

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: P322971

Luminaire Tested: **GAN-SA7C-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322971
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-SA7C-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1050mA 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: 36261 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

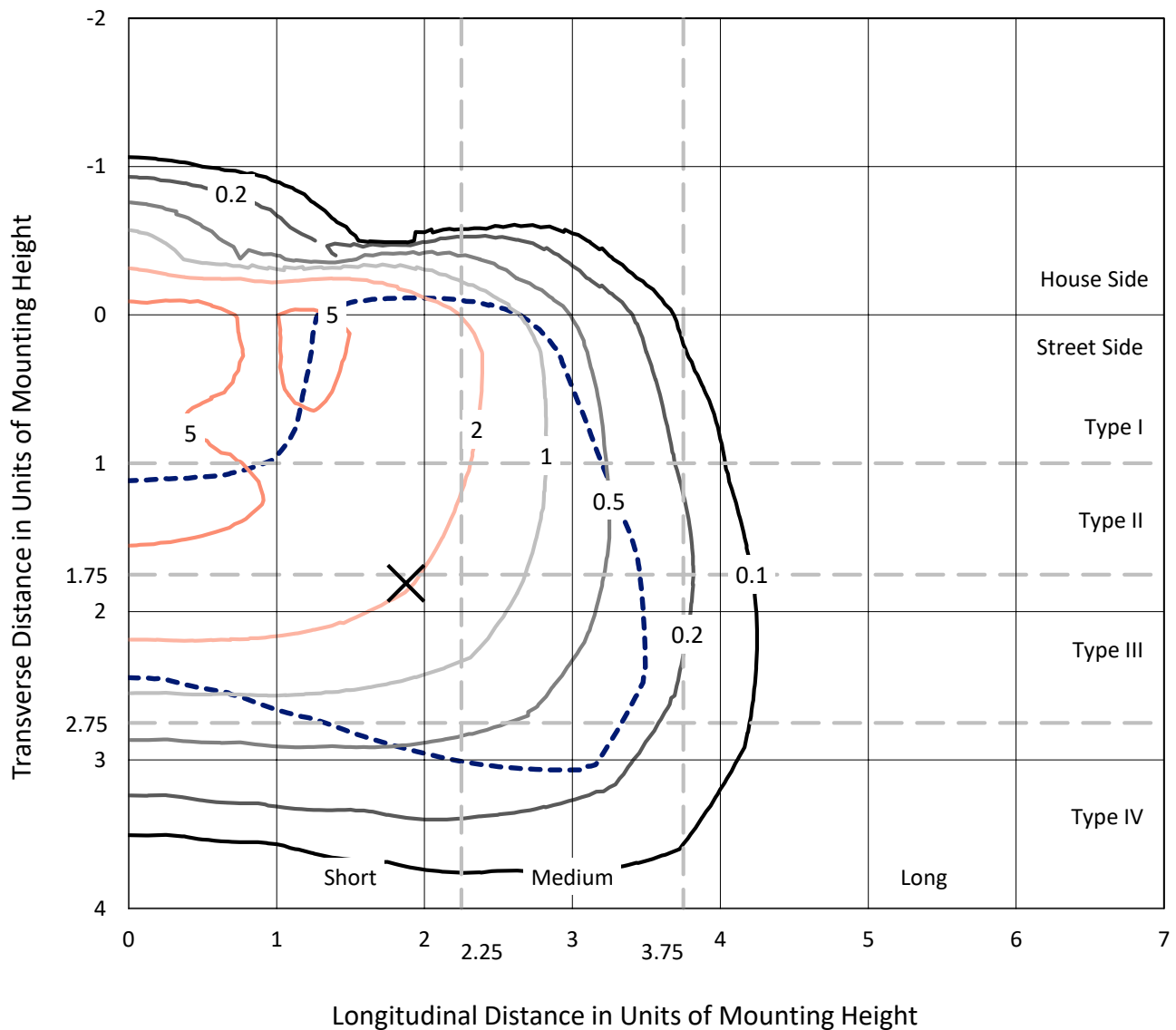
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

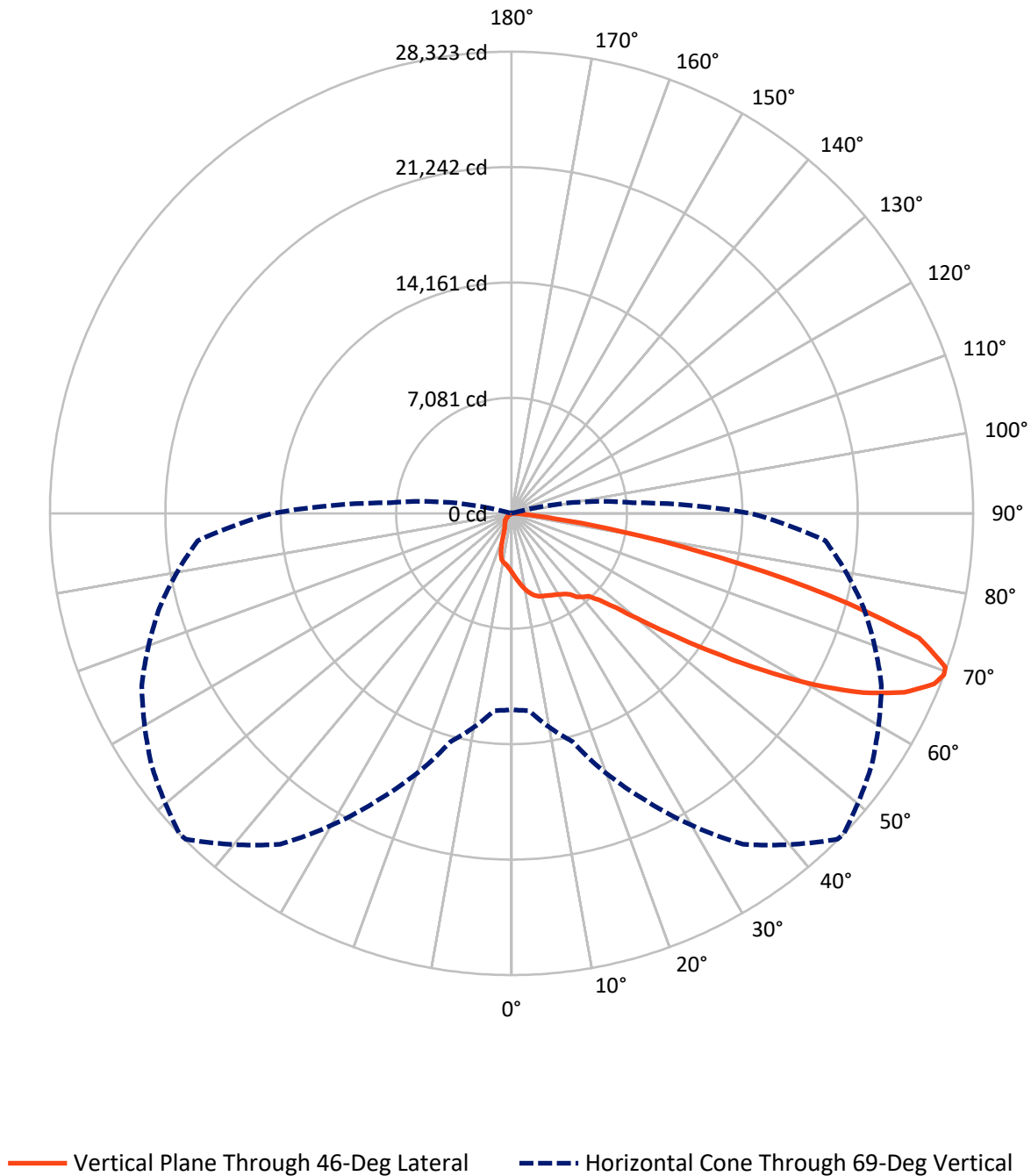
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	3721.3	0.0	3721.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	32539.7	0.0	32539.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	36261.0	0.0	36261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.6	1.0
10°-20°	1097.1	3.0
20°-30°	1725.4	4.8
30°-40°	2474.2	6.8
40°-50°	4276.3	11.8
50°-60°	8448.3	23.3
60°-70°	11807.3	32.6
70°-80°	5704.2	15.7
80°-90°	366.6	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°	36261.0	100.0
0°-180°	36261.0	100.0

Coefficient of Utilization



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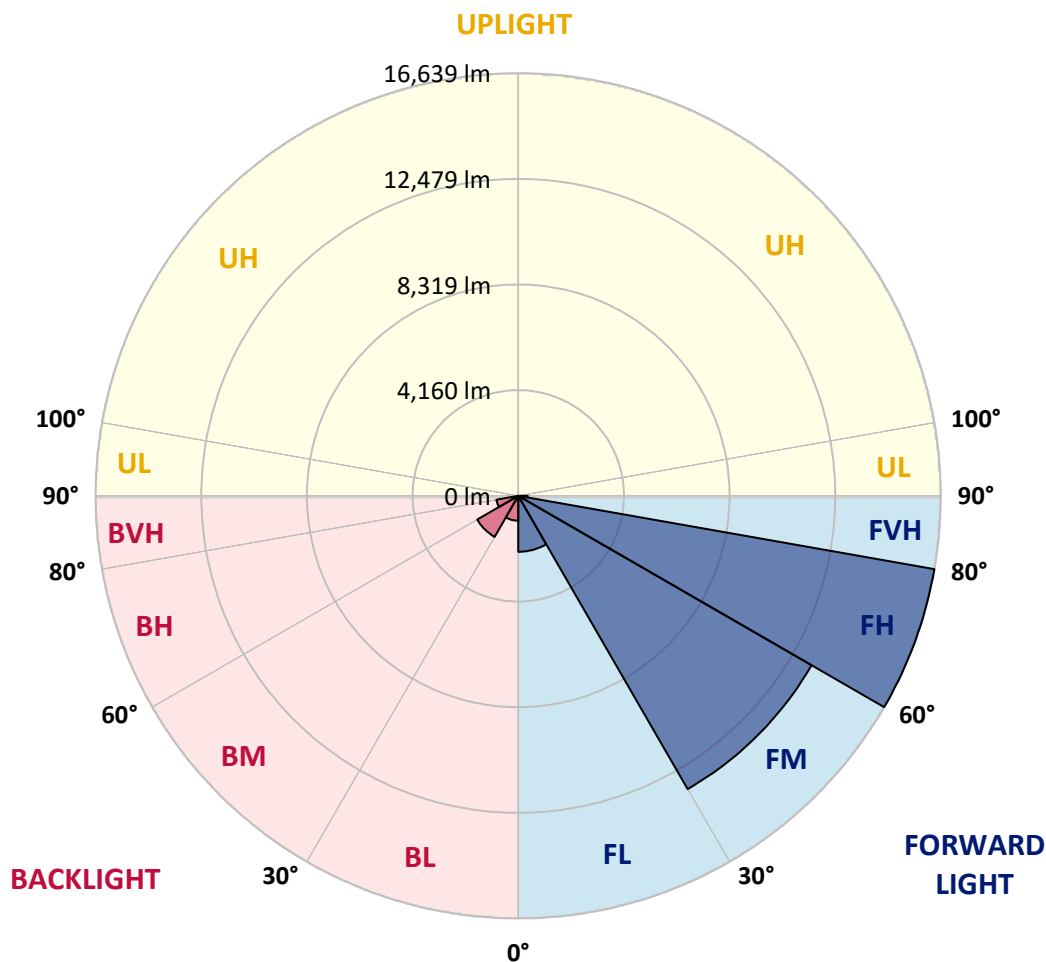
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2203.3	6.1			
FM	(30°-60°)	13334.0	36.8			
FH	(60°-80°)	16638.8	45.9			G5
FVH	(80°-90°)	363.5	1.0			G3/500
BL	(0°-30°)	980.8	2.7	B2/1000		
BM	(30°-60°)	1864.9	5.1	B2/2500		
BH	(60°-80°)	872.6	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: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2
2.5°	4036.2	4031.1	4007.2	3997.0	3939.2	3905.2	3891.6	3849.1	3787.9	3726.7	3658.7
5°	4495.2	4493.5	4449.3	4406.8	4298.0	4196.0	4177.3	4078.7	3940.9	3811.7	3682.5
7.5°	4964.4	4942.3	4898.1	4816.5	4658.4	4495.2	4479.9	4340.5	4145.0	3957.9	3772.6
10°	5362.3	5348.7	5290.9	5166.8	4981.4	4796.1	4777.4	4605.7	4384.7	4155.2	3918.8
12.5°	5671.7	5661.5	5585.0	5430.3	5233.1	5040.9	5015.4	4862.4	4626.1	4369.4	4090.6
15°	5860.4	5855.3	5761.8	5596.9	5403.1	5236.5	5214.4	5080.0	4860.7	4592.1	4277.6
17.5°	5904.6	5906.3	5809.4	5642.8	5483.0	5364.0	5347.0	5245.0	5061.3	4794.4	4464.6
20°	5806.0	5826.4	5739.7	5595.2	5496.6	5433.7	5420.1	5358.9	5204.2	4952.5	4614.2
22.5°	5666.6	5676.8	5617.3	5520.4	5479.6	5491.5	5484.7	5450.7	5319.8	5088.5	4762.1
25°	5581.6	5581.6	5545.9	5464.3	5491.5	5564.6	5566.3	5559.5	5455.8	5255.2	4942.3
27.5°	5578.2	5568.0	5527.2	5466.0	5540.8	5653.0	5659.8	5705.7	5641.1	5457.5	5166.8
30°	5714.2	5702.3	5615.6	5535.7	5630.9	5751.6	5768.6	5868.9	5836.6	5676.8	5416.7
32.5°	6032.1	5989.6	5797.5	5666.6	5738.0	5882.5	5904.6	6064.4	6115.4	5947.1	5658.1
35°	6467.4	6333.1	6055.9	5914.8	5921.6	6072.9	6093.3	6328.0	6479.3	6195.3	5845.1
37.5°	7067.5	7001.2	6550.7	6173.2	6203.8	6433.4	6492.9	6747.9	6705.4	6331.4	6057.6
40°	8383.4	8279.7	7800.3	6897.5	6474.2	6725.8	6744.5	6880.5	6883.9	6639.1	6499.7
42.5°	10175.4	10132.9	9627.9	8211.7	7006.3	6921.3	6955.3	7184.8	7441.5	7288.5	7281.7
45°	12159.5	12137.4	11601.8	9956.1	8082.5	7562.3	7604.8	7912.5	8403.8	8437.8	8653.8
47.5°	13755.9	13745.7	13438.0	11902.7	9729.9	8648.7	8662.3	8988.7	9852.4	10279.1	10624.2
50°	15211.2	15260.5	15017.4	14009.2	11974.1	10350.5	10318.2	10535.8	11923.1	12621.9	13050.3
52.5°	17234.4	17304.1	16622.3	15974.6	14328.8	12462.1	12436.6	12664.4	14412.2	14935.8	15012.3
55°	19021.3	18902.2	18363.3	18176.3	17200.4	15070.1	15063.3	15263.9	16819.6	17042.3	17183.4
57.5°	19810.1	19764.2	20024.3	20452.8	20208.0	18152.5	18137.2	17984.2	18973.7	18997.5	19431.0
60°	20308.3	20364.4	21161.7	22482.8	23093.1	21469.5	21370.9	20437.5	21030.8	20978.1	21442.3
62.5°	19934.2	20044.7	21479.7	23681.4	25252.3	24364.8	24225.4	22685.1	22788.8	22606.9	23038.7
65°	17948.5	18120.2	20471.5	23455.2	26323.4	26627.7	26486.6	24669.2	24184.6	23885.4	23645.7
67.5°	14573.7	14675.7	17130.7	21488.2	25840.6	27977.6	27948.7	26408.4	25238.7	23669.5	21809.5
69°	12043.8	12144.2	14507.4	19417.4	24778.0	28266.7	28322.8	26966.1	25038.1	22356.9	19323.9
70°	10200.9	10308.0	12509.7	17642.4	23545.4	28132.4	28232.7	26913.3	24463.4	20837.0	17142.6
72.5°	5350.4	5442.2	7701.7	12154.4	19194.7	25832.1	26136.4	24638.5	20736.7	15133.0	10136.3
75°	1681.4	1734.2	3007.6	6353.5	13142.1	20085.6	20155.3	19327.3	14725.0	8323.9	4221.5
77.5°	641.0	625.7	1001.4	2341.1	6644.2	12647.4	13074.1	12077.9	7727.2	2943.0	974.2
80°	345.1	346.8	520.2	969.1	2842.6	6499.7	6860.1	5853.6	2745.7	918.1	224.4
82.5°	149.6	156.4	292.4	513.4	1305.7	2397.2	2577.4	2145.6	1049.0	617.2	83.3
85°	32.3	35.7	141.1	278.8	532.1	673.3	705.6	695.4	668.2	479.4	32.3
87.5°	0.0	0.0	62.9	100.3	134.3	153.0	134.3	175.1	368.9	323.0	17.0
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°	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2	3633.2
2.5°	3636.6	3606.0	3553.3	3495.5	3454.7	3412.2	3378.2	3362.9	3345.9	3334.0	3349.3
5°	3629.8	3570.3	3468.3	3369.7	3298.3	3240.5	3192.9	3174.2	3155.5	3141.9	3140.2
7.5°	3689.3	3606.0	3449.6	3305.1	3194.6	3116.4	3051.8	3024.6	3002.5	2992.3	2983.8
10°	3803.2	3696.1	3487.0	3298.3	3155.5	3022.9	2883.5	2776.3	2706.6	2674.3	2662.4
12.5°	3951.1	3816.8	3558.4	3334.0	3126.6	2871.6	2575.7	2320.7	2155.8	2101.4	2069.1
15°	4124.6	3957.9	3651.9	3379.9	3021.2	2555.3	2053.8	1720.5	1567.5	1536.9	1502.9
17.5°	4291.2	4107.6	3764.1	3388.4	2789.9	2041.9	1504.6	1278.5	1219.0	1239.4	1244.5
20°	4437.4	4255.5	3874.6	3313.6	2370.0	1531.8	1164.6	1108.5	1130.6	1169.7	1176.5
22.5°	4585.3	4398.3	3976.6	3116.4	1832.8	1162.9	1049.0	1062.6	1084.7	1123.8	1130.6
25°	4765.5	4571.7	4071.9	2754.2	1375.4	989.5	996.3	1016.7	1038.8	1074.5	1077.9
27.5°	4972.9	4791.0	4134.8	2283.3	1020.1	909.6	931.7	962.3	984.4	1018.4	1025.2
30°	5248.4	5080.0	4155.2	1795.4	855.2	838.2	848.4	885.8	918.1	948.7	953.8
32.5°	5506.8	5365.7	4087.2	1355.0	792.3	771.9	771.9	794.0	831.4	860.3	867.1
35°	5744.8	5653.0	3869.5	991.2	744.7	710.7	693.7	693.7	717.5	741.3	748.1
37.5°	6059.3	6055.9	3517.6	790.6	698.8	659.7	624.0	596.8	588.3	593.4	596.8
40°	6598.3	6603.4	3058.6	709.0	659.7	607.0	552.5	503.2	457.3	442.0	440.3
42.5°	7439.8	7363.3	2577.4	669.9	625.7	552.5	470.9	404.6	333.2	311.1	309.4
45°	8776.2	8322.2	2067.4	634.2	590.0	491.3	389.3	299.2	241.4	224.4	224.4
47.5°	10722.8	9582.0	1601.5	595.1	542.3	421.6	294.1	215.9	176.8	168.3	170.0
50°	12735.8	10816.3	1227.5	545.7	484.5	348.5	217.6	156.4	134.3	134.3	136.0
52.5°	14521.0	11720.8	957.2	493.0	413.1	273.7	164.9	122.4	112.2	110.5	112.2
55°	16192.2	12304.0	732.8	431.8	328.1	204.0	125.8	100.3	93.5	90.1	88.4
57.5°	17804.0	12593.0	549.1	348.5	238.0	147.9	100.3	85.0	78.2	73.1	71.4
60°	18876.7	12358.4	377.4	256.7	164.9	107.1	83.3	73.1	64.6	59.5	57.8
62.5°	19482.0	11717.4	243.1	185.3	117.3	79.9	66.3	61.2	49.3	44.2	44.2
65°	19237.2	10659.9	170.0	132.6	85.0	59.5	49.3	49.3	35.7	28.9	27.2
67.5°	17047.4	9005.7	129.2	98.6	61.2	44.2	37.4	42.5	22.1	13.6	13.6
69°	14667.2	7463.7	110.5	81.6	51.0	35.7	32.3	39.1	15.3	10.2	8.5
70°	12747.7	6438.5	100.3	71.4	42.5	30.6	28.9	37.4	15.3	8.5	6.8
72.5°	7626.9	3590.7	76.5	51.0	27.2	23.8	23.8	42.5	15.3	8.5	6.8
75°	3082.4	1264.9	56.1	35.7	20.4	20.4	28.9	54.4	13.6	6.8	5.1
77.5°	698.8	277.1	32.3	22.1	13.6	20.4	34.0	42.5	8.5	3.4	0.0
80°	170.0	68.0	20.4	13.6	8.5	15.3	25.5	23.8	1.7	0.0	0.0
82.5°	56.1	23.8	8.5	6.8	1.7	5.1	11.9	6.8	0.0	0.0	0.0
85°	23.8	13.6	3.4	1.7	0.0	0.0	1.7	0.0	0.0	0.0	0.0
87.5°	15.3	5.1	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)