

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: P322701

Luminaire Tested: **GAN-SA7D-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322701
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-SA7D-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA 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: 28651 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

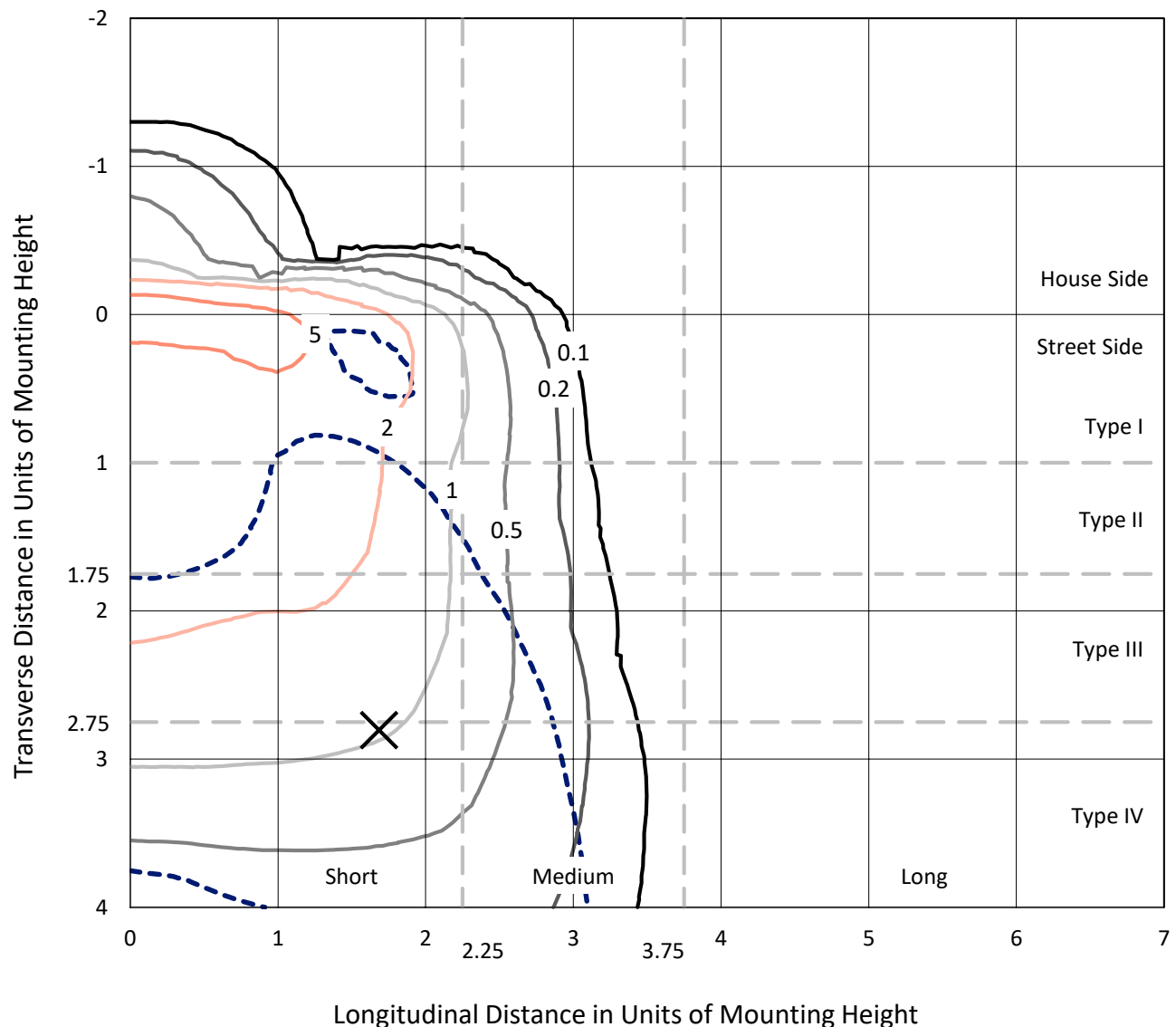
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

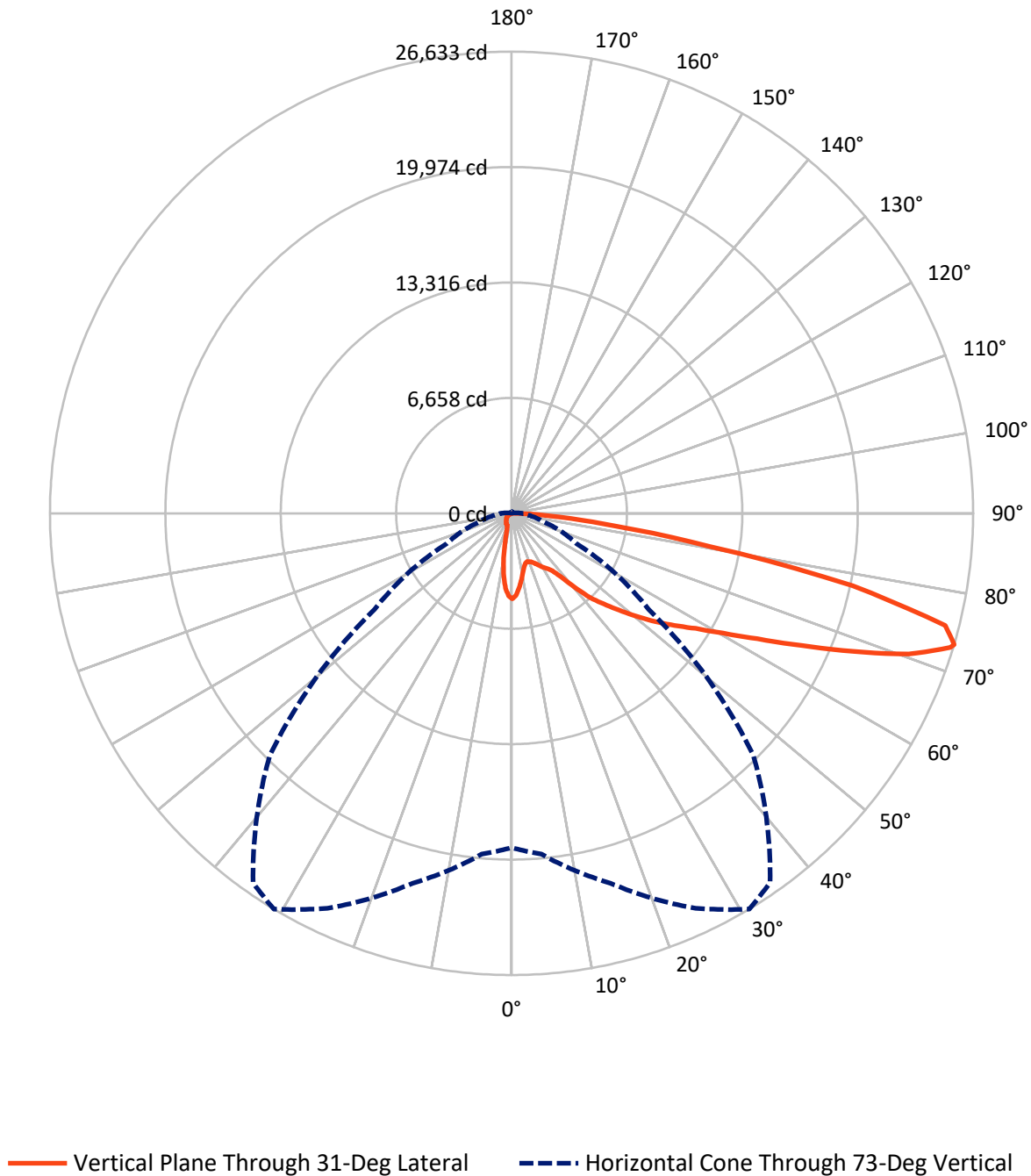
✕ Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2611.6	0.0	2611.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	26039.4	0.0	26039.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	28651.0	0.0	28651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.7	1.4
10°-20°	887.4	3.1
20°-30°	1329.7	4.6
30°-40°	2115.5	7.4
40°-50°	3777.7	13.2
50°-60°	5861.9	20.5
60°-70°	7792.6	27.2
70°-80°	5861.6	20.5
80°-90°	615.9	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°	28651.0	100.0
0°-180°	28651.0	100.0

Coefficient of Utilization



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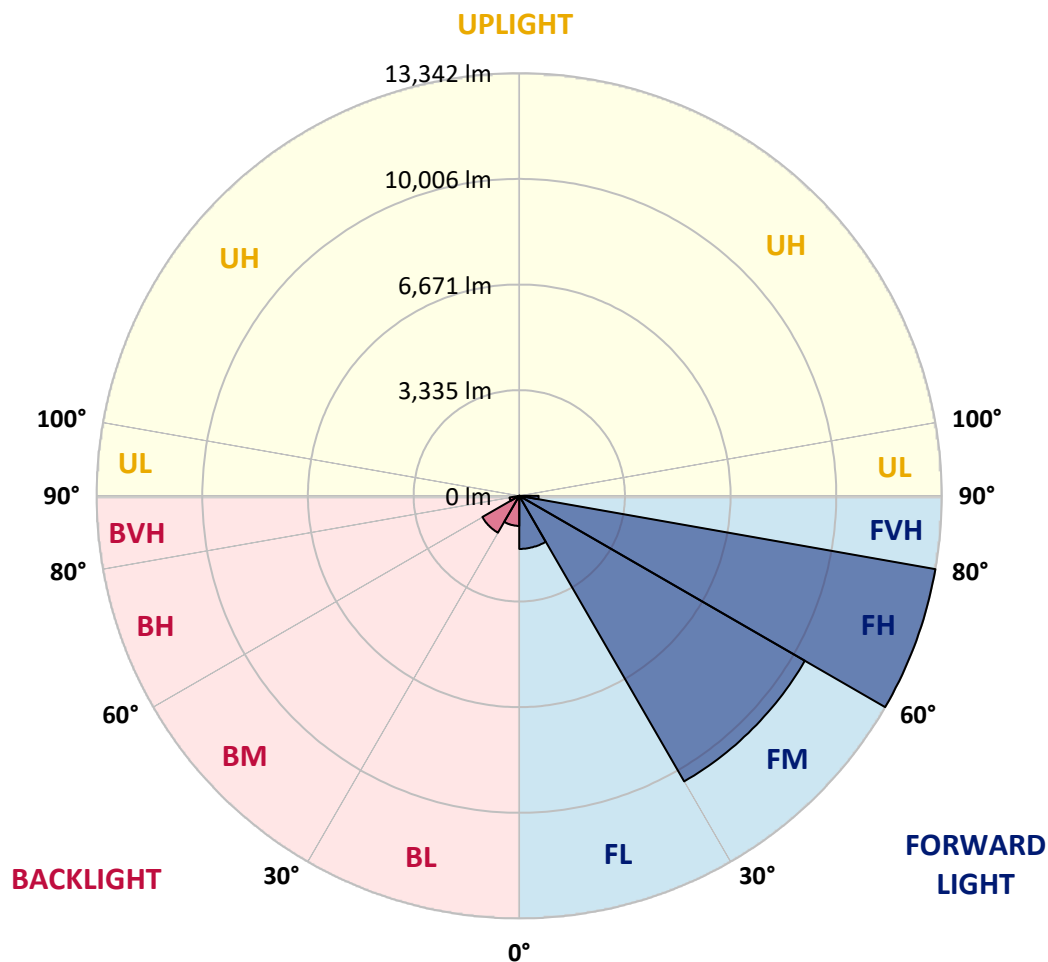
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1676.1	5.9			
FM	(30°-60°)	10410.8	36.3			
FH	(60°-80°)	13341.7	46.6			G5
FVH	(80°-90°)	610.7	2.1			G4/750
BL	(0°-30°)	949.7	3.3	B2/1000		
BM	(30°-60°)	1344.3	4.7	B2/2500		
BH	(60°-80°)	312.5	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°	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5
2.5°	4671.5	4691.1	4712.2	4716.4	4751.4	4752.8	4803.3	4841.1	4879.0	4915.4	4928.1
5°	4192.0	4224.3	4262.1	4300.0	4374.3	4403.7	4527.1	4653.3	4773.8	4888.8	4944.9
7.5°	3680.3	3716.7	3770.0	3863.9	3946.7	4004.1	4199.0	4423.3	4647.7	4859.4	4981.3
10°	3213.4	3247.1	3303.1	3402.7	3530.3	3608.8	3870.9	4182.2	4511.7	4832.7	5036.0
12.5°	2916.2	2934.4	2965.2	3071.8	3186.8	3275.1	3583.5	3969.1	4399.5	4831.3	5124.3
15°	2861.5	2867.1	2841.9	2889.5	2979.3	3064.8	3377.4	3796.6	4314.0	4853.8	5239.3
17.5°	2948.4	2945.6	2861.5	2855.9	2927.4	2997.5	3276.5	3677.5	4253.7	4905.6	5387.9
20°	3080.2	3070.4	2924.6	2898.0	2973.7	3039.6	3269.5	3632.6	4231.3	4992.6	5568.8
22.5°	3255.5	3238.6	3010.1	2982.1	3063.4	3132.1	3356.4	3676.1	4250.9	5108.9	5779.1
25°	3472.8	3447.5	3157.3	3126.5	3209.2	3277.9	3512.0	3800.8	4309.8	5250.5	6045.5
27.5°	3718.1	3681.7	3392.9	3312.9	3406.9	3478.4	3719.5	3991.5	4402.3	5400.5	6372.1
30°	3949.5	3901.8	3641.0	3509.2	3624.2	3704.1	3943.9	4218.6	4550.9	5631.9	6819.4
32.5°	4182.2	4128.9	3862.5	3705.5	3809.3	3896.2	4175.2	4531.3	4829.9	5985.2	7413.8
35°	4717.8	4661.7	4335.0	4075.6	4074.2	4123.3	4499.0	4958.9	5198.6	6477.3	8123.2
37.5°	5619.3	5587.0	5275.8	4783.7	4651.9	4597.2	4940.7	5469.2	5728.6	7154.5	8923.8
40°	6606.3	6578.2	6229.1	5783.3	5582.8	5448.2	5574.4	6180.1	6477.3	7981.6	9741.2
42.5°	7720.9	7587.7	6965.2	6832.0	6652.5	6550.2	6436.6	7056.3	7397.0	8881.7	10551.5
45°	8733.1	8508.8	7701.2	7499.3	7458.7	7483.9	7547.0	8234.0	8431.7	9951.5	11359.1
47.5°	9336.0	9159.3	8539.6	8346.2	8334.9	8501.8	8978.5	9564.5	9462.2	10883.8	12069.9
50°	9909.4	9749.6	9235.0	9282.7	9334.6	9561.7	10603.4	10932.9	10402.9	11729.2	12721.8
52.5°	10373.5	10129.5	9860.3	10128.1	10383.3	10749.2	12280.2	12161.0	11070.3	12402.2	13279.8
55°	10641.2	10530.5	10660.9	10930.1	11409.5	12004.0	13863.1	13183.1	11558.2	13016.3	13651.4
57.5°	11622.7	11405.3	11664.7	11897.4	12522.7	13354.1	15218.8	13944.4	11910.1	13396.2	13736.9
60°	12810.2	12634.9	12787.7	13174.7	14018.7	14995.9	16486.2	14565.5	12093.7	13640.1	13515.4
62.5°	14700.1	14468.7	14373.4	14806.6	15925.4	16992.3	17448.0	14995.9	12053.1	13532.2	12755.5
65°	17232.1	16992.3	16566.1	16958.7	18381.7	19134.6	18523.3	15087.0	11772.7	12658.7	10834.7
67.5°	19825.8	19652.0	19287.4	19949.2	21233.4	21476.0	19660.4	14865.5	10869.8	10264.1	7655.0
70°	21539.1	21464.8	21701.7	23165.4	24310.8	24240.7	20703.5	13675.2	8472.3	6311.8	3786.8
72.5°	20303.9	20660.0	22409.7	25063.7	26462.9	25890.9	20167.9	10501.0	4842.5	2428.3	1095.0
73°	19280.4	19736.1	22091.5	25135.2	26632.6	26005.9	19717.9	9638.8	4127.5	1916.5	830.0
75°	13413.0	13972.4	18289.2	23409.3	25839.0	24777.7	16435.8	5899.7	1912.3	849.6	335.1
77.5°	6512.3	6925.9	10070.6	16913.8	20095.0	19358.9	10231.9	2198.3	863.6	531.4	154.2
80°	2431.1	2703.1	4371.5	8608.3	11612.8	11917.1	4500.4	831.4	574.8	427.6	78.5
82.5°	636.5	709.4	1612.3	3838.7	5951.5	6229.1	1418.8	419.2	420.6	351.9	47.7
85°	203.3	232.7	503.3	1723.1	2804.0	2461.9	370.1	203.3	305.6	262.2	26.6
87.5°	25.2	32.2	159.8	405.2	618.3	343.5	57.5	60.3	130.4	145.8	15.4
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°	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5	4929.5
2.5°	4940.7	4933.7	4935.1	4898.6	4874.8	4827.1	4778.0	4755.6	4731.8	4722.0	4731.8
5°	4965.9	4953.3	4916.8	4804.7	4685.5	4531.3	4386.9	4277.5	4140.1	4102.3	4141.5
7.5°	5005.2	4979.9	4873.4	4644.9	4379.9	4085.5	3754.6	3513.4	3315.8	3188.2	3234.4
10°	5062.7	5015.0	4800.5	4412.1	3938.2	3416.7	2947.0	2581.1	2321.7	2215.2	2211.0
12.5°	5159.4	5069.7	4710.7	4109.3	3398.5	2703.1	2087.6	1690.8	1480.5	1344.5	1341.7
15°	5265.9	5134.2	4597.2	3746.2	2770.4	1936.2	1344.5	1043.1	907.1	863.6	858.0
17.5°	5396.3	5208.5	4450.0	3298.9	2112.8	1282.8	877.7	790.7	785.1	780.9	780.9
20°	5560.4	5296.8	4260.7	2787.2	1498.7	856.6	745.9	751.5	754.3	748.7	750.1
22.5°	5751.0	5386.5	4035.0	2237.6	1013.7	716.4	713.6	720.6	723.4	720.6	722.0
25°	5972.6	5490.3	3760.2	1661.4	731.8	680.0	687.0	696.8	703.8	703.8	703.8
27.5°	6247.4	5616.4	3429.3	1159.5	632.3	642.1	661.7	680.0	689.8	692.6	692.6
30°	6604.9	5773.5	3032.5	794.9	574.8	591.6	628.1	663.2	681.4	684.2	685.6
32.5°	7056.3	5950.1	2572.7	587.4	525.8	538.4	577.6	636.5	671.6	677.2	677.2
35°	7573.7	6154.8	2077.8	511.7	490.7	494.9	525.8	593.0	654.7	670.2	671.6
37.5°	8140.1	6356.7	1580.1	478.1	461.3	461.3	483.7	541.2	614.1	661.7	667.4
40°	8668.6	6478.7	1107.6	451.4	434.6	434.6	454.3	496.3	565.0	636.5	651.9
42.5°	9156.5	6520.7	771.1	426.2	409.4	413.6	430.4	464.1	515.9	587.4	601.5
45°	9658.4	6513.7	562.2	396.8	384.2	396.8	409.4	434.6	472.5	513.1	515.9
47.5°	10037.0	6454.8	445.8	368.7	360.3	377.1	388.4	405.2	426.2	423.4	423.4
50°	10391.7	6311.8	358.9	330.9	336.5	356.1	361.7	367.3	368.7	342.1	339.3
52.5°	10660.9	6088.9	287.4	290.2	312.6	332.3	326.7	318.3	304.2	272.0	266.4
55°	10750.6	5659.9	225.7	239.7	277.6	302.8	281.8	263.6	236.9	210.3	204.7
57.5°	10588.0	5106.1	183.7	186.5	234.1	255.2	231.3	210.3	180.9	158.4	154.2
60°	10243.1	4490.6	151.4	140.2	180.9	199.1	183.7	162.6	136.0	119.2	117.8
62.5°	9558.9	3834.5	124.8	109.4	137.4	152.8	143.0	127.6	105.2	93.9	92.5
65°	8120.4	3067.6	100.9	88.3	106.6	119.2	110.8	99.5	82.7	74.3	72.9
67.5°	5668.3	2073.6	82.7	72.9	84.1	93.9	86.9	81.3	65.9	64.5	65.9
70°	2733.9	999.6	68.7	58.9	65.9	72.9	70.1	65.9	63.1	72.9	84.1
72.5°	783.7	335.1	54.7	49.1	53.3	57.5	60.3	58.9	68.7	88.3	102.3
73°	602.9	270.6	51.9	46.3	50.5	56.1	58.9	57.5	70.1	89.7	102.3
75°	258.0	130.4	39.3	37.9	42.1	49.1	51.9	51.9	70.1	91.1	98.1
77.5°	116.4	70.1	25.2	29.4	36.5	39.3	43.5	43.5	56.1	70.1	70.1
80°	65.9	37.9	19.6	22.4	26.6	26.6	26.6	23.8	25.2	28.0	30.8
82.5°	42.1	25.2	15.4	18.2	16.8	14.0	11.2	11.2	9.8	11.2	14.0
85°	23.8	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)