

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: P322539

Luminaire Tested: **GAN-SA5D-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322539
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-SA5D-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 25081 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

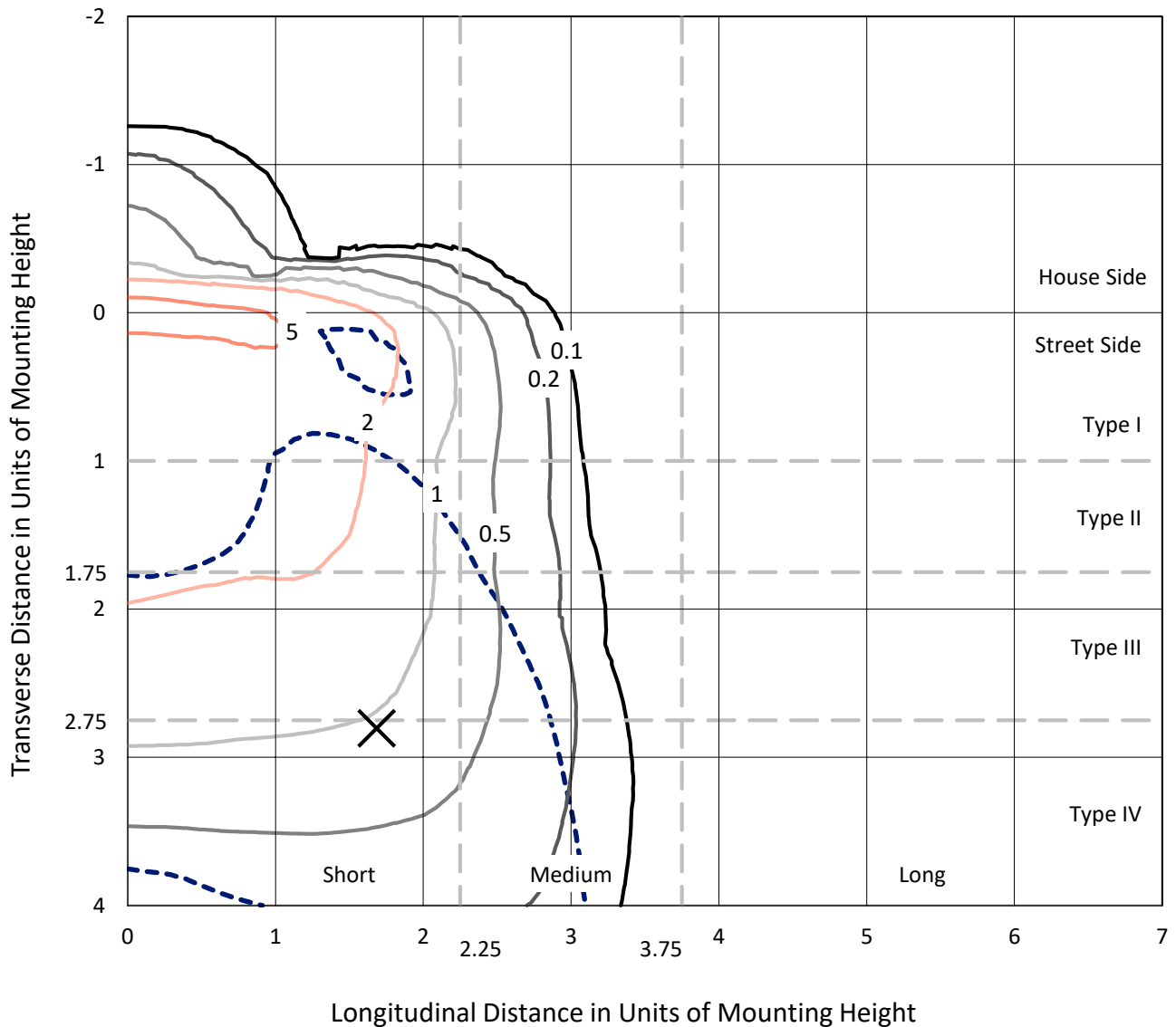
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

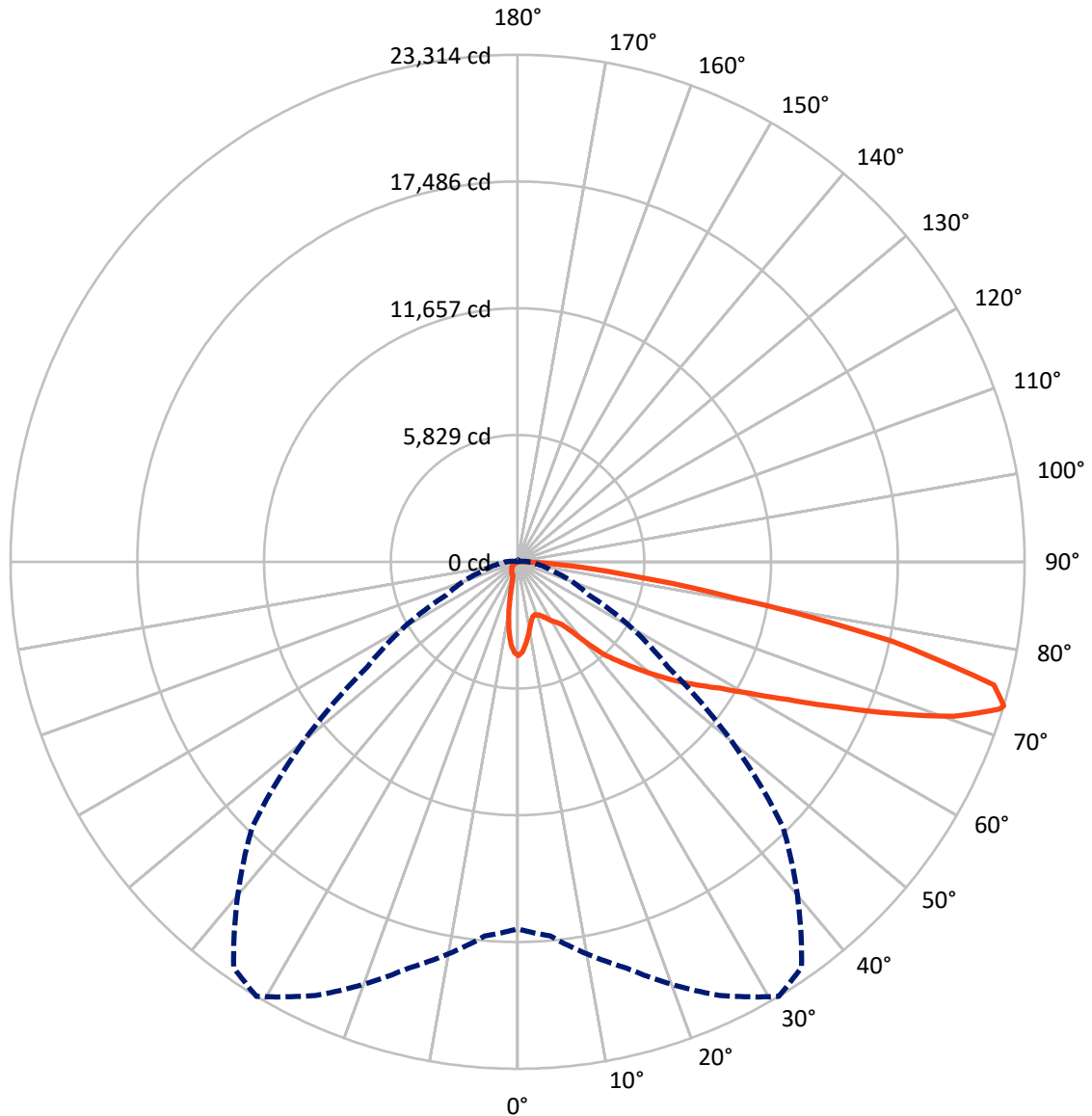
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	2286.2	0.0	2286.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	22794.8	0.0	22794.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	25081.0	0.0	25081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.8	1.4
10°-20°	776.9	3.1
20°-30°	1164.0	4.6
30°-40°	1851.9	7.4
40°-50°	3307.0	13.2
50°-60°	5131.5	20.5
60°-70°	6821.6	27.2
70°-80°	5131.2	20.5
80°-90°	539.2	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°	25081.0	100.0
0°-180°	25081.0	100.0

Coefficient of Utilization



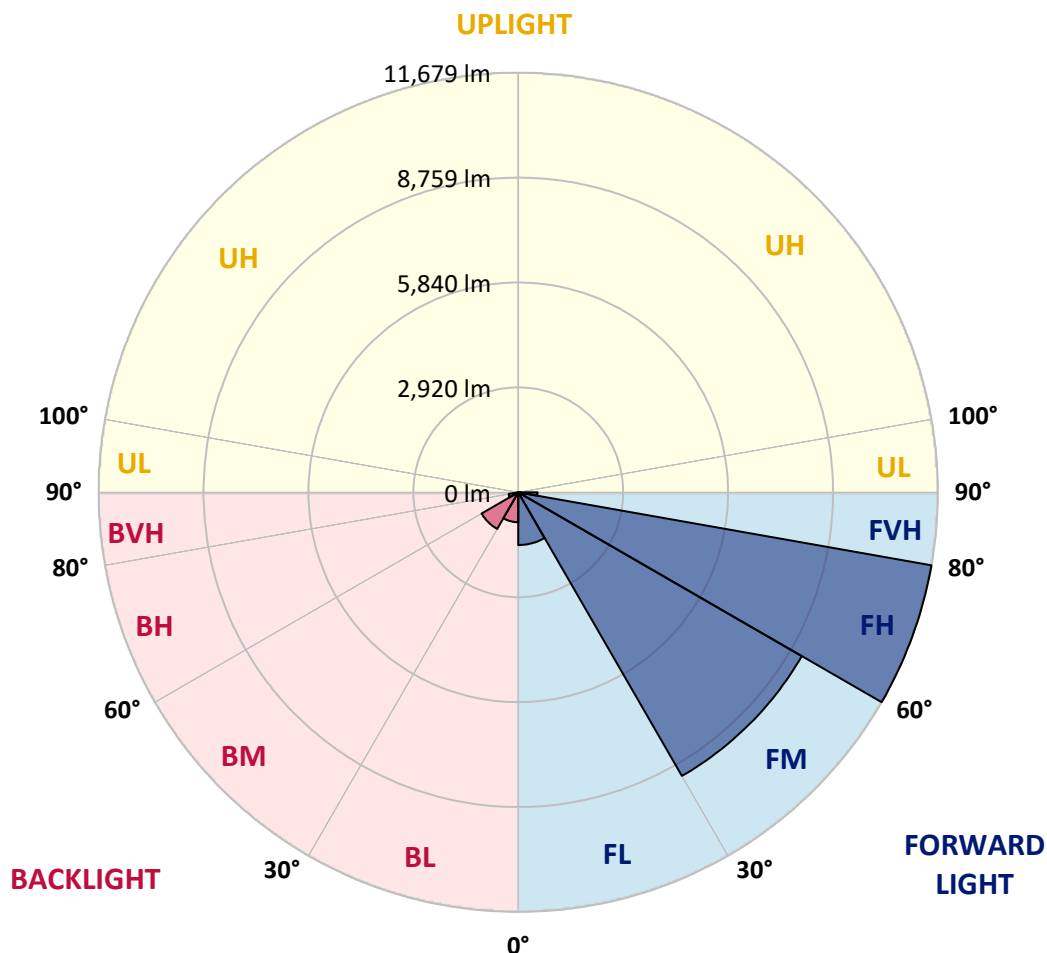
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1467.3	5.9			
FM (30°-60°)	9113.6	36.3			
FH (60°-80°)	11679.3	46.6			G4/12000
FVH (80°-90°)	534.6	2.1			G4/750
BL (0°-30°)	831.4	3.3	B2/1000		
BM (30°-60°)	1176.8	4.7	B2/2500		
BH (60°-80°)	273.5	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4315.2	4315.2	4315.2	4315.2	4315.2	4315.2	4315.2	4315.2	4315.2	4315.2	4315.2
2.5°	4089.4	4106.6	4125.0	4128.7	4159.4	4160.6	4204.8	4237.9	4271.1	4303.0	4314.0
5°	3669.7	3697.9	3731.0	3764.2	3829.2	3855.0	3963.0	4073.5	4179.0	4279.6	4328.7
7.5°	3221.7	3253.6	3300.2	3382.5	3454.9	3505.2	3675.8	3872.2	4068.5	4253.9	4360.6
10°	2813.0	2842.5	2891.6	2978.7	3090.4	3159.1	3388.6	3661.1	3949.5	4230.6	4408.5
12.5°	2552.8	2568.8	2595.8	2689.0	2789.7	2867.0	3137.0	3474.5	3851.3	4229.3	4485.8
15°	2504.9	2509.9	2487.8	2529.5	2608.0	2682.9	2956.6	3323.6	3776.4	4249.0	4586.5
17.5°	2581.0	2578.6	2504.9	2500.0	2562.6	2624.0	2868.2	3219.2	3723.7	4294.4	4716.6
20°	2696.4	2687.8	2560.2	2536.9	2603.1	2660.8	2862.1	3180.0	3704.0	4370.5	4874.9
22.5°	2849.8	2835.1	2635.0	2610.5	2681.7	2741.8	2938.2	3218.0	3721.2	4472.3	5059.0
25°	3040.1	3018.0	2763.9	2736.9	2809.3	2869.5	3074.4	3327.2	3772.8	4596.3	5292.2
27.5°	3254.8	3222.9	2970.1	2900.1	2982.4	3045.0	3256.1	3494.2	3853.8	4727.6	5578.1
30°	3457.3	3415.6	3187.3	3072.0	3172.6	3242.6	3452.4	3693.0	3983.9	4930.1	5969.7
32.5°	3661.1	3614.4	3381.3	3243.8	3334.6	3410.7	3654.9	3966.7	4228.1	5239.4	6490.0
35°	4129.9	4080.8	3794.9	3567.8	3566.6	3609.5	3938.5	4341.0	4550.9	5670.2	7111.1
37.5°	4919.1	4890.8	4618.4	4187.6	4072.2	4024.4	4325.1	4787.8	5014.8	6263.0	7811.9
40°	5783.1	5758.6	5453.0	5062.7	4887.2	4769.3	4879.8	5410.0	5670.2	6987.1	8527.4
42.5°	6758.8	6642.2	6097.3	5980.7	5823.6	5734.0	5634.6	6177.1	6475.3	7775.0	9236.8
45°	7644.9	7448.6	6741.6	6564.9	6529.3	6551.4	6606.6	7208.0	7381.1	8711.5	9943.7
47.5°	8172.7	8018.0	7475.6	7306.2	7296.4	7442.4	7859.7	8372.7	8283.1	9527.6	10565.9
50°	8674.7	8534.7	8084.3	8126.0	8171.5	8370.3	9282.2	9570.6	9106.7	10267.7	11136.7
52.5°	9080.9	8867.3	8631.7	8866.1	9089.5	9409.8	10750.0	10645.7	9690.9	10856.8	11625.1
55°	9315.3	9218.4	9332.5	9568.1	9987.9	10508.3	12135.7	11540.4	10118.0	11394.4	11950.4
57.5°	10174.4	9984.2	10211.3	10415.0	10962.4	11690.2	13322.5	12206.9	10426.0	11727.0	12025.2
60°	11214.0	11060.6	11194.3	11533.1	12271.9	13127.4	14432.0	12750.6	10586.8	11940.5	11831.3
62.5°	12868.4	12665.9	12582.4	12961.7	13941.1	14875.1	15273.9	13127.4	10551.2	11846.0	11166.1
65°	15084.9	14875.1	14501.9	14845.6	16091.3	16750.4	16215.3	13207.1	10305.8	11081.4	9484.7
67.5°	17355.5	17203.3	16884.2	17463.5	18587.7	18800.0	17210.6	13013.2	9515.4	8985.2	6701.1
70°	18855.2	18790.2	18997.6	20278.9	21281.6	21220.3	18123.8	11971.2	7416.7	5525.4	3315.0
72.5°	17774.0	18085.7	19617.4	21940.7	23165.6	22664.8	17654.9	9192.6	4239.1	2125.7	958.5
73°	16878.0	17276.9	19338.8	22003.3	23314.1	22765.5	17260.9	8437.8	3613.2	1677.7	726.6
75°	11741.7	12231.4	16010.3	20492.5	22619.4	21690.3	14387.8	5164.5	1674.1	743.8	293.3
77.5°	5700.9	6062.9	8815.8	14806.3	17591.1	16946.8	8956.9	1924.4	756.0	465.2	135.0
80°	2128.2	2366.3	3826.8	7535.7	10165.8	10432.2	3939.7	727.8	503.2	374.3	68.7
82.5°	557.2	621.0	1411.4	3360.4	5209.9	5453.0	1242.0	367.0	368.2	308.1	41.7
85°	178.0	203.7	440.6	1508.4	2454.6	2155.2	324.0	178.0	267.6	229.5	23.3
87.5°	22.1	28.2	139.9	354.7	541.2	300.7	50.3	52.8	114.1	127.6	13.5
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°	4315.2	4315.2	4315.2	4315.2	4315.2	4315.2	4315.2	4315.2	4315.2	4315.2	4315.2
2.5°	4325.1	4318.9	4320.1	4288.2	4267.4	4225.6	4182.7	4163.1	4142.2	4133.6	4142.2
5°	4347.1	4336.1	4304.2	4206.0	4101.7	3966.7	3840.3	3744.5	3624.3	3591.1	3625.5
7.5°	4381.5	4359.4	4266.1	4066.1	3834.1	3576.4	3286.7	3075.6	2902.6	2790.9	2831.4
10°	4431.8	4390.1	4202.3	3862.4	3447.5	2991.0	2579.8	2259.5	2032.4	1939.2	1935.5
12.5°	4516.5	4438.0	4123.8	3597.3	2975.0	2366.3	1827.5	1480.1	1296.0	1177.0	1174.5
15°	4609.8	4494.4	4024.4	3279.4	2425.2	1694.9	1177.0	913.1	794.1	756.0	751.1
17.5°	4723.9	4559.5	3895.5	2887.9	1849.6	1123.0	768.3	692.2	687.3	683.6	683.6
20°	4867.5	4636.8	3729.8	2439.9	1312.0	749.9	652.9	657.8	660.3	655.4	656.6
22.5°	5034.4	4715.3	3532.2	1958.8	887.3	627.2	624.7	630.8	633.3	630.8	632.1
25°	5228.4	4806.2	3291.7	1454.4	640.7	595.2	601.4	610.0	616.1	616.1	616.1
27.5°	5468.9	4916.6	3002.0	1015.0	553.5	562.1	579.3	595.2	603.8	606.3	606.3
30°	5781.9	5054.1	2654.7	695.9	503.2	517.9	549.8	580.5	596.5	598.9	600.2
32.5°	6177.1	5208.7	2252.1	514.2	460.2	471.3	505.7	557.2	587.9	592.8	592.8
35°	6630.0	5387.9	1818.9	448.0	429.6	433.2	460.2	519.2	573.2	586.7	587.9
37.5°	7125.8	5564.6	1383.2	418.5	403.8	403.8	423.4	473.7	537.6	579.3	584.2
40°	7588.5	5671.4	969.6	395.2	380.5	380.5	397.6	434.5	494.6	557.2	570.7
42.5°	8015.6	5708.2	675.0	373.1	358.4	362.1	376.8	406.2	451.7	514.2	526.5
45°	8455.0	5702.1	492.2	347.3	336.3	347.3	358.4	380.5	413.6	449.2	451.7
47.5°	8786.3	5650.6	390.3	322.8	315.4	330.1	340.0	354.7	373.1	370.6	370.6
50°	9096.9	5525.4	314.2	289.6	294.6	311.7	316.6	321.6	322.8	299.5	297.0
52.5°	9332.5	5330.2	251.6	254.1	273.7	290.9	286.0	278.6	266.3	238.1	233.2
55°	9411.0	4954.7	197.6	209.9	243.0	265.1	246.7	230.7	207.4	184.1	179.2
57.5°	9268.7	4469.9	160.8	163.2	205.0	223.4	202.5	184.1	158.3	138.7	135.0
60°	8966.8	3931.1	132.5	122.7	158.3	174.3	160.8	142.4	119.0	104.3	103.1
62.5°	8367.8	3356.7	109.2	95.7	120.3	133.8	125.2	111.7	92.0	82.2	81.0
65°	7108.6	2685.4	88.4	77.3	93.3	104.3	97.0	87.1	72.4	65.0	63.8
67.5°	4962.0	1815.2	72.4	63.8	73.6	82.2	76.1	71.2	57.7	56.5	57.7
70°	2393.3	875.1	60.1	51.5	57.7	63.8	61.4	57.7	55.2	63.8	73.6
72.5°	686.1	293.3	47.9	43.0	46.6	50.3	52.8	51.5	60.1	77.3	89.6
73°	527.7	236.9	45.4	40.5	44.2	49.1	51.5	50.3	61.4	78.5	89.6
75°	225.8	114.1	34.4	33.1	36.8	43.0	45.4	45.4	61.4	79.8	85.9
77.5°	101.9	61.4	22.1	25.8	31.9	34.4	38.0	38.0	49.1	61.4	61.4
80°	57.7	33.1	17.2	19.6	23.3	23.3	23.3	20.9	22.1	24.5	27.0
82.5°	36.8	22.1	13.5	16.0	14.7	12.3	9.8	9.8	8.6	9.8	12.3
85°	20.9	12.3	12.3	9.8	6.1	4.9	6.1	4.9	1.2	0.0	1.2
87.5°	12.3	7.4	3.7	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)