

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: P322601

Luminaire Tested: **GAN-SA7B-750-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28705 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

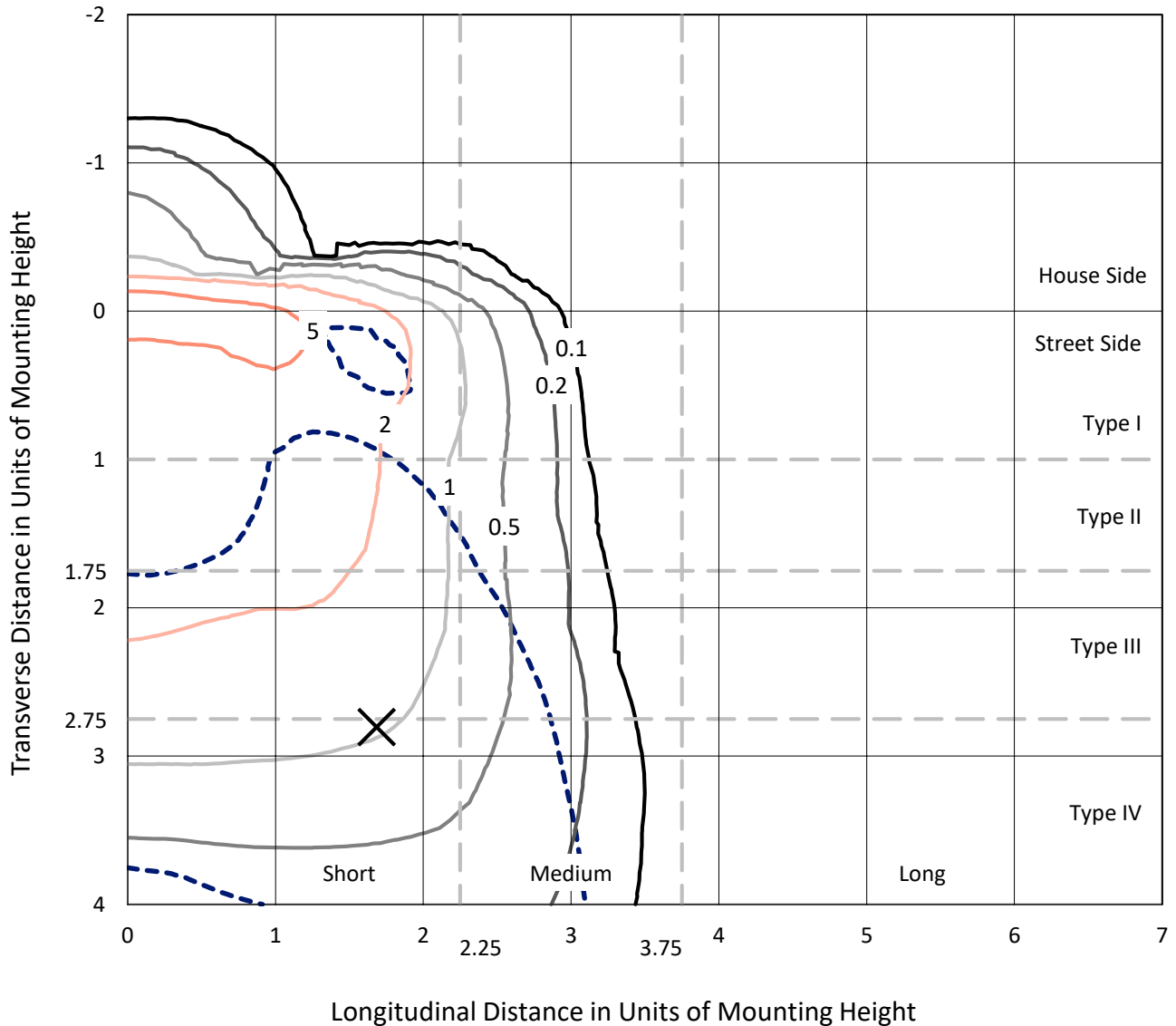
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

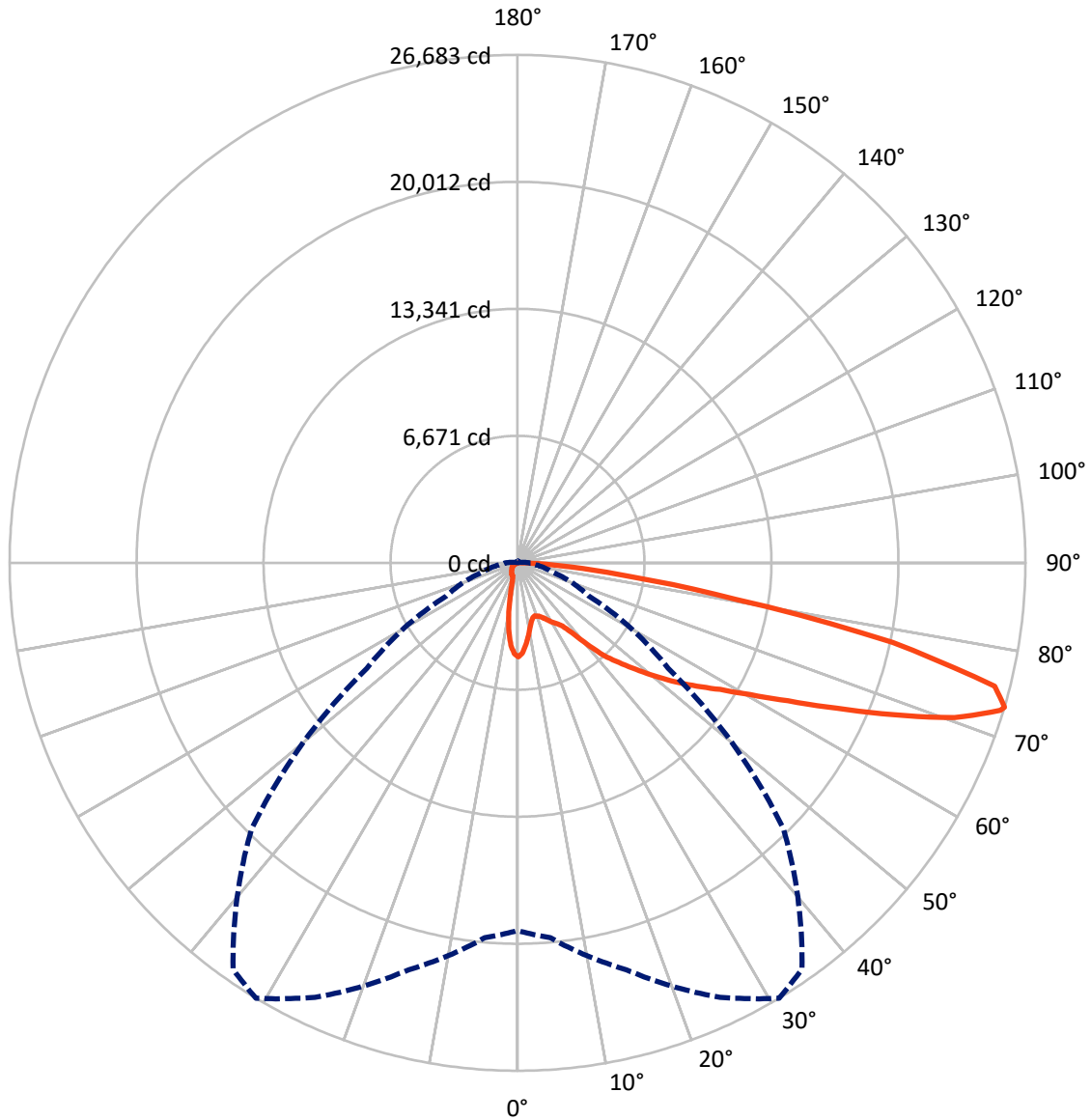
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2616.6	0.0	2616.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	26088.4	0.0	26088.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	28705.0	0.0	28705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.5	1.4
10°-20°	889.1	3.1
20°-30°	1332.2	4.6
30°-40°	2119.5	7.4
40°-50°	3784.8	13.2
50°-60°	5872.9	20.5
60°-70°	7807.3	27.2
70°-80°	5872.6	20.5
80°-90°	617.1	2.1
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°	28705.0	100.0
0°-180°	28705.0	100.0

Coefficient of Utilization



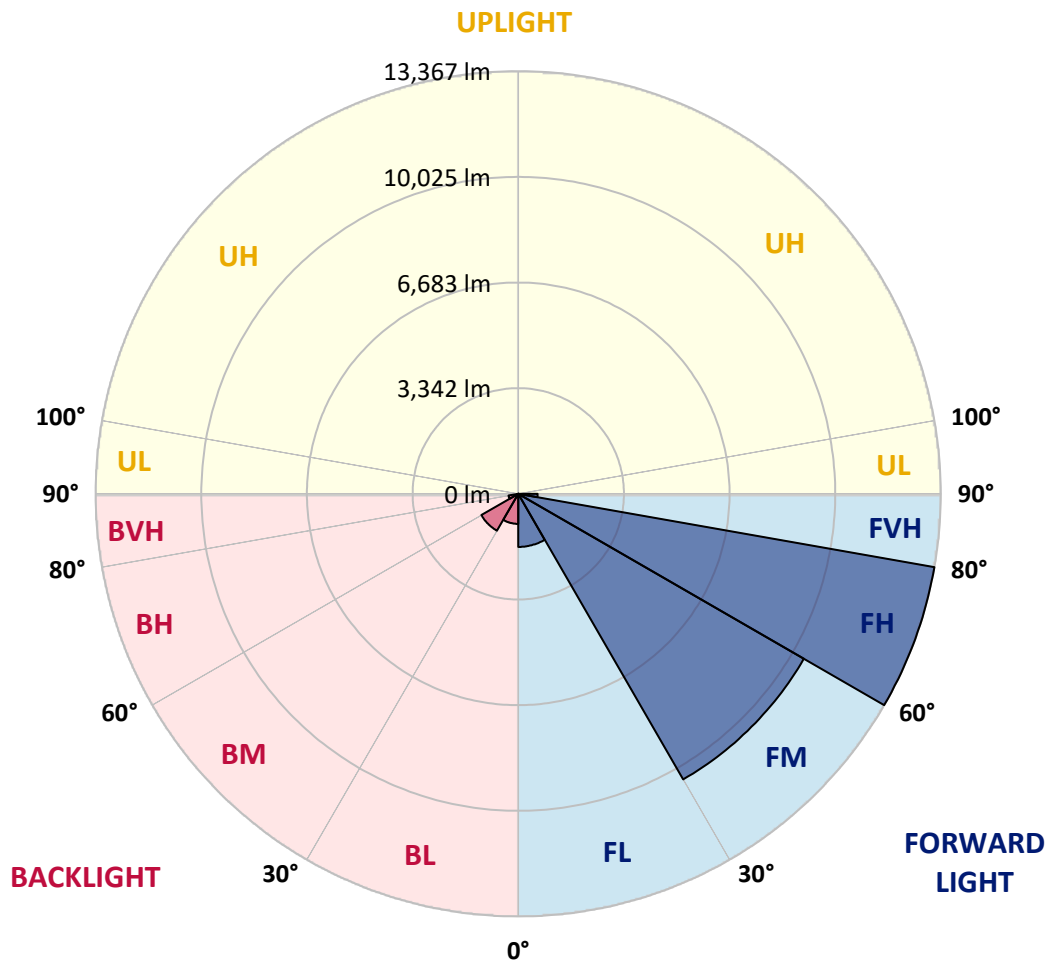
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1679.3	5.9			
FM (30°-60°)	10430.4	36.3			
FH (60°-80°)	13366.9	46.6			G5
FVH (80°-90°)	611.9	2.1			G4/750
BL (0°-30°)	951.5	3.3	B2/1000		
BM (30°-60°)	1346.8	4.7	B2/2500		
BH (60°-80°)	313.1	1.1	B1/500		G1/500
BVH (80°-90°)	5.2	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°	31°	35°	45°	55°	65°	75°	85°
0°	4938.8	4938.8	4938.8	4938.8	4938.8	4938.8	4938.8	4938.8	4938.8	4938.8	4938.8
2.5°	4680.3	4700.0	4721.0	4725.2	4760.4	4761.8	4812.3	4850.3	4888.2	4924.7	4937.3
5°	4199.9	4232.2	4270.1	4308.1	4382.5	4412.0	4535.6	4662.0	4782.8	4898.0	4954.2
7.5°	3687.2	3723.7	3777.1	3871.2	3954.1	4011.7	4206.9	4431.7	4656.4	4868.5	4990.7
10°	3219.5	3253.2	3309.4	3409.1	3536.9	3615.6	3878.2	4190.1	4520.2	4841.8	5045.5
12.5°	2921.7	2939.9	2970.8	3077.6	3192.8	3281.3	3590.3	3976.6	4407.8	4840.4	5134.0
15°	2866.9	2872.5	2847.2	2895.0	2984.9	3070.6	3383.8	3803.8	4322.1	4862.9	5249.2
17.5°	2954.0	2951.2	2866.9	2861.3	2932.9	3003.1	3282.7	3684.4	4261.7	4914.9	5398.1
20°	3086.0	3076.2	2930.1	2903.4	2979.3	3045.3	3275.6	3639.5	4239.2	5002.0	5579.3
22.5°	3261.6	3244.7	3015.8	2987.7	3069.2	3138.0	3362.7	3683.0	4258.9	5118.5	5790.0
25°	3479.3	3454.0	3163.3	3132.4	3215.2	3284.1	3518.7	3808.0	4317.9	5260.4	6056.9
27.5°	3725.1	3688.6	3399.3	3319.2	3413.3	3484.9	3726.5	3999.0	4410.6	5410.7	6384.1
30°	3956.9	3909.1	3647.9	3515.8	3631.0	3711.1	3951.3	4226.6	4559.5	5642.5	6832.2
32.5°	4190.1	4136.7	3869.8	3712.5	3816.4	3903.5	4183.1	4539.8	4839.0	5996.5	7427.8
35°	4726.7	4670.5	4343.2	4083.3	4081.9	4131.1	4507.5	4968.3	5208.4	6489.5	8138.5
37.5°	5629.8	5597.5	5285.7	4792.7	4660.6	4605.9	4950.0	5479.5	5739.4	7167.9	8940.6
40°	6618.7	6590.6	6240.9	5794.2	5593.3	5458.5	5584.9	6191.7	6489.5	7996.7	9759.5
42.5°	7735.4	7602.0	6978.3	6844.9	6665.1	6562.5	6448.8	7069.6	7410.9	8898.5	10571.4
45°	8749.6	8524.8	7715.7	7513.5	7472.7	7498.0	7561.2	8249.5	8447.6	9970.2	11380.5
47.5°	9353.6	9176.6	8555.7	8361.9	8350.7	8517.8	8995.4	9582.5	9480.0	10904.3	12092.6
50°	9928.1	9767.9	9252.4	9300.2	9352.2	9579.7	10623.4	10953.5	10422.5	11751.3	12745.8
52.5°	10393.0	10148.6	9878.9	10147.2	10402.8	10769.5	12303.3	12183.9	11091.1	12425.5	13304.9
55°	10661.3	10550.3	10681.0	10950.7	11431.1	12026.6	13889.2	13207.9	11579.9	13040.8	13677.1
57.5°	11644.6	11426.8	11686.7	11919.9	12546.3	13379.3	15247.5	13970.7	11932.5	13421.4	13762.8
60°	12834.3	12658.7	12811.8	13199.5	14045.1	15024.2	16517.3	14592.9	12116.5	13665.9	13540.8
62.5°	14727.8	14496.0	14400.5	14834.5	15955.4	17024.4	17480.9	15024.2	12075.8	13557.7	12779.5
65°	17264.6	17024.4	16597.4	16990.7	18416.4	19170.7	18558.3	15115.5	11794.9	12682.6	10855.1
67.5°	19863.2	19689.0	19323.8	19986.8	21273.4	21516.4	19697.4	14893.5	10890.3	10283.5	7669.4
70°	21579.7	21505.2	21742.6	23209.1	24356.7	24286.4	20742.5	13701.0	8488.3	6323.7	3794.0
72.5°	20342.2	20698.9	22451.9	25111.0	26512.8	25939.7	20205.9	10520.8	4851.7	2432.9	1097.0
73°	19316.8	19773.3	22133.1	25182.6	26682.8	26054.9	19755.0	9657.0	4135.3	1920.2	831.6
75°	13438.3	13998.8	18323.7	23453.5	25887.7	24824.4	16466.7	5910.8	1915.9	851.2	335.7
77.5°	6524.6	6939.0	10089.6	16945.7	20132.9	19395.4	10251.1	2202.5	865.3	532.4	154.5
80°	2435.7	2708.2	4379.7	8624.6	11634.7	11939.5	4508.9	833.0	575.9	428.4	78.7
82.5°	637.7	710.8	1615.3	3845.9	5962.7	6240.9	1421.5	420.0	421.4	352.6	47.8
85°	203.7	233.2	504.3	1726.3	2809.3	2466.6	370.8	203.7	306.2	262.7	26.7
87.5°	25.3	32.3	160.1	405.9	619.5	344.1	57.6	60.4	130.6	146.1	15.5
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°	4938.8	4938.8	4938.8	4938.8	4938.8	4938.8	4938.8	4938.8	4938.8	4938.8	4938.8
2.5°	4950.0	4943.0	4944.4	4907.9	4884.0	4836.2	4787.1	4764.6	4740.7	4730.9	4740.7
5°	4975.3	4962.6	4926.1	4813.7	4694.3	4539.8	4395.2	4285.6	4147.9	4110.0	4149.3
7.5°	5014.6	4989.3	4882.6	4653.6	4388.1	4093.2	3761.7	3520.1	3322.0	3194.2	3240.5
10°	5072.2	5024.4	4809.5	4420.4	3945.7	3423.1	2952.6	2586.0	2326.1	2219.3	2215.1
12.5°	5169.1	5079.2	4719.6	4117.0	3404.9	2708.2	2091.5	1694.0	1483.3	1347.1	1344.3
15°	5275.9	5143.8	4605.9	3753.2	2775.6	1939.8	1347.1	1045.1	908.8	865.3	859.6
17.5°	5406.5	5218.3	4458.4	3305.1	2116.8	1285.3	879.3	792.2	786.6	782.4	782.4
20°	5570.8	5306.8	4268.7	2792.4	1501.6	858.2	747.3	752.9	755.7	750.1	751.5
22.5°	5761.9	5396.7	4042.6	2241.8	1015.6	717.8	715.0	722.0	724.8	722.0	723.4
25°	5983.8	5500.6	3767.3	1664.5	733.2	681.3	688.3	698.1	705.1	705.1	705.1
27.5°	6259.1	5627.0	3435.8	1161.6	633.5	643.3	663.0	681.3	691.1	693.9	693.9
30°	6617.3	5784.4	3038.3	796.4	575.9	592.8	629.3	664.4	682.7	685.5	686.9
32.5°	7069.6	5961.3	2577.5	588.5	526.7	539.4	578.7	637.7	672.8	678.4	678.4
35°	7587.9	6166.4	2081.7	512.7	491.6	495.8	526.7	594.2	656.0	671.4	672.8
37.5°	8155.4	6368.7	1583.0	479.0	462.1	462.1	484.6	542.2	615.2	663.0	668.6
40°	8685.0	6490.9	1109.7	452.3	435.4	435.4	455.1	497.2	566.1	637.7	653.2
42.5°	9173.8	6533.0	772.6	427.0	410.2	414.4	431.2	464.9	516.9	588.5	602.6
45°	9676.6	6526.0	563.3	397.5	384.9	397.5	410.2	435.4	473.4	514.1	516.9
47.5°	10055.9	6467.0	446.7	369.4	361.0	377.9	389.1	405.9	427.0	424.2	424.2
50°	10411.3	6323.7	359.6	331.5	337.1	356.8	362.4	368.0	369.4	342.7	339.9
52.5°	10681.0	6100.4	288.0	290.8	313.2	332.9	327.3	318.9	304.8	272.5	266.9
55°	10770.9	5670.6	226.1	240.2	278.1	303.4	282.3	264.1	237.4	210.7	205.1
57.5°	10607.9	5115.7	184.0	186.8	234.6	255.6	231.8	210.7	181.2	158.7	154.5
60°	10262.4	4499.1	151.7	140.5	181.2	199.5	184.0	162.9	136.3	119.4	118.0
62.5°	9576.9	3841.7	125.0	109.6	137.7	153.1	143.3	127.8	105.3	94.1	92.7
65°	8135.7	3073.4	101.1	88.5	106.8	119.4	111.0	99.7	82.9	74.4	73.0
67.5°	5679.0	2077.5	82.9	73.0	84.3	94.1	87.1	81.5	66.0	64.6	66.0
70°	2739.1	1001.5	68.8	59.0	66.0	73.0	70.2	66.0	63.2	73.0	84.3
72.5°	785.2	335.7	54.8	49.2	53.4	57.6	60.4	59.0	68.8	88.5	102.5
73°	604.0	271.1	52.0	46.4	50.6	56.2	59.0	57.6	70.2	89.9	102.5
75°	258.5	130.6	39.3	37.9	42.1	49.2	52.0	52.0	70.2	91.3	98.3
77.5°	116.6	70.2	25.3	29.5	36.5	39.3	43.5	43.5	56.2	70.2	70.2
80°	66.0	37.9	19.7	22.5	26.7	26.7	26.7	23.9	25.3	28.1	30.9
82.5°	42.1	25.3	15.5	18.3	16.9	14.0	11.2	11.2	9.8	11.2	14.0
85°	23.9	14.0	14.0	11.2	7.0	5.6	7.0	5.6	1.4	0.0	1.4
87.5°	14.0	8.4	4.2	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)