575.4	536.8	523.1	520.3	517.6	512.0	512.0
32.5°	7795.9	6152.6	1877.4	619.4	545.1	506.5	495.5	495.5	490.0	484.4	481.8
35°	8363.0	6342.5	1481.0	580.8	512.0	473.5	459.8	459.8	454.2	451.5	448.7
37.5°	9147.6	6631.5	1150.7	545.1	479.0	437.7	423.9	421.2	415.6	410.2	407.4
40°	10190.9	6989.5	905.6	512.0	446.0	402.0	390.9	385.3	374.4	366.1	366.1
42.5°	11501.2	7396.9	735.0	476.3	407.4	368.9	360.7	352.4	333.1	324.8	322.1
45°	12872.2	7763.0	622.1	435.0	368.9	335.9	330.3	316.6	291.8	283.5	283.5
47.5°	13860.4	7848.3	547.8	396.4	333.1	300.0	297.3	272.5	250.5	245.0	242.2
50°	14477.1	7680.4	487.3	357.9	300.0	267.0	258.7	228.5	214.7	209.2	206.5
52.5°	14892.8	7380.4	437.7	324.8	269.8	236.8	217.4	195.5	184.4	178.9	178.9
55°	15225.9	6956.4	388.2	294.6	245.0	212.0	184.4	167.9	156.9	151.5	151.5
57.5°	15319.5	6381.1	338.6	269.8	220.2	187.2	156.9	145.9	132.1	129.4	129.4
60°	14639.5	5343.3	300.0	239.5	198.2	162.5	137.6	123.9	110.2	107.4	104.6
62.5°	12847.4	4134.7	264.3	212.0	173.4	140.4	118.3	101.8	90.8	90.8	90.8
65°	9800.0	2772.1	231.2	184.4	151.5	118.3	101.8	82.6	77.0	77.0	79.9
67.5°	5866.2	1508.6	198.2	156.9	129.4	99.1	85.3	71.6	68.9	71.6	71.6
69°	3438.3	886.4	178.9	140.4	112.9	88.1	74.3	63.3	68.9	71.6	71.6
70°	2122.5	597.3	165.2	126.6	101.8	79.9	68.9	60.5	66.1	68.9	68.9
72.5°	591.8	308.3	132.1	99.1	82.6	66.1	55.0	55.0	63.3	66.1	66.1
75°	385.3	228.5	101.8	74.3	63.3	52.3	46.8	52.3	60.5	63.3	63.3
77.5°	319.4	187.2	82.6	60.5	52.3	49.6	44.0	46.8	55.0	57.8	57.8
80°	291.8	132.1	66.1	55.0	46.8	44.0	41.3	38.6	49.6	52.3	52.3
82.5°	278.1	104.6	57.8	49.6	44.0	38.6	35.8	38.6	44.0	46.8	49.6
85°	173.4	68.9	52.3	46.8	38.6	35.8	35.8	35.8	41.3	44.0	44.0
87.5°	63.3	55.0	46.8	38.6	33.0	33.0	33.0	33.0	35.8	41.3	41.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)