

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: P321991

Luminaire Tested: **GAN-SA7A-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321991
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-SA7A-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA 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: 23449 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

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

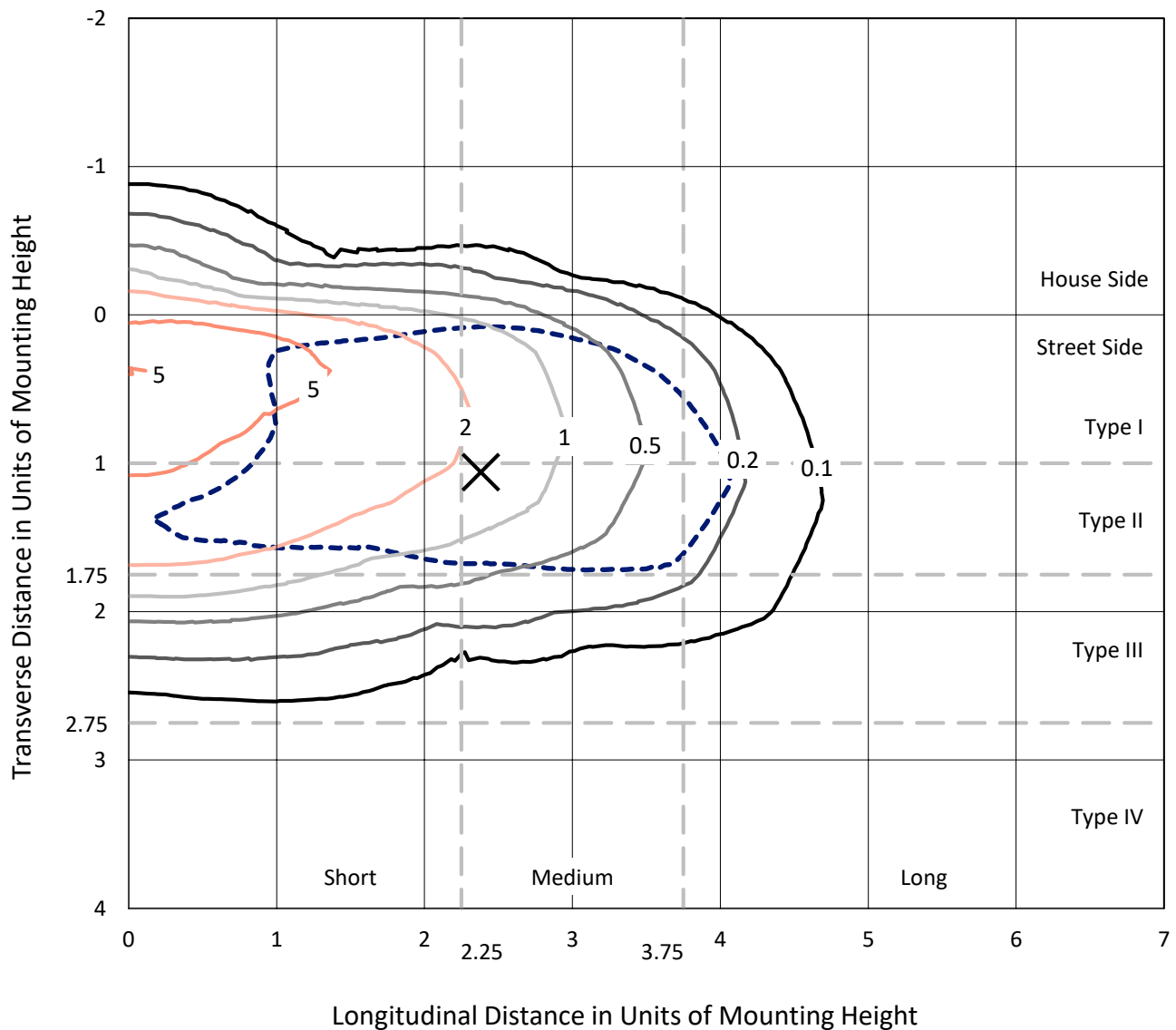


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Iso-Footcandle Lines of Horizontal Illumination

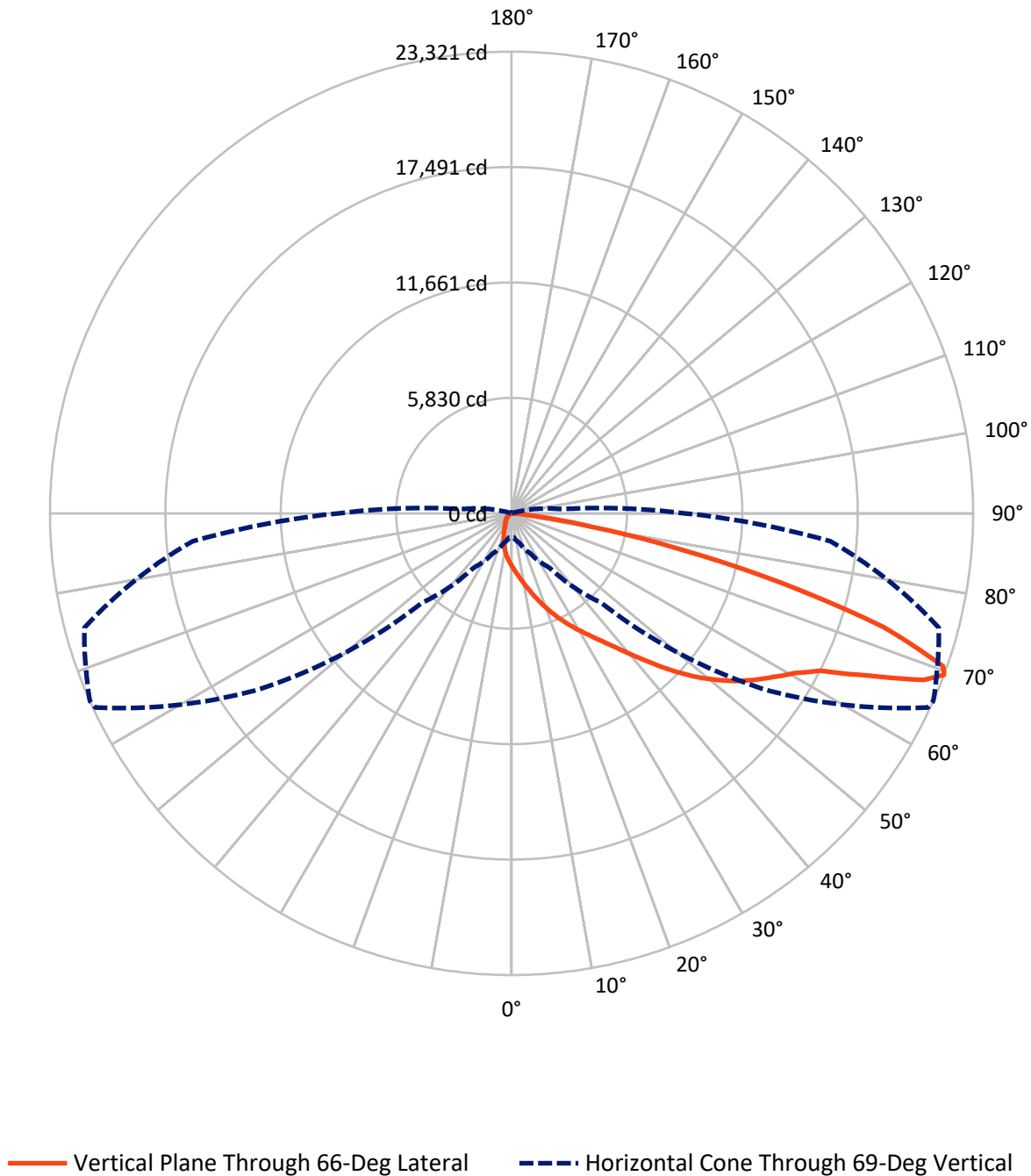
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	1406.6	0.0	1406.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	22042.4	0.0	22042.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	23449.0	0.0	23449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	1.1
10°-20°	767.7	3.3
20°-30°	1336.9	5.7
30°-40°	2345.5	10.0
40°-50°	3926.1	16.7
50°-60°	5771.0	24.6
60°-70°	5925.3	25.3
70°-80°	2925.2	12.5
80°-90°	193.4	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°	23449.0	100.0
0°-180°	23449.0	100.0

Coefficient of Utilization



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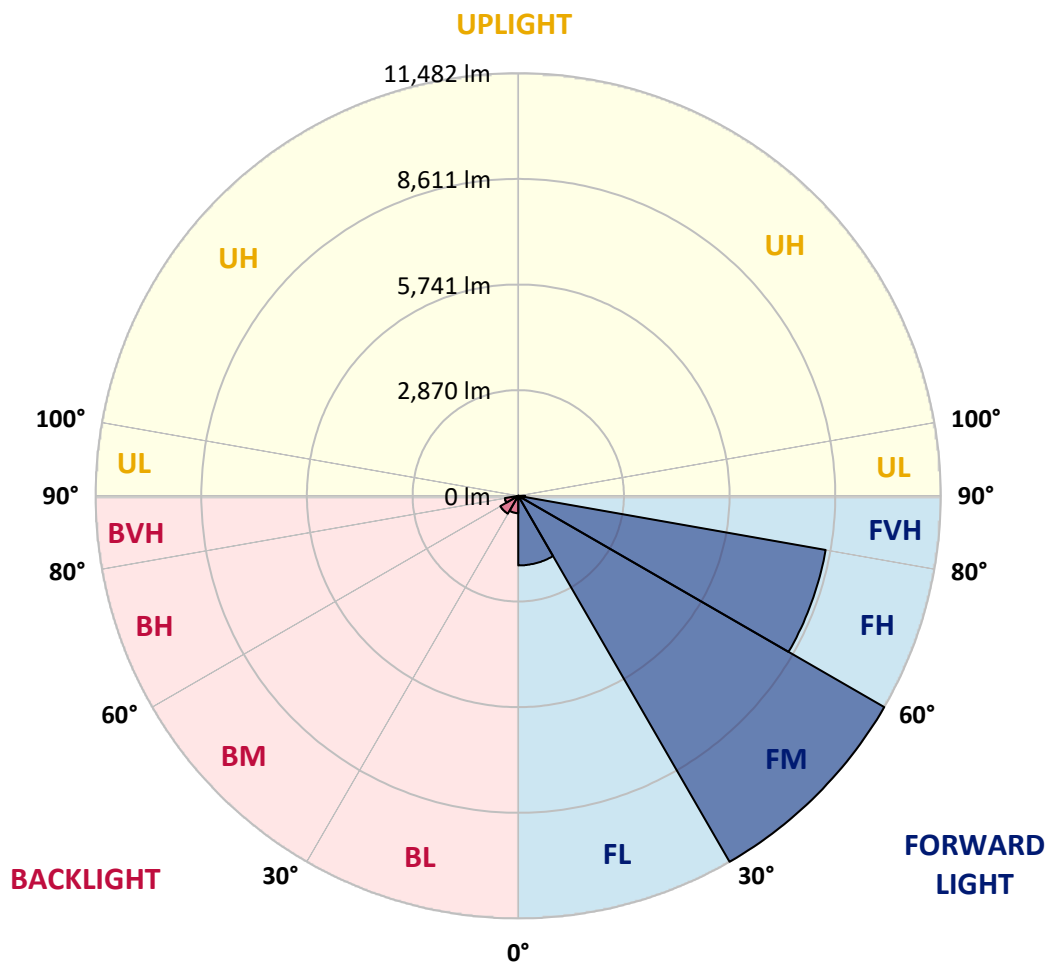
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1892.1	8.1			
FM	(30°-60°)	11481.7	49.0			
FH	(60°-80°)	8479.8	36.2			G4/12000
FVH	(80°-90°)	188.7	0.8			G2/225
BL	(0°-30°)	470.4	2.0	B1/500		
BM	(30°-60°)	560.8	2.4	B1/1000		
BH	(60°-80°)	370.7	1.6	B1/500		G1/500
BVH	(80°-90°)	4.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6
2.5°	3140.8	3127.4	3121.9	3097.4	3055.0	3022.7	2960.4	2888.0	2874.6	2804.5	2718.7
5°	3548.4	3537.3	3529.5	3495.0	3451.5	3370.2	3256.6	3121.9	3096.3	2962.6	2791.1
7.5°	3832.5	3852.5	3852.5	3830.2	3775.6	3714.4	3575.2	3391.4	3359.1	3154.2	2888.0
10°	3998.4	4022.9	4041.8	4060.8	4053.0	4028.5	3897.0	3689.9	3650.9	3379.2	3000.5
12.5°	4014.0	4038.5	4092.0	4171.0	4247.9	4303.6	4221.2	4020.7	3976.1	3639.8	3134.1
15°	3927.1	3952.7	4035.2	4188.9	4374.9	4537.5	4564.2	4387.1	4341.4	3950.5	3301.2
17.5°	3775.6	3792.4	3910.4	4123.1	4414.9	4713.4	4874.9	4780.3	4737.9	4305.8	3487.2
20°	3663.2	3675.4	3779.0	4007.3	4390.4	4823.7	5169.0	5197.9	5153.4	4686.7	3688.8
22.5°	3855.8	3878.1	3881.5	3989.5	4323.6	4878.3	5427.4	5608.9	5575.5	5091.0	3887.0
25°	4382.6	4408.3	4323.6	4256.8	4380.4	4902.8	5649.0	6029.9	6003.2	5526.5	4086.4
27.5°	5078.8	5105.5	4996.3	4797.0	4677.8	4995.2	5846.1	6457.6	6456.5	5987.6	4301.3
30°	5762.6	5789.3	5678.0	5478.6	5204.6	5257.0	6016.5	6905.3	6912.0	6463.2	4529.7
32.5°	6479.9	6513.3	6398.6	6142.4	5856.2	5709.1	6256.0	7355.3	7393.1	7014.5	4786.9
35°	7295.1	7299.6	7138.1	6869.7	6540.0	6313.9	6640.2	7859.8	7950.0	7697.2	5113.3
37.5°	8094.8	8127.1	7994.6	7571.3	7268.4	7012.2	7211.6	8490.2	8618.3	8531.4	5539.8
40°	8687.3	8755.3	8736.3	8279.7	7992.3	7809.7	7921.1	9239.8	9402.4	9502.6	6077.8
42.5°	9059.3	9110.6	9197.4	8922.3	8661.7	8691.8	8758.6	10113.0	10313.4	10609.7	6695.9
45°	9485.9	9510.4	9582.8	9461.4	9285.4	9588.4	9647.4	11096.4	11306.9	11800.3	7382.0
47.5°	10007.1	10065.1	10085.1	9973.7	9893.5	10381.4	10503.9	11990.8	12285.9	13075.6	8108.2
50°	10670.9	10686.5	10721.1	10648.7	10568.5	11063.0	11272.4	12929.7	13198.1	14355.3	8824.3
52.5°	11320.3	11376.0	11496.2	11450.6	11418.3	11643.3	11957.3	13776.1	14075.7	15422.2	9539.4
55°	11507.4	11555.3	11970.7	12254.7	12517.6	12358.3	12612.2	14534.6	14858.7	16375.6	10227.7
57.5°	10760.0	10856.9	11576.4	12316.0	13406.3	13469.8	13512.1	15313.1	15603.8	17106.3	10943.8
60°	8871.1	8890.0	10070.6	11339.2	13259.3	14439.9	14826.4	16149.5	16393.4	17786.8	11801.4
62.5°	5642.3	5835.0	7130.3	8921.2	11704.5	14299.6	16415.7	17414.8	17503.9	18603.2	13031.0
65°	2687.5	2812.2	3745.6	5512.0	8477.9	12503.1	17512.8	19703.5	19743.6	20221.4	14673.8
67.5°	1488.0	1548.1	1992.5	2967.1	4956.2	8842.1	17069.5	22414.4	22452.3	21874.3	16115.0
69°	1163.9	1215.1	1564.8	2236.4	3360.2	6355.1	15446.8	23208.6	23321.0	22347.6	16166.2
70°	987.9	1038.0	1347.7	1888.9	2702.0	4910.6	13749.4	23011.4	23130.6	22303.1	15784.2
72.5°	604.8	633.7	897.7	1329.8	1811.0	2470.3	8479.1	19460.7	19662.3	20458.7	13565.6
75°	407.6	423.2	561.3	917.7	1295.3	1271.9	4404.9	13717.1	14153.7	15914.5	10019.4
77.5°	291.8	306.3	376.5	593.6	907.7	839.8	1994.7	8524.7	8618.3	9544.9	5464.1
80°	166.0	179.3	266.2	353.1	615.9	560.2	793.0	4071.9	4118.7	4093.1	1824.3
82.5°	86.9	98.0	145.9	232.8	395.4	366.4	329.7	1363.2	1369.9	1139.4	399.8
85°	16.7	20.0	72.4	159.3	203.8	159.3	134.8	319.6	326.3	288.5	99.1
87.5°	0.0	1.1	29.0	35.6	40.1	41.2	43.4	62.4	66.8	90.2	26.7
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°	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6	2668.6
2.5°	2680.8	2640.7	2563.9	2474.8	2405.7	2337.8	2284.3	2228.6	2208.6	2198.6	2197.5
5°	2707.6	2622.9	2460.3	2293.2	2156.2	2027.0	1934.6	1846.6	1805.4	1786.5	1778.7
7.5°	2752.1	2616.2	2354.5	2099.4	1902.3	1740.8	1612.7	1516.9	1469.1	1449.0	1441.2
10°	2804.5	2607.3	2230.9	1894.5	1642.8	1475.7	1348.8	1254.1	1201.7	1179.5	1168.3
12.5°	2865.7	2591.7	2088.3	1687.3	1421.2	1254.1	1100.4	983.5	923.3	897.7	885.4
15°	2941.4	2576.1	1939.1	1492.4	1226.3	1022.4	854.3	775.2	762.9	758.5	759.6
17.5°	3016.1	2551.6	1776.4	1299.8	1021.3	798.6	712.8	708.4	710.6	710.6	710.6
20°	3082.9	2495.9	1599.4	1134.9	826.4	673.8	656.0	648.2	642.6	638.2	632.6
22.5°	3135.2	2421.3	1429.0	971.2	674.9	617.0	589.2	564.7	544.6	531.3	524.6
25°	3170.9	2322.2	1273.0	814.2	607.0	561.3	511.2	470.0	438.8	419.9	412.1
27.5°	3197.6	2215.3	1133.8	681.6	560.2	496.7	431.0	382.0	349.7	333.0	326.3
30°	3216.5	2093.9	1011.3	599.2	507.9	428.8	358.6	310.7	287.4	278.4	274.0
32.5°	3234.4	1959.1	895.5	560.2	458.9	366.4	300.7	264.0	249.5	238.3	235.0
35°	3278.9	1834.4	785.2	519.0	408.8	313.0	258.4	231.7	217.2	210.5	208.3
37.5°	3384.7	1741.9	679.4	476.7	358.6	270.6	226.1	207.2	193.8	187.1	184.9
40°	3555.1	1695.1	590.3	431.0	309.6	238.3	204.9	187.1	172.6	162.6	160.4
42.5°	3805.7	1701.8	527.9	385.4	270.6	212.7	184.9	163.7	148.1	139.2	137.0
45°	4109.8	1750.8	484.5	340.8	238.3	192.7	162.6	140.3	125.9	118.1	115.8
47.5°	4439.5	1829.9	448.8	300.7	212.7	173.7	140.3	116.9	104.7	98.0	96.9
50°	4786.9	1906.8	412.1	261.7	190.5	154.8	118.1	96.9	86.9	81.3	79.1
52.5°	5138.9	1995.9	378.7	226.1	171.5	132.5	98.0	79.1	71.3	66.8	64.6
55°	5517.6	2062.7	346.4	198.2	152.6	112.5	81.3	65.7	59.0	53.5	52.3
57.5°	5963.1	2166.3	313.0	171.5	130.3	93.6	66.8	52.3	46.8	41.2	40.1
60°	6564.5	2287.7	277.3	151.5	106.9	76.8	54.6	42.3	35.6	31.2	30.1
62.5°	7357.5	2422.4	232.8	132.5	86.9	62.4	43.4	33.4	25.6	20.0	20.0
65°	8363.2	2641.8	190.5	111.4	71.3	51.2	33.4	24.5	14.5	8.9	8.9
67.5°	8950.2	2679.7	153.7	91.3	57.9	43.4	27.8	16.7	4.5	1.1	0.0
69°	8762.0	2460.3	130.3	78.0	50.1	41.2	25.6	12.3	2.2	0.0	0.0
70°	8407.8	2249.8	114.7	69.1	45.7	39.0	24.5	8.9	2.2	0.0	0.0
72.5°	6947.6	1601.6	86.9	51.2	33.4	34.5	22.3	5.6	2.2	0.0	0.0
75°	5060.9	973.4	62.4	35.6	21.2	25.6	15.6	2.2	1.1	0.0	0.0
77.5°	2815.6	458.9	39.0	20.0	13.4	15.6	7.8	0.0	0.0	0.0	0.0
80°	914.4	124.7	17.8	11.1	7.8	8.9	3.3	0.0	0.0	0.0	0.0
82.5°	169.3	35.6	10.0	5.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	36.8	14.5	5.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	4.5	1.1	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)