

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: P322673

Luminaire Tested: **GAN-SA9A-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322673
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-SA9A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 21749 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

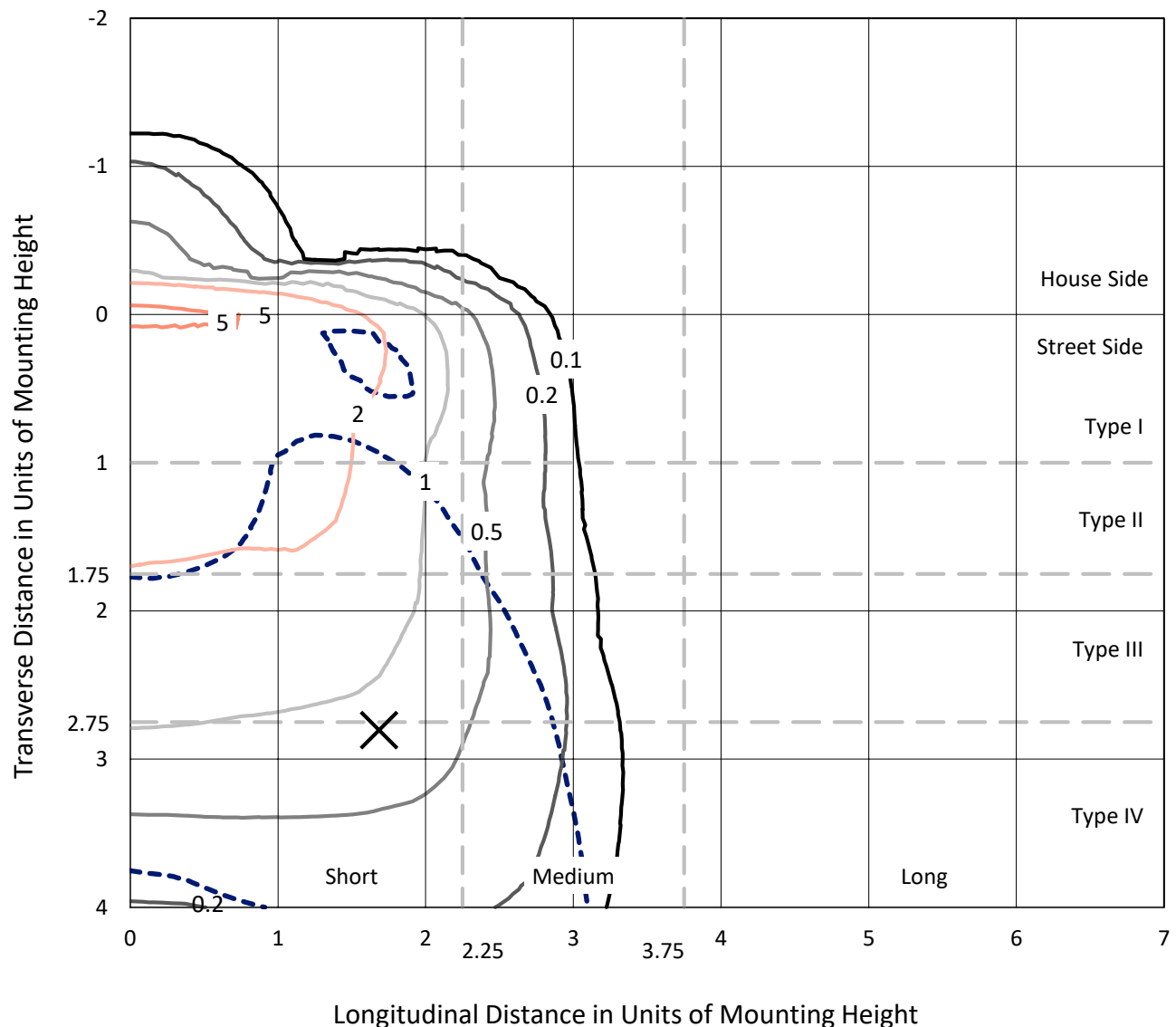
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

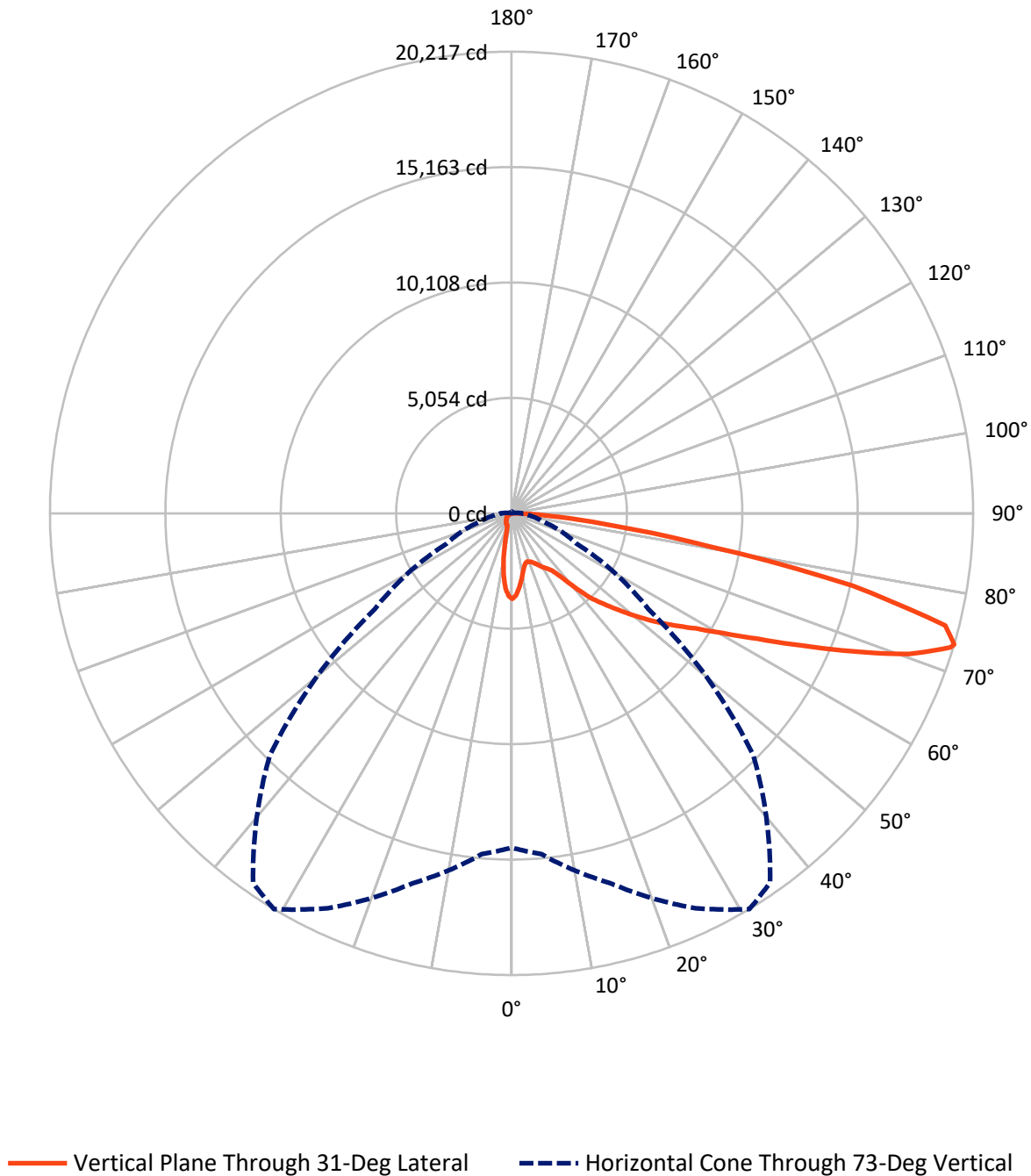
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	1982.5	0.0	1982.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	19766.5	0.0	19766.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	21749.0	0.0	21749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.3	1.4
10°-20°	673.7	3.1
20°-30°	1009.3	4.6
30°-40°	1605.9	7.4
40°-50°	2867.6	13.2
50°-60°	4449.8	20.5
60°-70°	5915.3	27.2
70°-80°	4449.5	20.5
80°-90°	467.6	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°	21749.0	100.0
0°-180°	21749.0	100.0

Coefficient of Utilization



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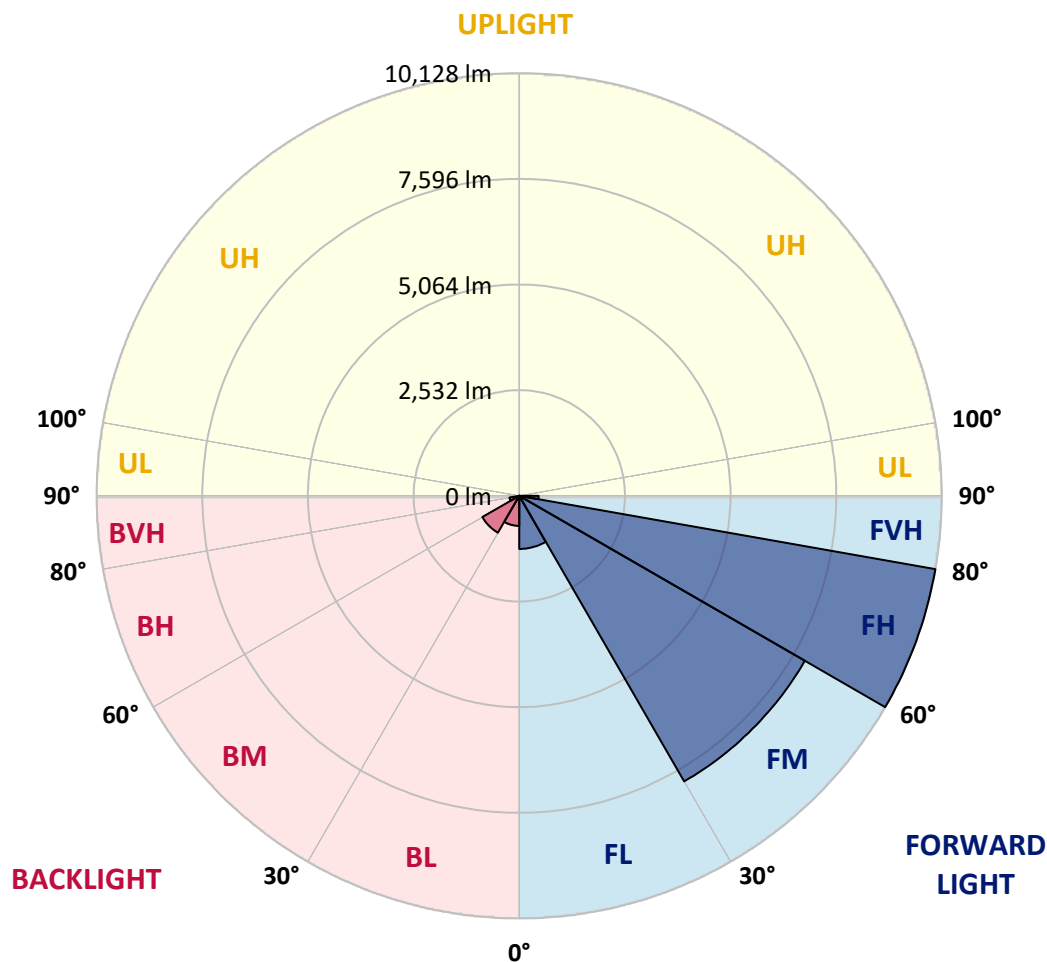
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1272.3	5.9			
FM	(30°-60°)	7902.8	36.3			
FH	(60°-80°)	10127.7	46.6			G4/12000
FVH	(80°-90°)	463.6	2.1			G3/500
BL	(0°-30°)	720.9	3.3	B2/1000		
BM	(30°-60°)	1020.4	4.7	B2/2500		
BH	(60°-80°)	237.2	1.1	B1/500		G1/500
BVH	(80°-90°)	3.9	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°	3742.0	3742.0	3742.0	3742.0	3742.0	3742.0	3742.0	3742.0	3742.0	3742.0	3742.0
2.5°	3546.1	3561.0	3577.0	3580.2	3606.8	3607.9	3646.2	3674.9	3703.6	3731.3	3740.9
5°	3182.2	3206.6	3235.4	3264.1	3320.5	3342.9	3436.5	3532.3	3623.8	3711.1	3753.7
7.5°	2793.7	2821.4	2861.8	2933.1	2995.9	3039.5	3187.5	3357.8	3528.0	3688.7	3781.3
10°	2439.3	2464.8	2507.4	2583.0	2679.8	2739.4	2938.4	3174.7	3424.8	3668.5	3822.8
12.5°	2213.7	2227.5	2250.9	2331.8	2419.1	2486.1	2720.3	3012.9	3339.7	3667.5	3889.9
15°	2172.2	2176.4	2157.3	2193.5	2261.6	2326.5	2563.8	2882.0	3274.7	3684.5	3977.2
17.5°	2238.2	2236.0	2172.2	2167.9	2222.2	2275.4	2487.2	2791.6	3229.0	3723.9	4090.0
20°	2338.2	2330.7	2220.1	2199.8	2257.3	2307.3	2481.9	2757.5	3212.0	3789.9	4227.3
22.5°	2471.2	2458.5	2285.0	2263.7	2325.4	2377.6	2547.9	2790.5	3226.9	3878.2	4386.9
25°	2636.2	2617.0	2396.7	2373.3	2436.1	2488.3	2666.0	2885.2	3271.6	3985.7	4589.1
27.5°	2822.4	2794.8	2575.5	2514.9	2586.2	2640.4	2823.5	3030.0	3341.8	4099.6	4837.1
30°	2998.0	2961.9	2763.9	2663.9	2751.1	2811.8	2993.8	3202.4	3454.6	4275.2	5176.6
32.5°	3174.7	3134.3	2932.1	2812.9	2891.6	2957.6	3169.4	3439.7	3666.4	4543.4	5627.8
35°	3581.3	3538.7	3290.7	3093.8	3092.8	3130.0	3415.2	3764.3	3946.3	4916.9	6166.4
37.5°	4265.6	4241.1	4004.8	3631.3	3531.2	3489.7	3750.5	4151.7	4348.6	5431.0	6774.1
40°	5014.8	4993.5	4728.5	4390.1	4237.9	4135.7	4231.5	4691.3	4916.9	6058.9	7394.5
42.5°	5860.9	5759.8	5287.3	5186.2	5049.9	4972.3	4886.0	5356.5	5615.1	6742.1	8009.7
45°	6629.3	6459.0	5846.0	5692.8	5661.9	5681.1	5728.9	6250.4	6400.5	7554.2	8622.7
47.5°	7086.9	6952.9	6482.4	6335.6	6327.1	6453.7	6815.6	7260.4	7182.7	8261.9	9162.3
50°	7522.2	7400.9	7010.3	7046.5	7085.9	7258.3	8049.0	8299.1	7896.9	8903.7	9657.2
52.5°	7874.5	7689.3	7485.0	7688.3	7882.0	8159.7	9321.9	9231.4	8403.4	9414.5	10080.7
55°	8077.8	7993.7	8092.7	8297.0	8661.0	9112.2	10523.5	10007.3	8773.8	9880.6	10362.8
57.5°	8822.8	8657.8	8854.7	9031.4	9506.0	10137.1	11552.6	10585.2	9040.9	10169.1	10427.7
60°	9724.2	9591.2	9707.2	10000.9	10641.6	11383.4	12514.7	11056.7	9180.4	10354.2	10259.5
62.5°	11158.8	10983.2	10910.9	11239.7	12089.0	12898.9	13244.8	11383.4	9149.5	10272.3	9682.7
65°	13080.9	12898.9	12575.4	12873.4	13953.6	14525.1	14061.1	11452.6	8936.6	9609.3	8224.6
67.5°	15049.8	14917.8	14641.1	15143.4	16118.3	16302.4	14924.2	11284.4	8251.3	7791.5	5810.9
70°	16350.3	16293.9	16473.8	17584.9	18454.4	18401.2	15716.0	10380.9	6431.4	4791.3	2874.6
72.5°	15412.7	15683.0	17011.2	19025.9	20088.0	19653.8	15309.5	7971.4	3676.0	1843.3	831.2
73°	14635.8	14981.7	16769.6	19080.2	20216.8	19741.1	14967.8	7316.8	3133.2	1454.9	630.0
75°	10181.8	10606.5	13883.4	17770.1	19614.4	18808.8	12476.4	4478.4	1451.7	644.9	254.4
77.5°	4943.5	5257.5	7644.6	12839.3	15254.1	14695.4	7767.0	1668.8	655.6	403.4	117.1
80°	1845.4	2051.9	3318.4	6534.6	8815.3	9046.3	3416.3	631.1	436.3	324.6	59.6
82.5°	483.2	538.5	1223.9	2914.0	4517.8	4728.5	1077.0	318.2	319.3	267.1	36.2
85°	154.3	176.7	382.1	1308.0	2128.5	1868.9	281.0	154.3	232.0	199.0	20.2
87.5°	19.2	24.5	121.3	307.6	469.3	260.7	43.6	45.8	99.0	110.7	11.7
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°	3742.0	3742.0	3742.0	3742.0	3742.0	3742.0	3742.0	3742.0	3742.0	3742.0	3742.0
2.5°	3750.5	3745.2	3746.2	3718.5	3700.5	3664.3	3627.0	3610.0	3591.9	3584.4	3591.9
5°	3769.6	3760.1	3732.4	3647.2	3556.8	3439.7	3330.1	3247.1	3142.8	3114.0	3143.8
7.5°	3799.4	3780.3	3699.4	3525.9	3324.8	3101.3	2850.1	2667.1	2517.0	2420.1	2455.3
10°	3843.1	3806.9	3644.0	3349.2	2989.5	2593.6	2237.1	1959.3	1762.4	1681.5	1678.3
12.5°	3916.5	3848.4	3575.9	3119.4	2579.8	2051.9	1584.7	1283.5	1123.9	1020.6	1018.5
15°	3997.4	3897.3	3489.7	2843.7	2103.0	1469.8	1020.6	791.8	688.6	655.6	651.3
17.5°	4096.4	3953.7	3378.0	2504.2	1603.8	973.8	666.2	600.2	596.0	592.8	592.8
20°	4220.9	4020.8	3234.3	2115.8	1137.7	650.3	566.2	570.4	572.6	568.3	569.4
22.5°	4365.6	4088.9	3063.0	1698.6	769.5	543.8	541.7	547.0	549.2	547.0	548.1
25°	4533.8	4167.7	2854.4	1261.2	555.5	516.2	521.5	528.9	534.3	534.3	534.3
27.5°	4742.4	4263.5	2603.2	880.1	480.0	487.4	502.3	516.2	523.6	525.7	525.7
30°	5013.8	4382.6	2302.0	603.4	436.3	449.1	476.8	503.4	517.2	519.4	520.4
32.5°	5356.5	4516.7	1952.9	445.9	399.1	408.7	438.5	483.2	509.8	514.0	514.0
35°	5749.2	4672.1	1577.2	388.5	372.5	375.7	399.1	450.2	497.0	508.7	509.8
37.5°	6179.1	4825.4	1199.4	362.9	350.1	350.1	367.2	410.8	466.1	502.3	506.6
40°	6580.4	4918.0	840.8	342.7	329.9	329.9	344.8	376.8	428.9	483.2	494.9
42.5°	6950.7	4949.9	585.3	323.5	310.8	314.0	326.7	352.3	391.6	445.9	456.6
45°	7331.7	4944.6	426.8	301.2	291.6	301.2	310.8	329.9	358.7	389.5	391.6
47.5°	7619.1	4899.9	338.4	279.9	273.5	286.3	294.8	307.6	323.5	321.4	321.4
50°	7888.3	4791.3	272.5	251.2	255.4	270.3	274.6	278.8	279.9	259.7	257.6
52.5°	8092.7	4622.1	218.2	220.3	237.3	252.2	248.0	241.6	230.9	206.5	202.2
55°	8160.8	4296.4	171.3	182.0	210.7	229.9	213.9	200.1	179.9	159.6	155.4
57.5°	8037.3	3876.1	139.4	141.5	177.7	193.7	175.6	159.6	137.3	120.3	117.1
60°	7775.5	3408.8	114.9	106.4	137.3	151.1	139.4	123.5	103.2	90.5	89.4
62.5°	7256.2	2910.8	94.7	83.0	104.3	116.0	108.6	96.8	79.8	71.3	70.2
65°	6164.2	2328.6	76.6	67.0	80.9	90.5	84.1	75.6	62.8	56.4	55.3
67.5°	4302.8	1574.0	62.8	55.3	63.9	71.3	66.0	61.7	50.0	49.0	50.0
70°	2075.3	758.8	52.1	44.7	50.0	55.3	53.2	50.0	47.9	55.3	63.9
72.5°	594.9	254.4	41.5	37.2	40.4	43.6	45.8	44.7	52.1	67.0	77.7
73°	457.6	205.4	39.4	35.1	38.3	42.6	44.7	43.6	53.2	68.1	77.7
75°	195.8	99.0	29.8	28.7	31.9	37.2	39.4	39.4	53.2	69.2	74.5
77.5°	88.3	53.2	19.2	22.3	27.7	29.8	33.0	33.0	42.6	53.2	53.2
80°	50.0	28.7	14.9	17.0	20.2	20.2	20.2	18.1	19.2	21.3	23.4
82.5°	31.9	19.2	11.7	13.8	12.8	10.6	8.5	8.5	7.4	8.5	10.6
85°	18.1	10.6	10.6	8.5	5.3	4.3	5.3	4.3	1.1	0.0	1.1
87.5°	10.6	6.4	3.2	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)