

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: P322963

Luminaire Tested: **GAN-SA9B-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37028 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

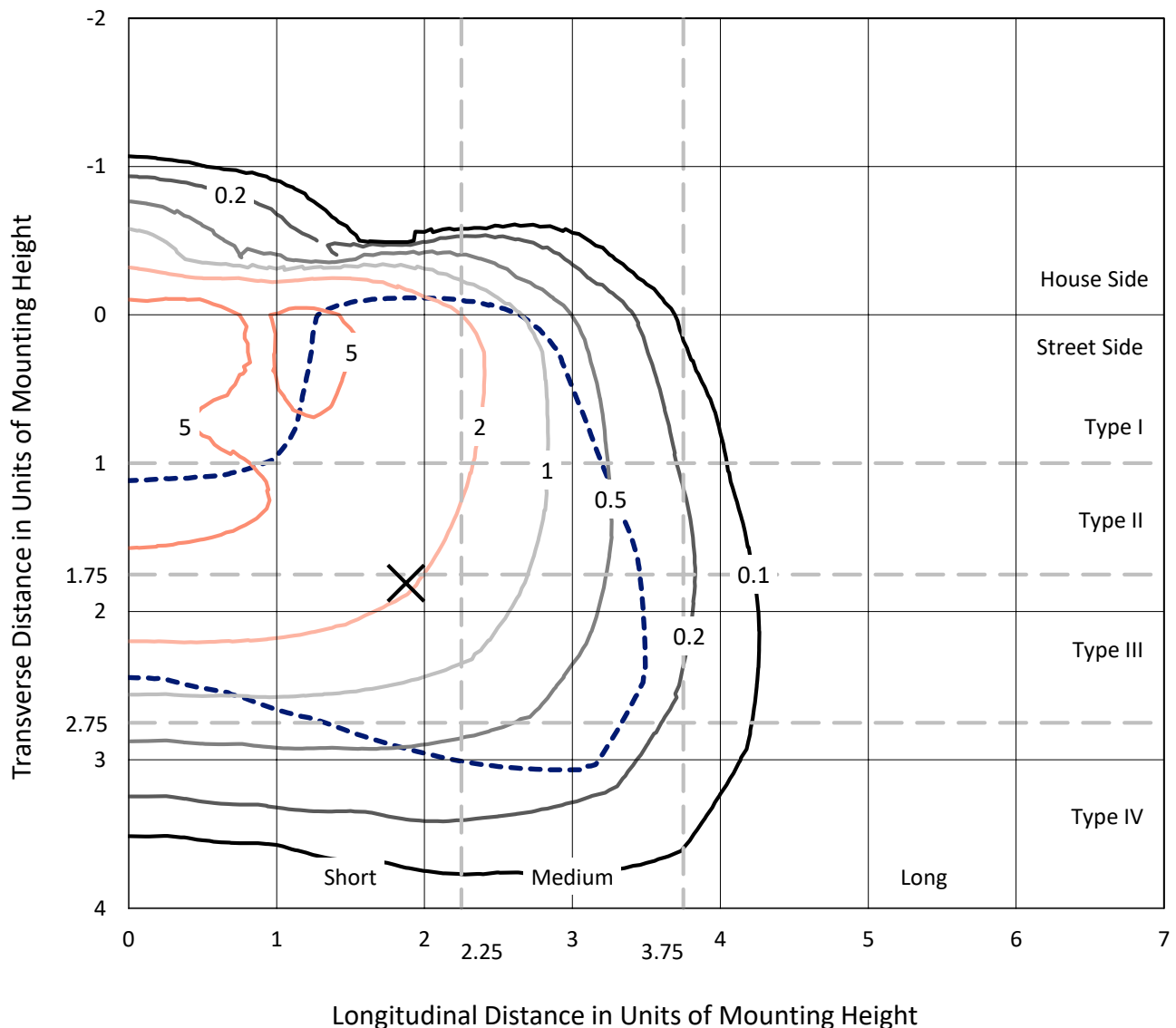
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

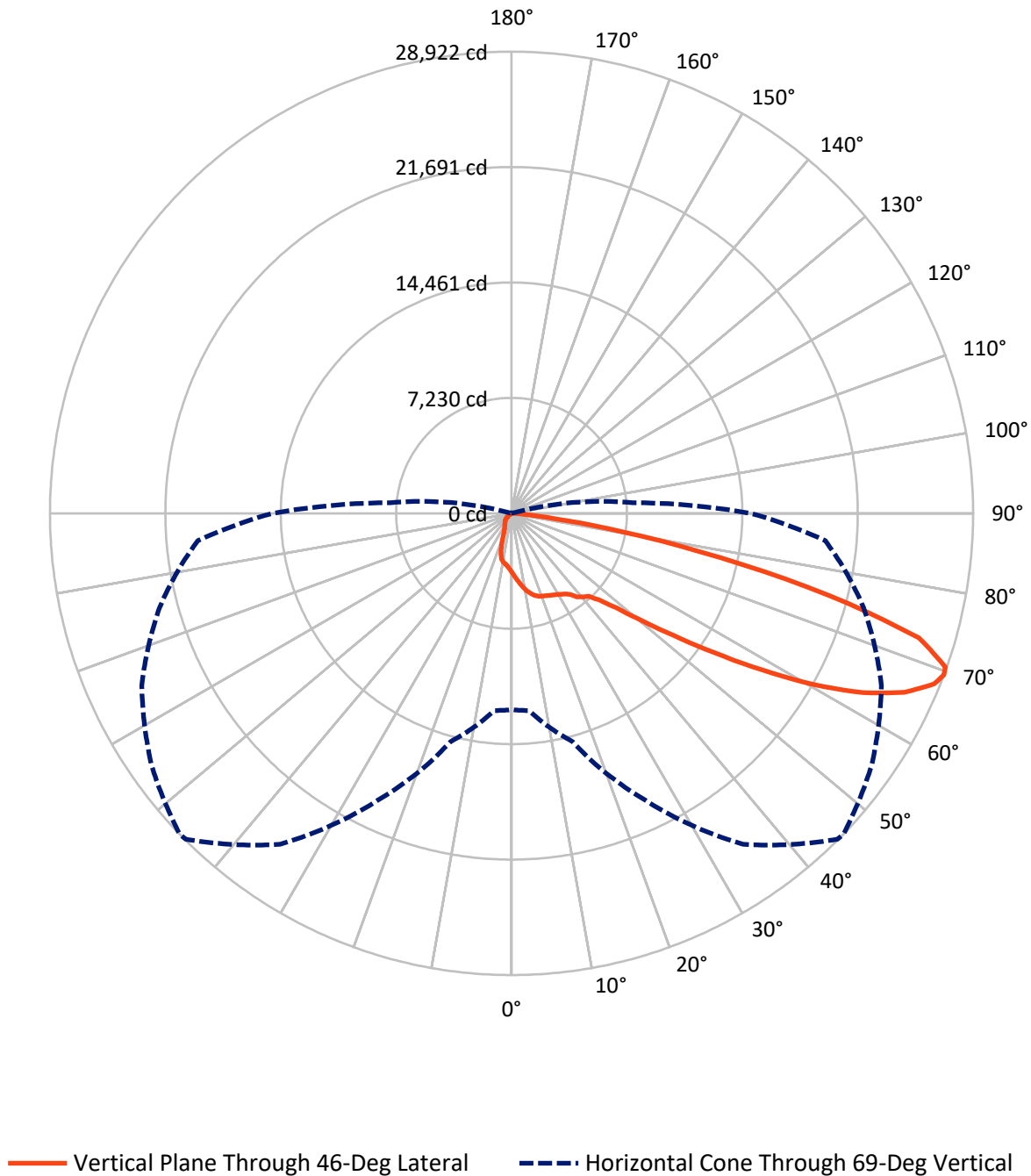
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3800.1	0.0	3800.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	33227.9	0.0	33227.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	37028.0	0.0	37028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.3	1.0
10°-20°	1120.3	3.0
20°-30°	1761.9	4.8
30°-40°	2526.5	6.8
40°-50°	4366.8	11.8
50°-60°	8627.0	23.3
60°-70°	12057.0	32.6
70°-80°	5824.8	15.7
80°-90°	374.4	1.0
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°	37028.0	100.0
0°-180°	37028.0	100.0

Coefficient of Utilization



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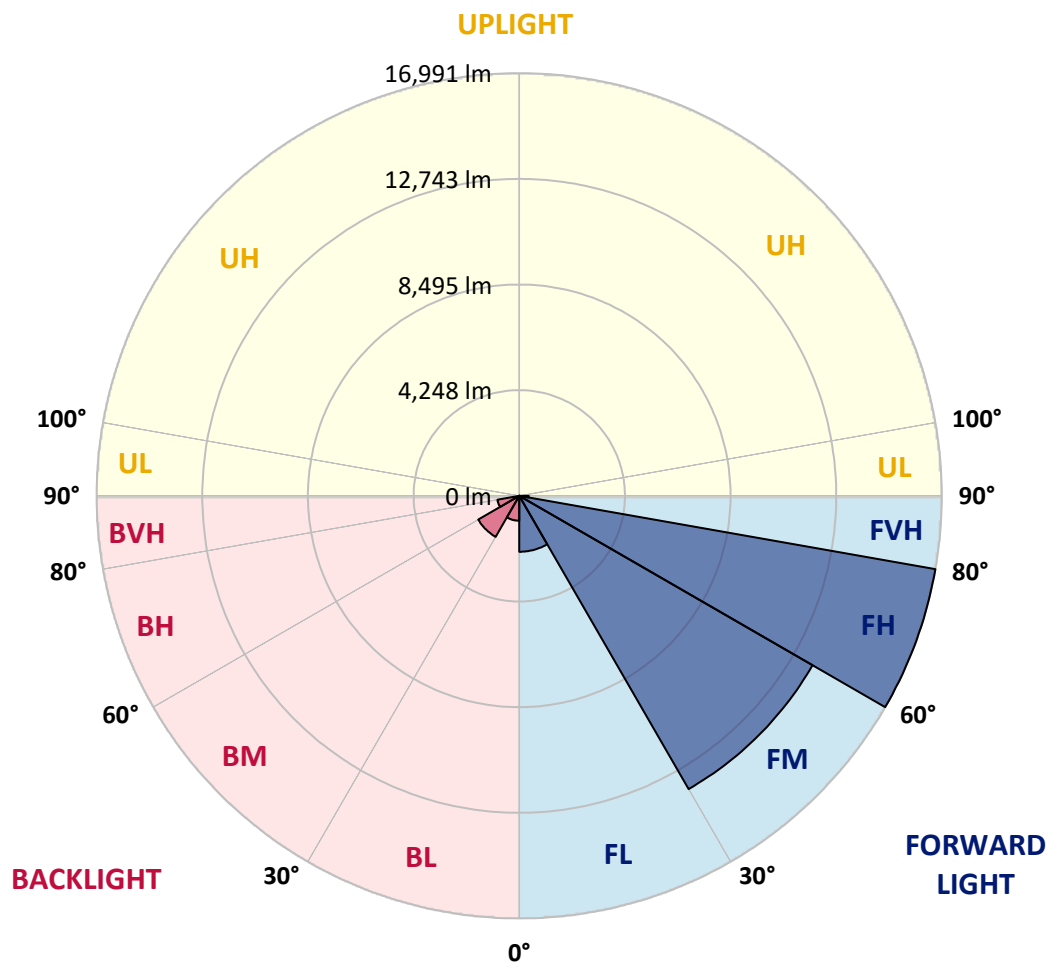
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2249.9	6.1			
FM	(30°-60°)	13616.0	36.8			
FH	(60°-80°)	16990.8	45.9			G5
FVH	(80°-90°)	371.2	1.0			G3/500
BL	(0°-30°)	1001.6	2.7	B3/2500		
BM	(30°-60°)	1904.3	5.1	B2/2500		
BH	(60°-80°)	891.0	2.4	B2/1000		G2/1000
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1
2.5°	4121.5	4116.3	4092.0	4081.6	4022.6	3987.8	3974.0	3930.6	3868.1	3805.6	3736.1
5°	4590.3	4588.5	4543.4	4500.0	4388.9	4284.7	4265.6	4164.9	4024.3	3892.4	3760.4
7.5°	5069.4	5046.9	5001.7	4918.4	4756.9	4590.3	4574.7	4432.3	4232.6	4041.7	3852.4
10°	5475.7	5461.8	5402.8	5276.0	5086.8	4897.6	4878.5	4703.1	4477.4	4243.1	4001.7
12.5°	5791.7	5781.2	5703.1	5545.1	5343.7	5147.6	5121.5	4965.3	4724.0	4461.8	4177.1
15°	5984.4	5979.2	5883.7	5715.3	5517.4	5347.2	5324.6	5187.5	4963.5	4689.2	4368.1
17.5°	6029.5	6031.2	5932.3	5762.1	5599.0	5477.4	5460.1	5355.9	5168.4	4895.8	4559.0
20°	5928.8	5949.6	5861.1	5713.5	5612.8	5548.6	5534.7	5472.2	5314.2	5057.3	4711.8
22.5°	5786.5	5796.9	5736.1	5637.1	5595.5	5607.6	5600.7	5566.0	5432.3	5196.2	4862.8
25°	5699.6	5699.6	5663.2	5579.9	5607.6	5682.3	5684.0	5677.1	5571.2	5366.3	5046.9
27.5°	5696.2	5685.8	5644.1	5581.6	5658.0	5772.6	5779.5	5826.4	5760.4	5572.9	5276.0
30°	5835.1	5822.9	5734.4	5652.8	5750.0	5873.3	5890.6	5993.1	5960.1	5796.9	5531.2
32.5°	6159.7	6116.3	5920.1	5786.5	5859.4	6006.9	6029.5	6192.7	6244.8	6072.9	5777.8
35°	6604.2	6467.0	6184.0	6039.9	6046.9	6201.4	6222.2	6461.8	6616.3	6326.4	5968.7
37.5°	7217.0	7149.3	6689.2	6303.8	6335.1	6569.4	6630.2	6890.6	6847.2	6465.3	6185.8
40°	8560.8	8454.9	7965.3	7043.4	6611.1	6868.1	6887.1	7026.0	7029.5	6779.5	6637.1
42.5°	10390.6	10347.2	9831.6	8385.4	7154.5	7067.7	7102.4	7336.8	7599.0	7442.7	7435.8
45°	12416.7	12394.1	11847.2	10166.7	8253.5	7722.2	7765.6	8079.9	8581.6	8616.3	8836.8
47.5°	14046.9	14036.4	13722.2	12154.5	9935.8	8831.6	8845.5	9178.8	10060.8	10496.5	10849.0
50°	15533.0	15583.3	15335.1	14305.5	12227.4	10569.4	10536.5	10758.7	12175.3	12888.9	13326.4
52.5°	17598.9	17670.1	16973.9	16312.5	14631.9	12725.7	12699.6	12932.3	14717.0	15251.7	15329.9
55°	19423.6	19302.1	18751.7	18560.8	17564.2	15388.9	15381.9	15586.8	17175.3	17402.8	17546.9
57.5°	20229.2	20182.3	20447.9	20885.4	20635.4	18536.4	18520.8	18364.6	19375.0	19399.3	19842.0
60°	20737.8	20795.1	21609.4	22958.3	23581.6	21923.6	21822.9	20869.8	21475.7	21421.9	21895.8
62.5°	20355.9	20468.7	21934.0	24182.3	25786.4	24880.2	24737.8	23164.9	23270.8	23085.1	23526.0
65°	18328.1	18503.5	20904.5	23951.4	26880.2	27191.0	27046.9	25191.0	24696.2	24390.6	24145.8
67.5°	14881.9	14986.1	17493.0	21942.7	26387.1	28569.4	28539.9	26967.0	25772.6	24170.1	22270.8
69°	12298.6	12401.0	14814.2	19828.1	25302.1	28864.6	28921.9	27536.4	25567.7	22829.8	19732.6
70°	10416.7	10526.0	12774.3	18015.6	24043.4	28727.4	28829.8	27482.6	24980.9	21277.8	17505.2
72.5°	5463.5	5557.3	7864.6	12411.5	19600.7	26378.5	26689.2	25159.7	21175.3	15453.1	10350.7
75°	1717.0	1770.8	3071.2	6487.8	13420.1	20510.4	20581.6	19736.1	15036.4	8500.0	4310.8
77.5°	654.5	638.9	1022.6	2390.6	6784.7	12914.9	13350.7	12333.3	7890.6	3005.2	994.8
80°	352.4	354.2	531.2	989.6	2902.8	6637.1	7005.2	5977.4	2803.8	937.5	229.2
82.5°	152.8	159.7	298.6	524.3	1333.3	2447.9	2631.9	2191.0	1071.2	630.2	85.1
85°	33.0	36.5	144.1	284.7	543.4	687.5	720.5	710.1	682.3	489.6	33.0
87.5°	0.0	0.0	64.2	102.4	137.2	156.2	137.2	178.8	376.7	329.9	17.4
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°	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1	3710.1
2.5°	3713.5	3682.3	3628.5	3569.4	3527.8	3484.4	3449.7	3434.0	3416.7	3404.5	3420.1
5°	3706.6	3645.8	3541.7	3441.0	3368.1	3309.0	3260.4	3241.3	3222.2	3208.3	3206.6
7.5°	3767.4	3682.3	3522.6	3375.0	3262.2	3182.3	3116.3	3088.5	3066.0	3055.6	3046.9
10°	3883.7	3774.3	3560.8	3368.1	3222.2	3086.8	2944.4	2835.1	2763.9	2730.9	2718.7
12.5°	4034.7	3897.6	3633.7	3404.5	3192.7	2932.3	2630.2	2369.8	2201.4	2145.8	2112.8
15°	4211.8	4041.7	3729.2	3451.4	3085.1	2609.4	2097.2	1756.9	1600.7	1569.4	1534.7
17.5°	4381.9	4194.4	3843.7	3460.1	2849.0	2085.1	1536.5	1305.6	1244.8	1265.6	1270.8
20°	4531.2	4345.5	3956.6	3383.7	2420.1	1564.2	1189.2	1131.9	1154.5	1194.4	1201.4
22.5°	4682.3	4491.3	4060.8	3182.3	1871.5	1187.5	1071.2	1085.1	1107.6	1147.6	1154.5
25°	4866.3	4668.4	4158.0	2812.5	1404.5	1010.4	1017.4	1038.2	1060.8	1097.2	1100.7
27.5°	5078.1	4892.4	4222.2	2331.6	1041.7	928.8	951.4	982.6	1005.2	1039.9	1046.9
30°	5359.4	5187.5	4243.1	1833.3	873.3	855.9	866.3	904.5	937.5	968.7	974.0
32.5°	5623.3	5479.2	4173.6	1383.7	809.0	788.2	788.2	810.8	849.0	878.5	885.4
35°	5866.3	5772.6	3951.4	1012.2	760.4	725.7	708.3	708.3	732.6	756.9	763.9
37.5°	6187.5	6184.0	3592.0	807.3	713.5	673.6	637.2	609.4	600.7	605.9	609.4
40°	6737.8	6743.1	3123.3	724.0	673.6	619.8	564.2	513.9	467.0	451.4	449.7
42.5°	7597.2	7519.1	2631.9	684.0	638.9	564.2	480.9	413.2	340.3	317.7	316.0
45°	8961.8	8498.3	2111.1	647.6	602.4	501.7	397.6	305.6	246.5	229.2	229.2
47.5°	10949.6	9784.7	1635.4	607.6	553.8	430.6	300.3	220.5	180.6	171.9	173.6
50°	13005.2	11045.1	1253.5	557.3	494.8	355.9	222.2	159.7	137.2	137.2	138.9
52.5°	14828.1	11968.7	977.4	503.5	421.9	279.5	168.4	125.0	114.6	112.8	114.6
55°	16534.7	12564.2	748.3	441.0	335.1	208.3	128.5	102.4	95.5	92.0	90.3
57.5°	18180.5	12859.4	560.8	355.9	243.1	151.0	102.4	86.8	79.9	74.7	72.9
60°	19276.0	12619.8	385.4	262.2	168.4	109.4	85.1	74.7	66.0	60.8	59.0
62.5°	19894.1	11965.3	248.3	189.2	119.8	81.6	67.7	62.5	50.3	45.1	45.1
65°	19644.1	10885.4	173.6	135.4	86.8	60.8	50.3	50.3	36.5	29.5	27.8
67.5°	17408.0	9196.2	131.9	100.7	62.5	45.1	38.2	43.4	22.6	13.9	13.9
69°	14977.4	7621.5	112.8	83.3	52.1	36.5	33.0	39.9	15.6	10.4	8.7
70°	13017.4	6574.6	102.4	72.9	43.4	31.2	29.5	38.2	15.6	8.7	6.9
72.5°	7788.2	3666.7	78.1	52.1	27.8	24.3	24.3	43.4	15.6	8.7	6.9
75°	3147.6	1291.7	57.3	36.5	20.8	20.8	29.5	55.6	13.9	6.9	5.2
77.5°	713.5	283.0	33.0	22.6	13.9	20.8	34.7	43.4	8.7	3.5	0.0
80°	173.6	69.4	20.8	13.9	8.7	15.6	26.0	24.3	1.7	0.0	0.0
82.5°	57.3	24.3	8.7	6.9	1.7	5.2	12.2	6.9	0.0	0.0	0.0
85°	24.3	13.9	3.5	1.7	0.0	0.0	1.7	0.0	0.0	0.0	0.0
87.5°	15.6	5.2	0.0	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)