

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: P321844

Luminaire Tested: **GAN-SA0B-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33651 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 419
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

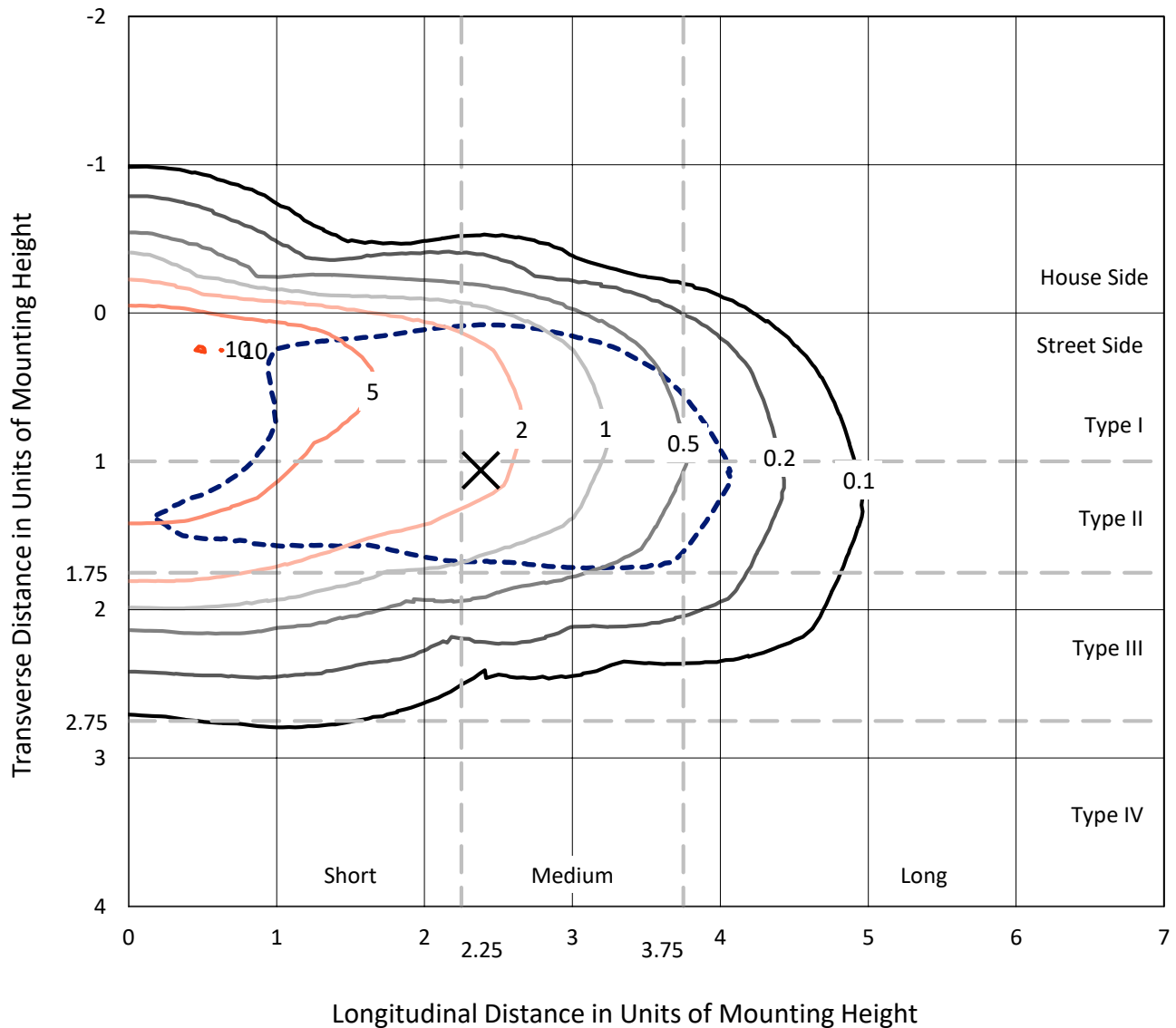


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Iso-Footcandle Lines of Horizontal Illumination

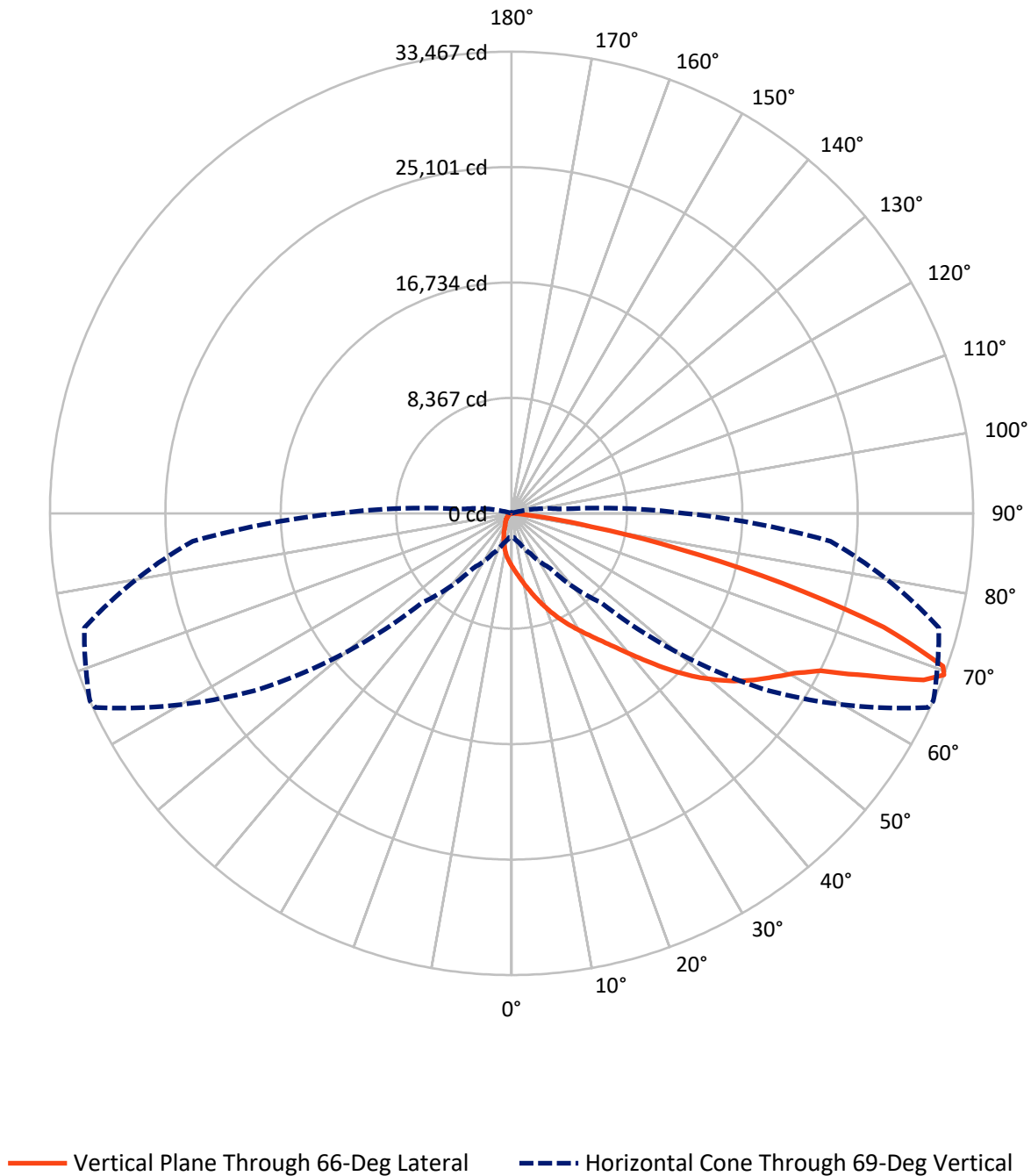
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	2018.6	0.0	2018.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	31632.4	0.0	31632.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	33651.0	0.0	33651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.2	1.1
10°-20°	1101.7	3.3
20°-30°	1918.5	5.7
30°-40°	3366.0	10.0
40°-50°	5634.2	16.7
50°-60°	8281.7	24.6
60°-70°	8503.3	25.3
70°-80°	4197.8	12.5
80°-90°	277.6	0.8
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°	33651.0	100.0
0°-180°	33651.0	100.0

Coefficient of Utilization



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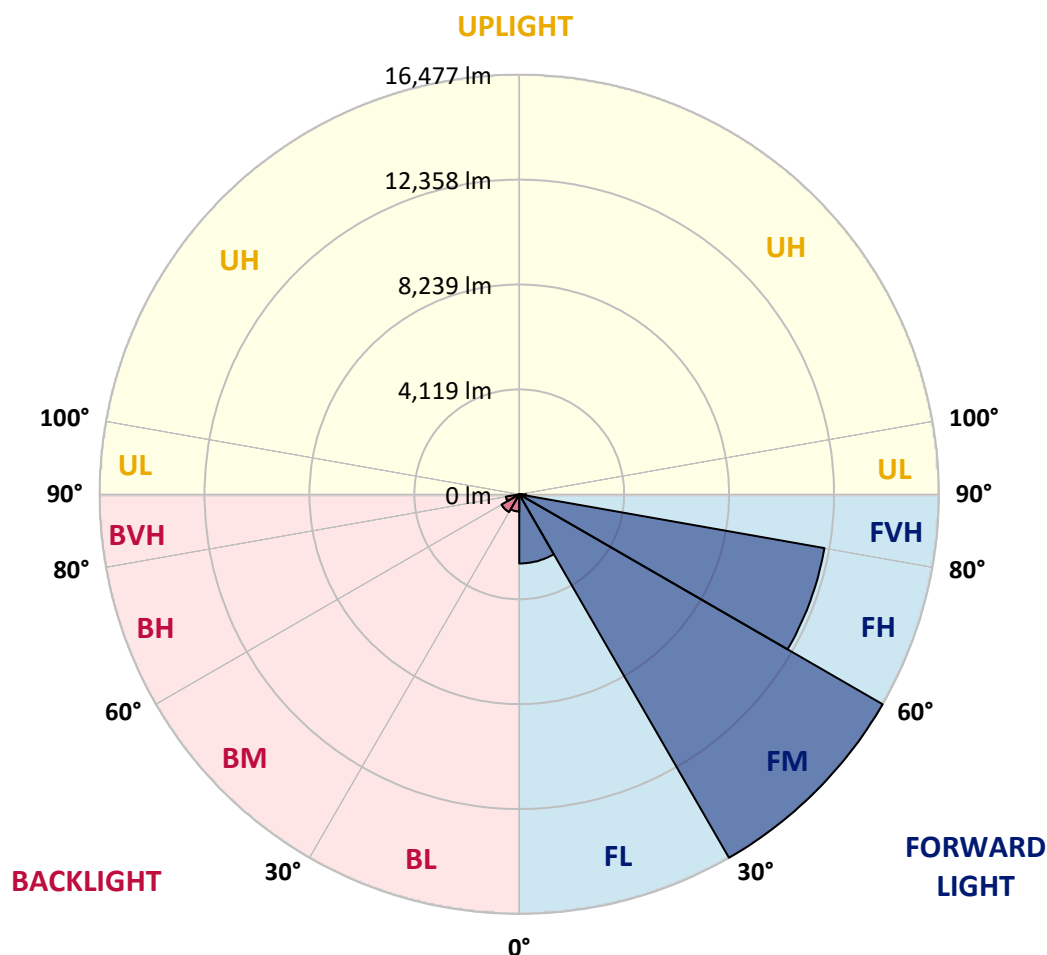
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2715.3	8.1			
FM	(30°-60°)	16477.1	49.0			
FH	(60°-80°)	12169.1	36.2			G5
FVH	(80°-90°)	270.9	0.8			G3/500
BL	(0°-30°)	675.1	2.0	B2/1000		
BM	(30°-60°)	804.8	2.4	B1/1000		
BH	(60°-80°)	532.0	1.6	B2/1000		G2/1000
BVH	(80°-90°)	6.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3829.6	3829.6	3829.6	3829.6	3829.6	3829.6	3829.6	3829.6	3829.6	3829.6	3829.6
2.5°	4507.3	4488.1	4480.1	4444.9	4384.2	4337.9	4248.4	4144.5	4125.3	4024.6	3901.5
5°	5092.3	5076.3	5065.1	5015.6	4953.2	4836.5	4673.5	4480.1	4443.3	4251.6	4005.4
7.5°	5499.8	5528.6	5528.6	5496.6	5418.3	5330.4	5130.6	4866.9	4820.6	4526.5	4144.5
10°	5738.0	5773.2	5800.3	5827.5	5816.3	5781.1	5592.5	5295.3	5239.3	4849.3	4305.9
12.5°	5760.4	5795.5	5872.3	5985.7	6096.0	6175.9	6057.7	5770.0	5706.0	5223.3	4497.7
15°	5635.7	5672.5	5790.7	6011.3	6278.2	6511.6	6549.9	6295.8	6230.3	5669.3	4737.4
17.5°	5418.3	5442.3	5611.7	5917.0	6335.8	6764.1	6995.9	6860.0	6799.3	6179.1	5004.4
20°	5256.9	5274.5	5423.1	5750.8	6300.6	6922.4	7417.8	7459.4	7395.5	6725.8	5293.7
22.5°	5533.4	5565.4	5570.2	5725.2	6204.7	7000.7	7788.6	8049.2	8001.2	7306.0	5578.2
25°	6289.4	6326.2	6204.7	6108.8	6286.2	7035.8	8106.7	8653.3	8615.0	7930.9	5864.3
27.5°	7288.4	7326.7	7170.1	6884.0	6713.0	7168.5	8389.6	9267.1	9265.5	8592.6	6172.7
30°	8269.7	8308.1	8148.3	7862.2	7469.0	7544.1	8634.2	9909.6	9919.2	9275.1	6500.4
32.5°	9299.1	9347.0	9182.4	8814.8	8404.0	8193.0	8977.8	10555.4	10609.7	10066.3	6869.6
35°	10469.0	10475.4	10243.7	9858.5	9385.4	9060.9	9529.2	11279.4	11408.9	11046.0	7337.9
37.5°	11616.6	11663.0	11472.8	10865.4	10430.7	10063.1	10349.2	12184.0	12367.9	12243.2	7950.1
40°	12467.0	12564.4	12537.3	11882.0	11469.6	11207.5	11367.3	13259.7	13493.1	13636.9	8722.1
42.5°	13000.8	13074.3	13199.0	12804.2	12430.2	12473.3	12569.2	14512.8	14800.5	15225.7	9609.1
45°	13613.0	13648.1	13752.0	13577.8	13325.3	13760.0	13844.7	15924.1	16226.2	16934.3	10593.7
47.5°	14361.0	14444.1	14472.9	14313.0	14197.9	14898.0	15073.8	17207.6	17631.1	18764.4	11635.8
50°	15313.6	15335.9	15385.5	15281.6	15166.5	15876.2	16176.7	18555.0	18940.2	20600.8	12663.5
52.5°	16245.4	16325.3	16497.9	16432.4	16386.0	16708.9	17159.6	19769.7	20199.7	22132.0	13689.7
55°	16513.9	16582.6	17178.8	17586.4	17963.6	17735.0	18099.5	20858.2	21323.3	23500.2	14677.4
57.5°	15441.4	15580.5	16613.0	17674.3	19239.1	19330.2	19390.9	21975.4	22392.6	24548.7	15705.2
60°	12730.7	12757.8	14452.1	16272.6	19028.1	20722.3	21276.9	23175.7	23525.8	25525.3	16935.9
62.5°	8097.1	8373.6	10232.5	12802.6	16796.8	20520.9	23557.7	24991.4	25119.3	26696.9	18700.4
65°	3856.8	4035.8	5375.2	7910.1	12166.5	17942.8	25132.1	28276.0	28333.5	29019.2	21058.0
67.5°	2135.4	2221.7	2859.4	4257.9	7112.6	12689.1	24496.0	32166.3	32220.7	31391.1	23126.2
69°	1670.3	1743.8	2245.6	3209.4	4822.2	9120.1	22167.2	33305.9	33467.4	32070.4	23199.7
70°	1417.7	1489.6	1934.0	2710.8	3877.5	7047.0	19731.3	33023.0	33194.1	32006.5	22651.5
72.5°	867.9	909.4	1288.3	1908.4	2598.9	3545.1	12168.1	27927.6	28216.9	29359.7	19467.6
75°	585.0	607.4	805.6	1317.0	1858.9	1825.3	6321.4	19685.0	20311.5	22838.5	14378.6
77.5°	418.8	439.5	540.2	851.9	1302.6	1205.1	2862.6	12233.6	12367.9	13697.7	7841.4
80°	238.2	257.3	382.0	506.7	883.9	804.0	1138.0	5843.5	5910.6	5873.9	2618.1
82.5°	124.7	140.7	209.4	334.1	567.4	525.8	473.1	1956.4	1965.9	1635.1	573.8
85°	24.0	28.8	103.9	228.6	292.5	228.6	193.4	458.7	468.3	414.0	142.3
87.5°	0.0	1.6	41.6	51.1	57.5	59.1	62.3	89.5	95.9	129.5	38.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3829.6	3829.6	3829.6	3829.6	3829.6	3829.6	3829.6	3829.6	3829.6	3829.6	3829.6
2.5°	3847.2	3789.6	3679.3	3551.5	3452.4	3354.9	3278.2	3198.3	3169.5	3155.1	3153.5
5°	3885.5	3764.1	3530.7	3291.0	3094.4	2909.0	2776.3	2650.0	2590.9	2563.7	2552.5
7.5°	3949.5	3754.5	3378.9	3012.8	2729.9	2498.2	2314.4	2176.9	2108.2	2079.4	2068.2
10°	4024.6	3741.7	3201.4	2718.8	2357.5	2117.8	1935.6	1799.7	1724.6	1692.6	1676.6
12.5°	4112.5	3719.3	2996.9	2421.5	2039.5	1799.7	1579.1	1411.3	1325.0	1288.3	1270.7
15°	4221.2	3696.9	2782.7	2141.8	1759.8	1467.3	1225.9	1112.4	1094.9	1088.5	1090.1
17.5°	4328.3	3661.8	2549.3	1865.2	1465.7	1146.0	1022.9	1016.5	1019.7	1019.7	1019.7
20°	4424.2	3581.9	2295.2	1628.7	1186.0	967.0	941.4	930.2	922.2	915.8	907.8
22.5°	4499.3	3474.8	2050.7	1393.7	968.6	885.5	845.5	810.4	781.6	762.4	752.8
25°	4550.4	3332.5	1826.9	1168.4	871.1	805.6	733.6	674.5	629.7	602.6	591.4
27.5°	4588.8	3179.1	1627.1	978.2	804.0	712.9	618.6	548.2	501.9	477.9	468.3
30°	4616.0	3004.9	1451.3	859.9	728.8	615.4	514.7	445.9	412.4	399.6	393.2
32.5°	4641.5	2811.5	1285.1	804.0	658.5	525.8	431.5	378.8	358.0	342.0	337.2
35°	4705.5	2632.4	1126.8	744.8	586.6	449.1	370.8	332.5	311.7	302.1	298.9
37.5°	4857.3	2499.8	975.0	684.1	514.7	388.4	324.5	297.3	278.1	268.5	265.3
40°	5101.9	2432.7	847.1	618.6	444.3	342.0	294.1	268.5	247.7	233.4	230.2
42.5°	5461.5	2442.2	757.6	553.0	388.4	305.3	265.3	235.0	212.6	199.8	196.6
45°	5897.8	2512.6	695.3	489.1	342.0	276.5	233.4	201.4	180.6	169.4	166.2
47.5°	6370.9	2626.1	644.1	431.5	305.3	249.3	201.4	167.8	150.2	140.7	139.1
50°	6869.6	2736.3	591.4	375.6	273.3	222.2	169.4	139.1	124.7	116.7	113.5
52.5°	7374.7	2864.2	543.4	324.5	246.1	190.2	140.7	113.5	102.3	95.9	92.7
55°	7918.1	2960.1	497.1	284.5	219.0	161.4	116.7	94.3	84.7	76.7	75.1
57.5°	8557.4	3108.7	449.1	246.1	187.0	134.3	95.9	75.1	67.1	59.1	57.5
60°	9420.5	3283.0	398.0	217.4	153.4	110.3	78.3	60.7	51.1	44.8	43.2
62.5°	10558.5	3476.4	334.1	190.2	124.7	89.5	62.3	47.9	36.8	28.8	28.8
65°	12001.8	3791.2	273.3	159.8	102.3	73.5	47.9	35.2	20.8	12.8	12.8
67.5°	12844.2	3845.6	220.6	131.1	83.1	62.3	40.0	24.0	6.4	1.6	0.0
69°	12574.0	3530.7	187.0	111.9	71.9	59.1	36.8	17.6	3.2	0.0	0.0
70°	12065.8	3228.6	164.6	99.1	65.5	55.9	35.2	12.8	3.2	0.0	0.0
72.5°	9970.4	2298.4	124.7	73.5	47.9	49.5	32.0	8.0	3.2	0.0	0.0
75°	7262.8	1396.9	89.5	51.1	30.4	36.8	22.4	3.2	1.6	0.0	0.0
77.5°	4040.6	658.5	55.9	28.8	19.2	22.4	11.2	0.0	0.0	0.0	0.0
80°	1312.2	179.0	25.6	16.0	11.2	12.8	4.8	0.0	0.0	0.0	0.0
82.5°	242.9	51.1	14.4	8.0	3.2	3.2	0.0	0.0	0.0	0.0	0.0
85°	52.7	20.8	8.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.6	6.4	1.6	0.0	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)