

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: P321351

Luminaire Tested: **GAN-SA7A-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26606 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

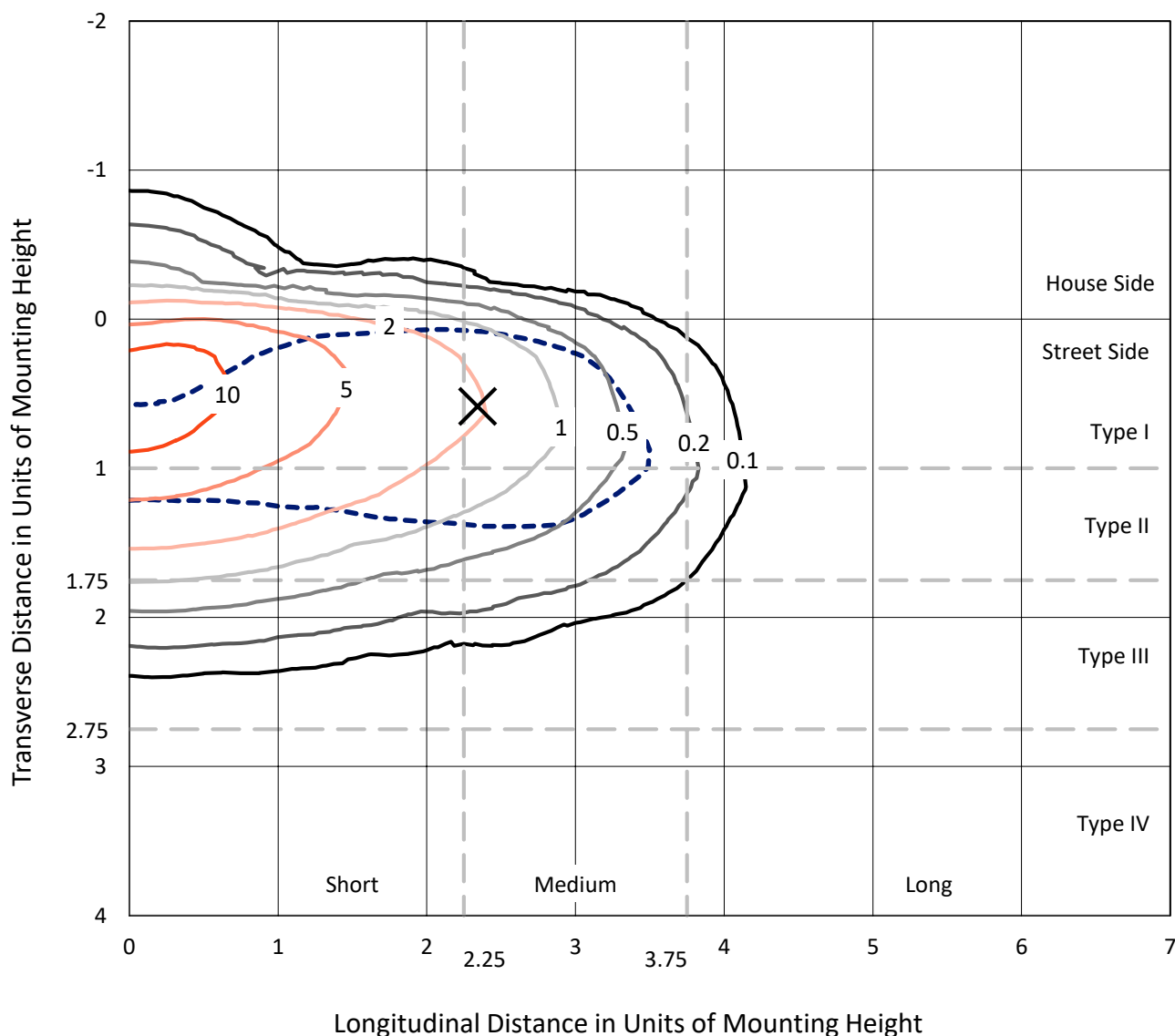
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

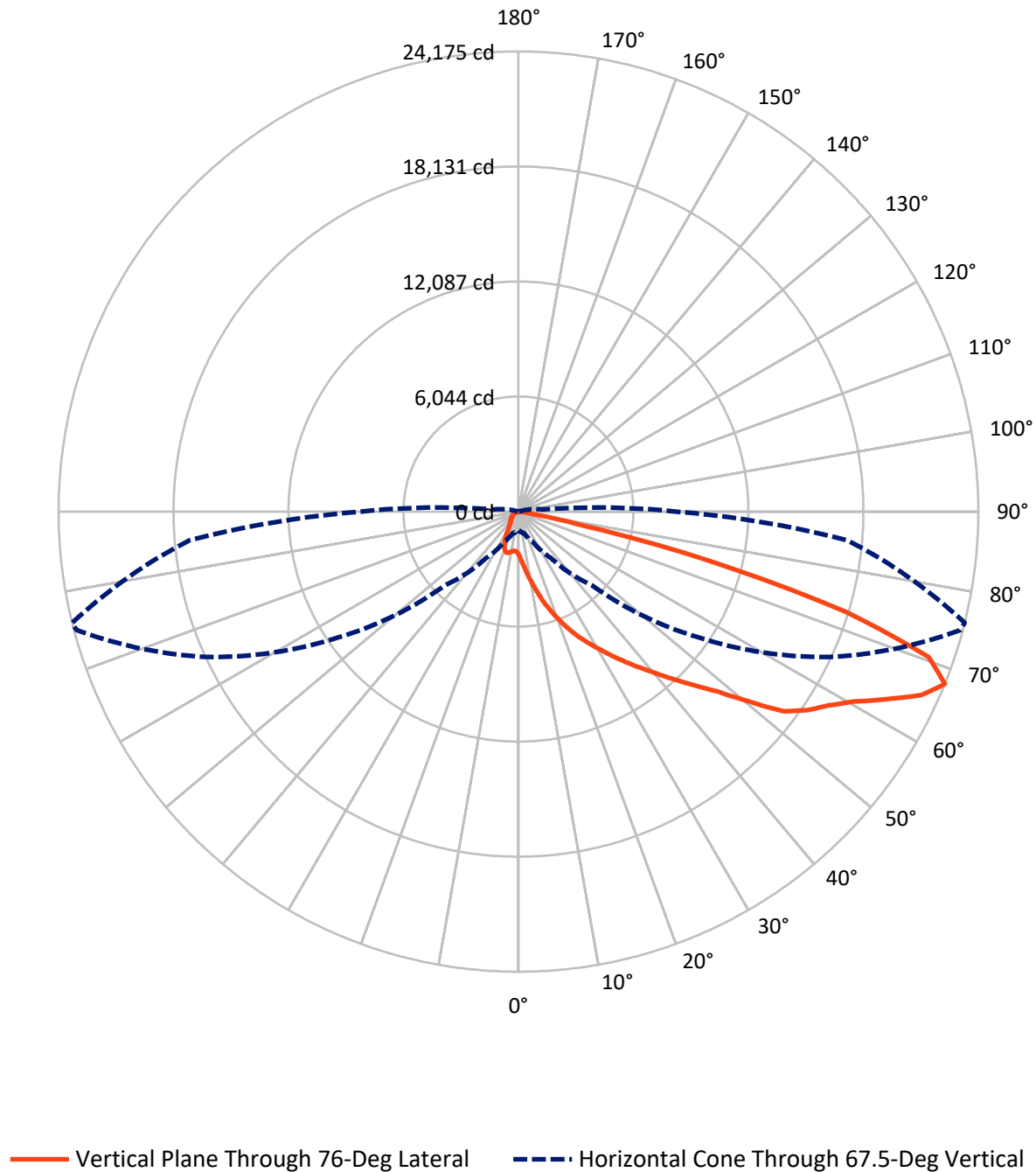
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1321.2	0.0	1321.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	25284.8	0.0	25284.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	26606.0	0.0	26606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	1.1
10°-20°	1112.5	4.2
20°-30°	2263.6	8.5
30°-40°	3928.9	14.8
40°-50°	5551.1	20.9
50°-60°	6295.2	23.7
60°-70°	5221.3	19.6
70°-80°	1891.3	7.1
80°-90°	61.3	0.2
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°	26606.0	100.0
0°-180°	26606.0	100.0

Coefficient of Utilization



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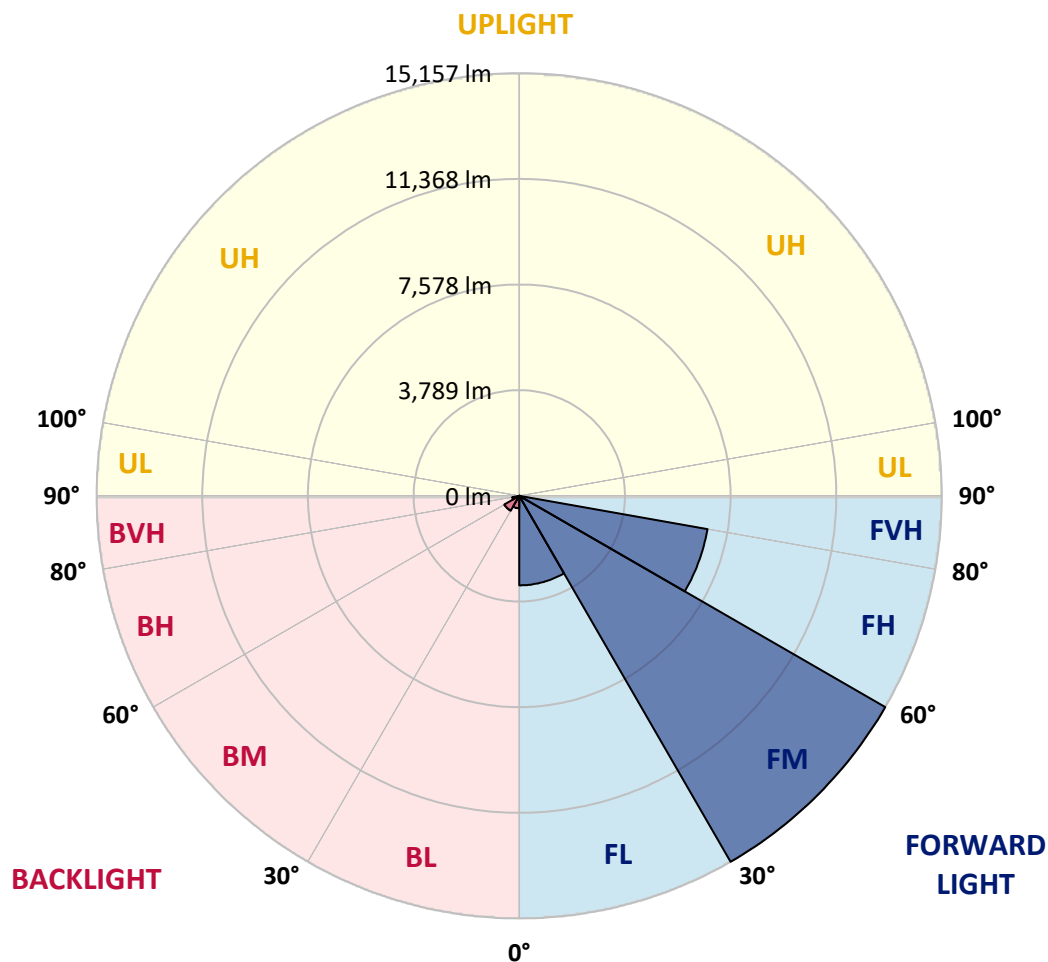
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3211.3	12.1			
FM	(30°-60°)	15156.9	57.0			
FH	(60°-80°)	6857.3	25.8			G3/7500
FVH	(80°-90°)	59.4	0.2			G1/100
BL	(0°-30°)	445.6	1.7	B1/500		
BM	(30°-60°)	618.4	2.3	B1/1000		
BH	(60°-80°)	255.3	1.0	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0
2.5°	3369.1	3293.3	3310.8	3261.9	3173.3	2991.4	2836.4	2689.5	2518.1	2512.3	2371.2
5°	4543.1	4478.9	4470.8	4371.7	4210.8	3901.9	3601.1	3258.4	2876.0	2848.0	2548.4
7.5°	5608.6	5557.3	5538.6	5420.9	5121.3	4820.5	4428.8	3925.2	3327.1	3275.9	2787.4
10°	6427.0	6402.5	6407.2	6323.2	6066.7	5787.0	5272.8	4630.5	3838.9	3759.7	3074.2
12.5°	7047.2	7053.0	7095.0	7043.7	6900.3	6692.8	6143.7	5382.4	4405.5	4297.1	3401.8
15°	7503.0	7532.1	7609.1	7673.2	7662.7	7483.2	6979.6	6146.0	5007.0	4887.0	3766.7
17.5°	7797.9	7830.6	7942.5	8084.7	8215.3	8173.3	7786.3	6882.8	5615.6	5476.9	4157.2
20°	8056.7	8095.2	8215.3	8403.0	8646.6	8699.1	8444.9	7597.4	6223.0	6053.9	4560.6
22.5°	8617.5	8616.3	8689.8	8799.3	9031.3	9166.6	9005.7	8260.8	6823.3	6647.3	4972.1
25°	9631.7	9593.2	9567.6	9481.3	9532.6	9616.6	9526.8	8880.9	7427.2	7248.8	5389.4
27.5°	10837.1	10860.5	10652.9	10421.0	10241.4	10155.2	10008.3	9455.7	8007.8	7811.9	5797.4
30°	12109.0	12116.0	11871.2	11575.1	11179.9	10852.3	10598.1	10004.8	8604.7	8391.3	6193.8
32.5°	13256.1	13210.7	12968.2	12564.8	12065.9	11697.5	11169.4	10618.0	9236.5	9030.2	6634.5
35°	14165.5	14111.8	13816.9	13449.7	12932.1	12561.3	11926.0	11230.0	9901.0	9699.3	7076.3
37.5°	14829.9	14767.0	14463.9	14086.2	13639.7	13424.0	12803.8	11895.7	10626.1	10409.3	7541.5
40°	15060.8	15006.0	14816.0	14539.7	14180.6	14131.6	13735.3	12661.6	11415.4	11184.5	8068.4
42.5°	14923.2	14869.6	14802.0	14708.7	14559.5	14606.1	14614.3	13534.8	12292.0	12064.7	8650.1
45°	14377.6	14329.8	14399.8	14536.2	14721.5	14952.4	15416.3	14473.2	13271.3	13028.8	9322.8
47.5°	13574.4	13539.4	13732.9	14073.4	14615.4	15252.0	16149.6	15459.5	14370.6	14145.6	10162.1
50°	12431.9	12426.1	12813.1	13434.5	14268.0	15396.5	16907.4	16581.0	15897.8	15661.2	11329.1
52.5°	10652.9	10664.6	11425.9	12420.3	13658.3	15298.6	17394.7	18021.9	17674.5	17428.5	12339.8
55°	8959.1	9029.0	9568.8	11002.7	12723.4	14934.9	17562.5	18694.5	18654.9	18421.7	12901.7
57.5°	7300.1	7427.2	7947.2	9286.6	11358.2	14096.7	17470.5	18986.0	19384.7	19206.3	13643.2
60°	5502.5	5560.8	6160.0	7412.1	9606.1	12567.2	16802.5	19144.5	20382.6	20259.0	14719.2
62.5°	3500.9	3646.6	4178.2	5385.9	7479.7	10443.1	15676.3	19142.2	21631.1	21698.8	16107.6
65°	1844.3	2014.5	2296.6	3337.6	5139.9	8070.7	13982.4	18962.7	23163.0	23257.4	17193.0
67.5°	994.4	1043.4	1192.6	1732.4	2980.9	5467.5	11493.5	18076.7	24050.1	24174.9	17344.5
70°	727.4	754.3	810.2	958.3	1500.4	3175.6	8386.7	16068.0	22906.5	22859.9	15410.5
72.5°	558.4	600.4	642.3	701.8	862.7	1695.1	5221.6	12582.3	18277.2	17969.4	11519.1
75°	440.7	447.7	507.1	560.7	647.0	965.3	2318.7	7328.1	11155.4	10426.8	5973.5
77.5°	352.1	356.7	391.7	438.3	519.9	634.2	718.1	2883.0	3561.5	3177.9	1296.4
80°	208.7	220.3	291.4	338.1	431.3	399.9	262.3	626.0	556.1	503.6	218.0
82.5°	116.6	125.9	164.4	267.0	300.8	191.2	130.6	169.0	130.6	127.1	61.8
85°	0.0	5.8	106.1	165.5	122.4	42.0	54.8	56.0	38.5	36.1	24.5
87.5°	0.0	0.0	32.6	31.5	4.7	7.0	12.8	18.7	15.2	15.2	12.8
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°	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0
2.5°	2301.3	2238.3	2119.4	2002.8	1904.9	1824.5	1752.2	1723.0	1699.7	1696.2	1677.6
5°	2403.8	2276.8	2049.4	1862.9	1738.2	1649.6	1573.8	1527.2	1491.0	1477.0	1464.2
7.5°	2558.9	2366.5	2040.1	1825.6	1676.4	1527.2	1387.3	1235.7	1141.3	1105.2	1084.2
10°	2747.8	2485.5	2075.1	1815.1	1554.0	1239.2	1007.2	814.9	736.8	711.1	704.1
12.5°	2968.1	2633.5	2135.7	1749.8	1292.9	880.2	694.8	629.5	612.0	603.9	603.9
15°	3221.1	2795.6	2178.9	1561.0	955.9	665.7	601.5	571.2	552.6	542.1	543.3
17.5°	3479.9	2954.1	2157.9	1287.0	705.3	592.2	544.4	511.8	486.1	475.6	473.3
20°	3741.0	3101.0	2041.3	958.3	596.9	537.4	483.8	447.7	422.0	411.5	409.2
22.5°	4011.5	3225.7	1836.1	703.0	536.3	476.8	424.3	388.2	363.7	354.4	349.7
25°	4274.9	3327.1	1549.3	568.9	479.1	419.7	369.6	335.7	313.6	304.3	303.1
27.5°	4520.9	3391.3	1217.1	502.5	429.0	368.4	322.9	292.6	274.0	267.0	265.8
30°	4742.4	3397.1	900.0	453.5	384.7	324.1	282.1	255.3	239.0	232.0	229.7
32.5°	4966.2	3348.1	655.2	409.2	343.9	285.6	244.8	223.8	212.2	206.3	206.3
35°	5177.3	3235.1	510.6	370.7	304.3	248.3	215.7	200.5	193.5	187.7	187.7
37.5°	5383.6	3073.0	433.7	336.9	267.0	216.8	190.0	180.7	174.9	169.0	169.0
40°	5593.4	2869.0	394.0	305.4	236.7	192.4	169.0	160.9	155.0	150.4	149.2
42.5°	5851.1	2633.5	368.4	276.3	209.8	170.2	149.2	139.9	135.2	130.6	128.2
45°	6149.5	2430.7	347.4	247.1	187.7	151.6	129.4	120.1	113.1	107.3	106.1
47.5°	6579.7	2283.8	319.4	215.7	166.7	131.7	111.9	101.4	90.9	85.1	83.9
50°	7128.8	2162.5	283.3	187.7	145.7	111.9	93.3	80.4	71.1	65.3	65.3
52.5°	7401.6	2004.0	250.6	163.2	122.4	94.4	75.8	60.6	56.0	50.1	50.1
55°	7511.2	1882.7	218.0	138.7	101.4	78.1	59.5	46.6	43.1	39.6	38.5
57.5°	7818.9	1847.8	190.0	117.7	83.9	61.8	45.5	35.0	32.6	28.0	28.0
60°	8314.4	1865.3	164.4	100.3	67.6	47.8	33.8	26.8	24.5	19.8	19.8
62.5°	8849.5	1843.1	138.7	86.3	52.5	35.0	23.3	19.8	19.8	11.7	10.5
65°	8952.1	1641.4	118.9	71.1	40.8	25.6	15.2	12.8	17.5	2.3	0.0
67.5°	8308.5	1273.0	102.6	54.8	30.3	19.8	11.7	5.8	15.2	0.0	0.0
70°	6643.8	809.1	82.8	39.6	23.3	16.3	9.3	2.3	11.7	0.0	0.0
72.5°	4698.1	469.8	65.3	28.0	19.8	12.8	7.0	0.0	7.0	0.0	0.0
75°	2375.9	250.6	40.8	21.0	15.2	9.3	4.7	0.0	1.2	0.0	0.0
77.5°	514.1	116.6	25.6	15.2	10.5	5.8	2.3	0.0	0.0	0.0	0.0
80°	111.9	51.3	16.3	9.3	5.8	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	40.8	26.8	8.2	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.1	14.0	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	4.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)