

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: P320077

Luminaire Tested: **GAN-SA3B-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16577 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 124
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

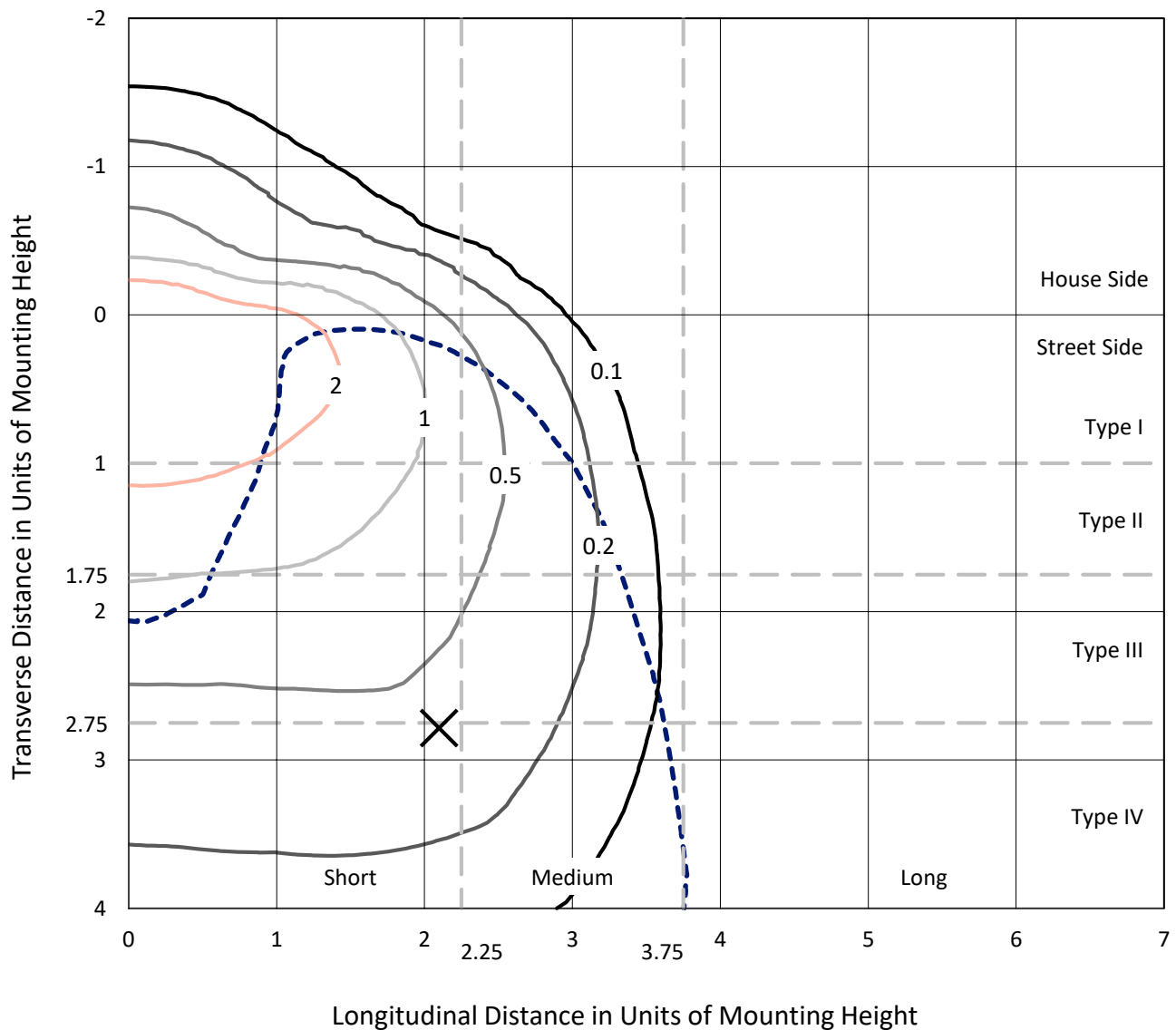


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Iso-Footcandle Lines of Horizontal Illumination

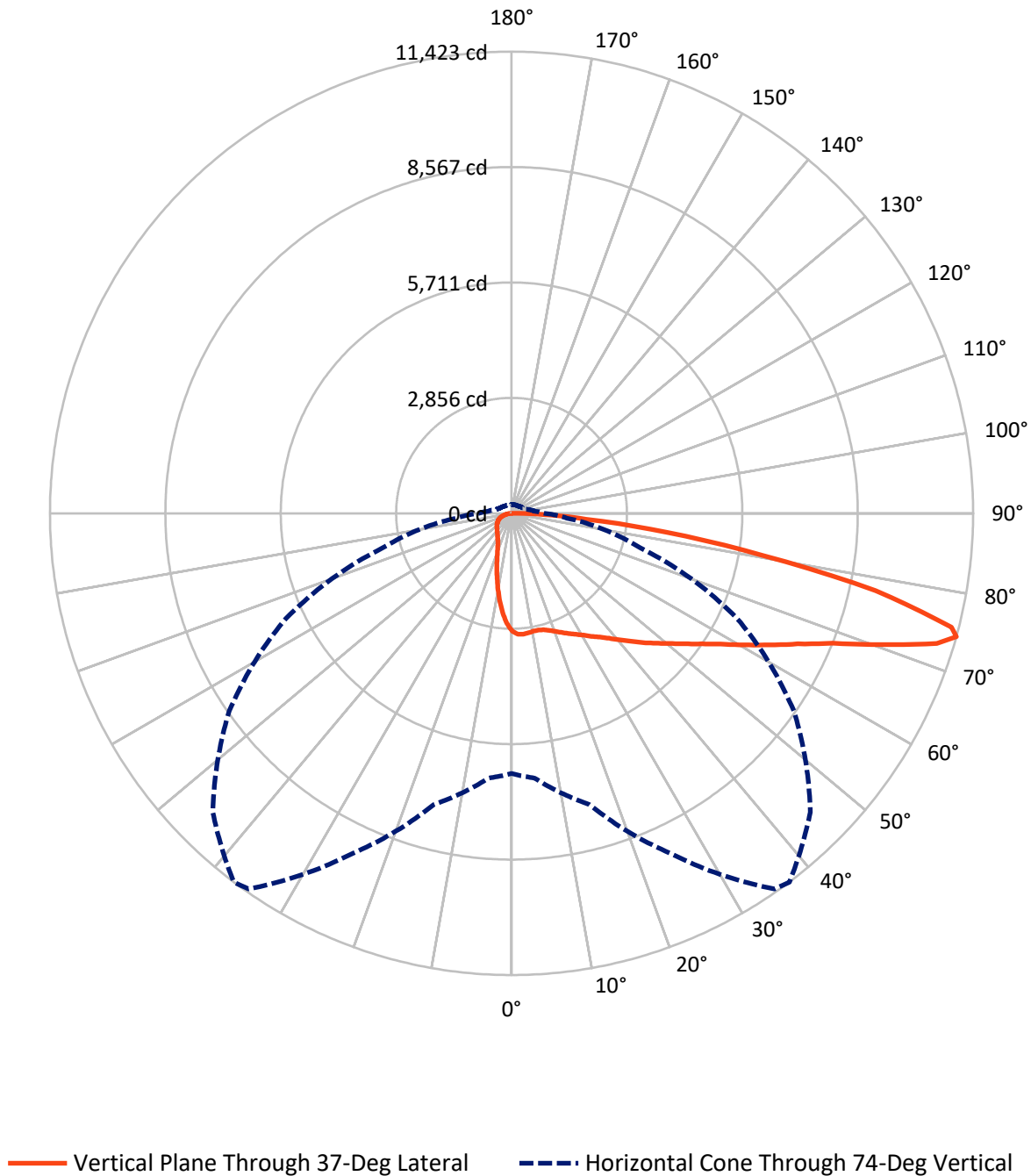
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2280.9	0.0	2280.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	14296.1	0.0	14296.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	16577.0	0.0	16577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	1.6
10°-20°	659.3	4.0
20°-30°	1015.8	6.1
30°-40°	1477.2	8.9
40°-50°	2174.2	13.1
50°-60°	3053.2	18.4
60°-70°	3864.4	23.3
70°-80°	3402.8	20.5
80°-90°	672.8	4.1
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°	16577.0	100.0
0°-180°	16577.0	100.0

Coefficient of Utilization



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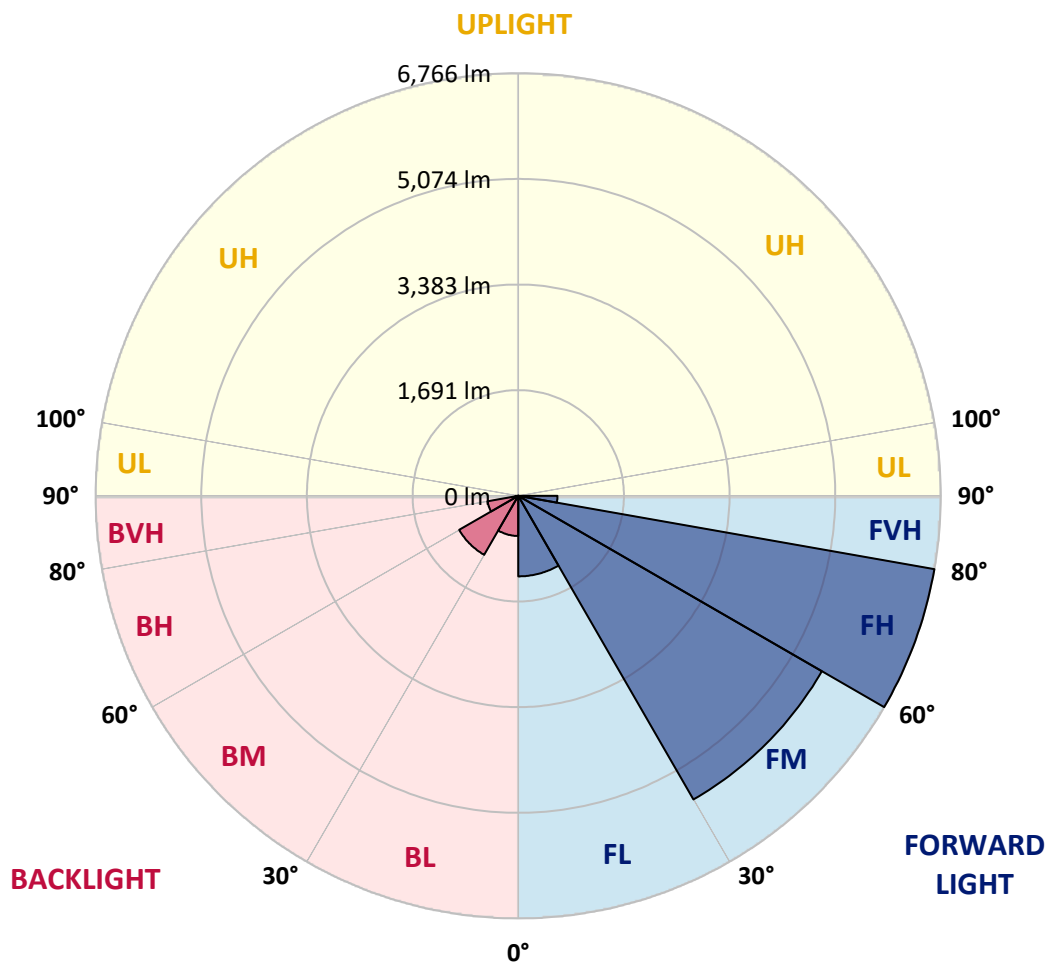
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1289.9	7.8			
FM	(30°-60°)	5613.1	33.9			
FH	(60°-80°)	6765.9	40.8			G3/7500
FVH	(80°-90°)	627.2	3.8			G4/750
BL	(0°-30°)	642.5	3.9	B2/1000		
BM	(30°-60°)	1091.5	6.6	B2/2500		
BH	(60°-80°)	501.4	3.0	B2/1000		G2/1000
BVH	(80°-90°)	45.6	0.3			G1/100
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°	35°	37°	45°	55°	65°	75°	85°
0°	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8
2.5°	3020.7	3021.2	3020.7	3016.0	3004.9	2995.5	2988.0	2976.9	2952.3	2933.6	2905.6
5°	3049.3	3045.8	3043.4	3034.7	3017.2	3006.6	2992.0	2971.0	2930.7	2893.4	2847.8
7.5°	3035.8	3031.7	3026.5	3016.0	2996.1	2987.4	2966.9	2939.5	2891.0	2842.0	2776.6
10°	2994.4	2993.2	2990.9	2988.5	2971.6	2964.6	2945.9	2916.7	2868.8	2809.3	2732.8
12.5°	2948.2	2951.2	2960.5	2972.8	2965.2	2961.7	2950.0	2930.1	2881.1	2816.9	2724.6
15°	2919.1	2927.2	2952.3	2984.5	2990.9	2989.7	2986.8	2973.9	2922.0	2850.7	2743.3
17.5°	2909.1	2922.6	2970.4	3023.6	3042.3	3046.3	3047.5	3025.3	2967.5	2892.2	2762.6
20°	2927.2	2944.2	3014.2	3087.2	3117.0	3119.3	3114.1	3075.5	3010.7	2927.8	2773.1
22.5°	2982.1	2997.3	3084.9	3167.2	3201.1	3204.6	3188.8	3130.4	3056.3	2969.9	2787.7
25°	3087.8	3106.5	3194.1	3276.4	3293.9	3294.5	3271.7	3199.3	3115.8	3028.8	2819.2
27.5°	3225.6	3244.3	3323.1	3403.7	3394.4	3389.1	3358.2	3285.8	3193.5	3110.0	2875.3
30°	3379.2	3399.6	3474.4	3531.6	3509.4	3498.9	3473.8	3380.4	3301.5	3220.9	2961.1
32.5°	3538.0	3556.7	3622.1	3661.2	3633.2	3628.5	3590.6	3505.3	3442.3	3390.3	3100.1
35°	3700.9	3714.4	3778.6	3800.8	3763.4	3762.2	3751.7	3673.5	3633.8	3658.3	3302.1
37.5°	3867.3	3870.9	3925.7	3926.9	3915.8	3920.5	3931.6	3882.5	3893.6	3970.1	3564.9
40°	4015.7	4025.0	4064.7	4077.0	4096.2	4112.6	4168.1	4136.0	4221.8	4357.3	3891.9
42.5°	4125.4	4143.5	4207.2	4238.7	4301.2	4326.9	4405.1	4434.9	4607.8	4811.0	4280.8
45°	4218.3	4246.3	4348.5	4413.3	4519.0	4564.0	4676.1	4775.9	5044.0	5303.2	4690.1
47.5°	4318.7	4354.3	4482.2	4606.0	4749.7	4800.5	5004.3	5153.7	5509.4	5798.4	5076.1
50°	4466.5	4493.9	4618.9	4813.3	4992.6	5058.0	5340.0	5554.3	5982.3	6270.2	5410.7
52.5°	4672.6	4662.1	4767.8	5040.5	5281.0	5361.6	5698.5	5980.6	6461.7	6697.1	5693.3
55°	4879.9	4862.4	4936.5	5278.1	5617.4	5702.0	6093.3	6408.6	6917.8	7081.3	5909.9
57.5°	5110.5	5077.2	5139.7	5546.1	6000.4	6101.5	6535.3	6863.5	7366.2	7391.9	6047.7
60°	5348.2	5303.2	5373.3	5878.4	6486.8	6606.0	7052.7	7307.3	7789.0	7640.7	6092.1
62.5°	5556.1	5524.5	5632.6	6249.2	7035.2	7166.0	7560.7	7779.1	8205.9	7744.0	5932.1
65°	5737.7	5742.9	5929.8	6666.1	7646.5	7786.1	8143.4	8360.7	8534.1	7682.7	5557.8
67.5°	5954.3	5984.1	6302.9	7215.0	8416.1	8569.1	8991.3	8994.8	8717.4	7323.0	4820.9
70°	6270.2	6331.5	6816.2	7976.4	9510.4	9720.6	10046.5	9367.4	8459.9	6347.9	3793.2
72.5°	6550.5	6664.9	7362.2	8847.7	10844.1	11003.5	10663.7	9152.5	7383.8	4757.3	2363.2
74°	6436.6	6578.5	7461.4	9276.8	11346.3	11422.8	10455.2	8525.3	6156.3	3294.5	1373.4
75°	6191.4	6345.5	7316.6	9272.8	11282.6	11240.0	9951.9	7808.9	5070.2	2247.0	913.8
77.5°	4996.7	5159.6	6165.1	7947.2	9251.2	9210.9	7644.8	5238.4	2220.7	736.9	464.2
80°	2905.0	3029.4	3827.1	5046.9	6238.1	6311.1	5027.6	2592.1	873.6	414.0	314.7
82.5°	1290.5	1376.3	1848.7	2576.3	3764.6	3858.6	2632.9	1358.2	539.5	251.7	189.2
85°	846.7	910.3	1122.3	1226.8	1792.7	1856.9	1288.7	1057.5	356.2	138.4	139.0
87.5°	609.0	670.3	833.8	728.2	822.8	779.0	701.3	978.7	143.1	78.8	46.7
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°	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8
2.5°	2893.4	2884.0	2863.0	2823.3	2801.1	2782.4	2751.5	2733.4	2725.2	2724.6	2728.1
5°	2821.5	2799.9	2745.6	2679.1	2625.9	2577.5	2517.3	2481.1	2455.4	2440.2	2444.3
7.5°	2738.0	2704.2	2618.9	2512.6	2427.4	2333.4	2240.5	2185.1	2141.8	2109.7	2115.6
10°	2680.8	2634.1	2509.7	2356.7	2214.8	2078.2	1950.3	1873.8	1813.1	1766.4	1769.9
12.5°	2661.5	2598.5	2426.2	2221.8	2022.7	1835.9	1668.9	1551.5	1489.0	1435.9	1440.0
15°	2664.5	2579.8	2356.1	2100.4	1849.9	1614.6	1411.9	1274.7	1190.0	1153.3	1153.8
17.5°	2666.8	2558.2	2282.6	1970.2	1678.8	1407.8	1187.7	1048.7	968.7	934.9	935.5
20°	2659.2	2523.1	2191.5	1820.7	1500.1	1218.1	1004.9	887.0	826.3	800.0	800.0
22.5°	2649.3	2481.7	2088.7	1670.6	1323.8	1053.4	874.1	784.2	749.2	731.7	731.1
25°	2653.9	2450.7	1983.6	1516.5	1161.4	922.0	787.1	727.6	704.2	693.1	692.5
27.5°	2679.1	2436.1	1886.7	1362.9	1019.5	823.3	728.7	686.7	671.5	664.5	664.5
30°	2724.6	2436.1	1785.6	1232.1	901.6	750.3	683.8	655.2	644.7	640.0	640.0
32.5°	2804.0	2449.6	1688.1	1102.5	807.6	693.1	646.4	627.1	619.0	616.6	616.6
35°	2940.7	2495.1	1593.0	979.8	731.7	646.4	610.8	599.7	593.9	593.3	595.0
37.5°	3132.8	2588.0	1503.6	889.3	677.9	608.5	581.0	572.2	568.7	571.7	574.0
40°	3374.5	2714.1	1422.4	807.6	637.1	578.1	553.6	547.7	546.0	550.1	553.6
42.5°	3666.5	2884.6	1355.9	748.6	605.5	552.4	530.2	523.2	521.4	526.1	530.8
45°	3982.4	3068.0	1309.2	704.8	581.0	533.1	509.8	502.2	498.7	501.0	506.3
47.5°	4269.7	3241.4	1290.5	673.9	557.7	516.8	491.7	482.3	476.5	475.3	479.4
50°	4512.0	3370.4	1299.2	655.2	539.0	498.7	474.1	463.6	454.9	449.6	452.5
52.5°	4688.4	3451.6	1307.4	647.0	524.4	478.8	454.9	445.0	433.3	424.5	424.5
55°	4816.2	3470.3	1289.3	640.6	513.3	457.2	433.3	423.9	412.3	402.3	401.2
57.5°	4866.4	3417.7	1222.2	631.2	505.7	436.8	410.5	403.5	393.6	381.9	381.3
60°	4798.7	3255.4	1092.5	611.4	495.8	419.8	387.7	383.1	378.4	367.3	366.7
62.5°	4526.6	2899.2	924.9	571.1	475.9	401.7	366.7	369.0	369.6	362.0	360.9
65°	4033.2	2409.9	761.4	518.5	446.1	380.1	345.1	356.2	362.6	361.5	359.7
67.5°	3316.1	1875.6	645.2	463.1	407.0	350.4	321.7	334.6	339.8	343.9	342.8
70°	2461.3	1322.6	533.7	404.7	359.7	315.3	291.4	297.8	294.3	299.0	300.7
72.5°	1372.2	793.6	435.0	346.3	310.6	274.4	257.5	256.3	248.8	248.8	248.8
74°	823.3	582.2	382.5	310.1	280.9	247.6	233.0	227.7	220.7	221.3	220.7
75°	662.2	500.4	350.9	286.1	259.8	231.8	217.2	210.2	205.0	205.0	204.4
77.5°	418.1	380.1	282.6	227.7	207.9	190.9	181.0	171.7	171.7	171.1	170.5
80°	315.9	302.5	220.1	172.3	159.4	146.6	140.1	136.1	136.1	137.8	137.2
82.5°	216.6	227.7	154.7	120.3	113.9	104.5	103.4	103.9	102.2	99.9	99.3
85°	158.2	171.1	104.5	75.9	69.5	63.6	68.3	70.7	67.7	62.5	60.1
87.5°	60.7	112.1	56.1	31.5	29.2	25.1	29.2	30.4	32.7	25.7	26.3
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)