

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: P458885

Luminaire Tested: **GLAN-SA4A-735-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458885  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17246 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

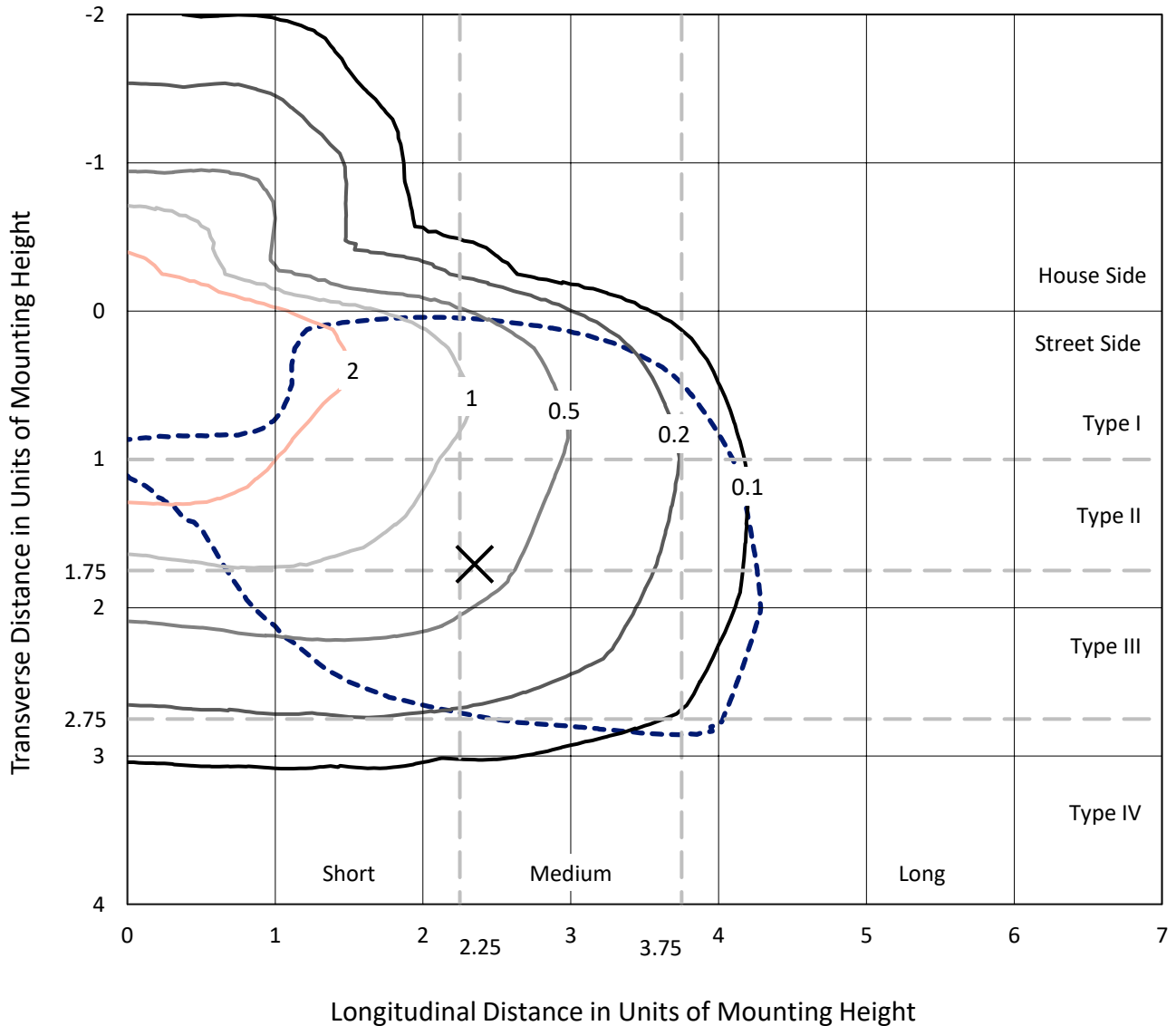
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

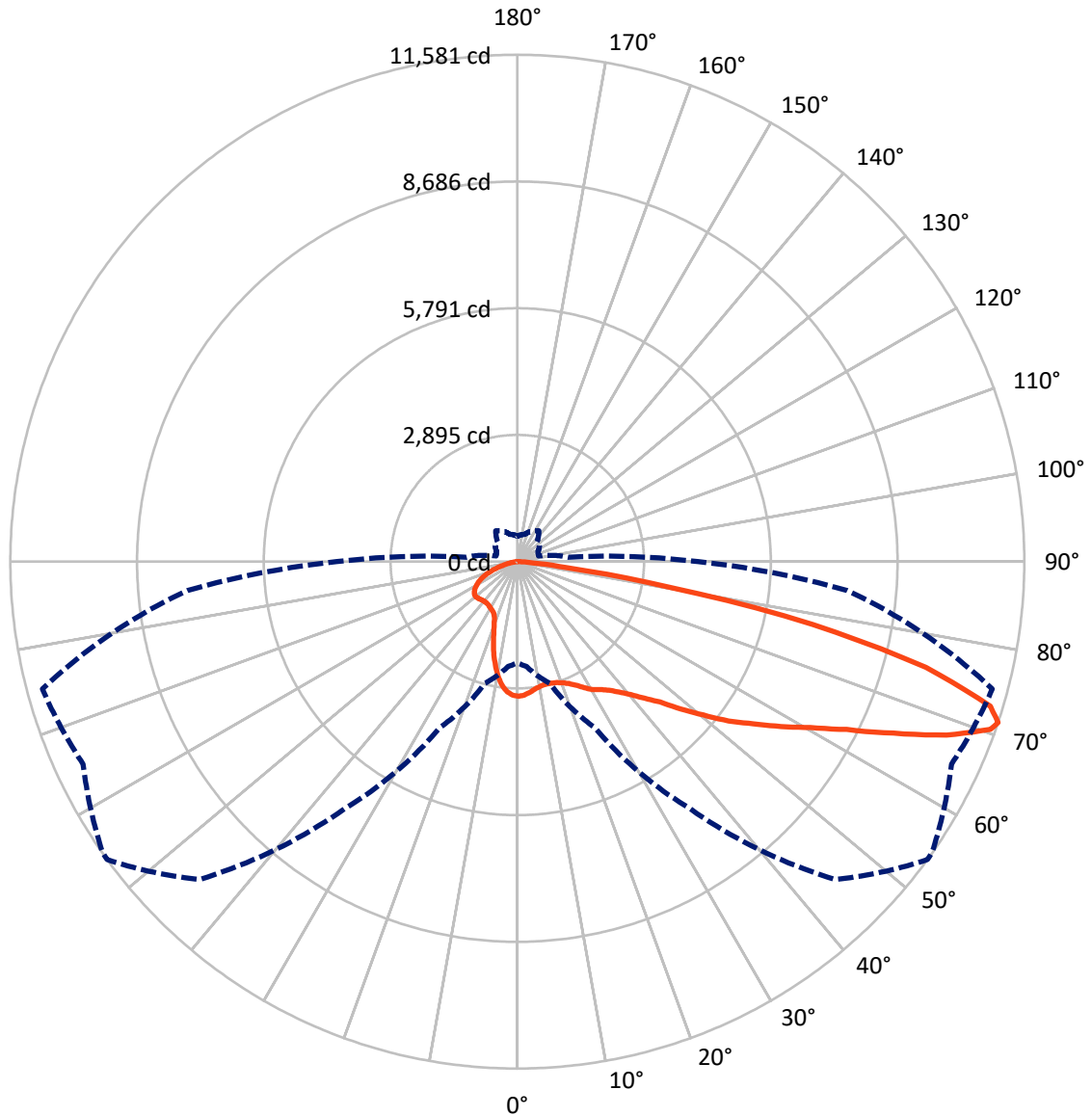
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3113.7	0.0	3113.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	14132.3	0.0	14132.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	17246.0	0.0	17246.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.2	1.6
10°-20°	724.0	4.2
20°-30°	1205.5	7.0
30°-40°	1782.6	10.3
40°-50°	2510.9	14.6
50°-60°	3362.1	19.5
60°-70°	4237.7	24.6
70°-80°	2894.4	16.8
80°-90°	254.5	1.5
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°	17246.0	100.0
0°-180°	17246.0	100.0

**Coefficient of Utilization**



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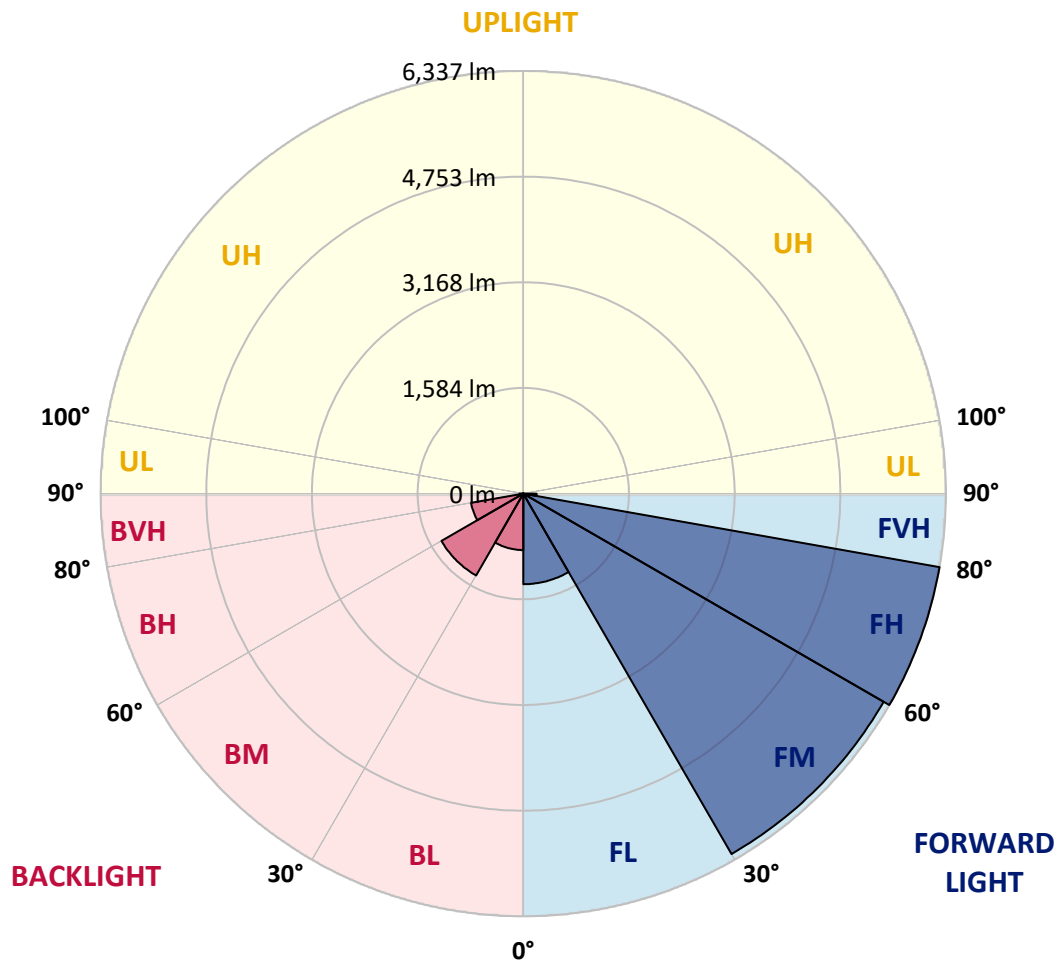
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1357.5	7.9			
FM	(30°-60°)	6239.0	36.2			
FH	(60°-80°)	6336.9	36.7			G3/7500
FVH	(80°-90°)	199.0	1.2			G2/225
BL	(0°-30°)	846.2	4.9	B2/1000		
BM	(30°-60°)	1416.6	8.2	B2/2500		
BH	(60°-80°)	795.2	4.6	B2/1000		G2/1000
BVH	(80°-90°)	55.6	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-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9
2.5°	2972.6	2986.6	2990.3	2999.6	3019.2	3035.0	3050.9	3049.0	3071.4	3080.7	3089.1
5°	2840.3	2844.1	2858.0	2876.7	2911.1	2954.9	2997.8	2998.7	3053.7	3097.4	3118.9
7.5°	2743.4	2755.6	2764.9	2784.4	2820.8	2868.3	2936.3	2941.9	3039.7	3126.3	3172.0
10°	2680.1	2694.1	2704.3	2728.5	2764.9	2818.0	2891.6	2901.8	3029.4	3172.0	3252.1
12.5°	2622.3	2636.3	2645.6	2677.3	2724.8	2790.0	2872.9	2885.0	3033.2	3225.1	3339.6
15°	2657.7	2668.9	2665.2	2674.5	2706.2	2780.7	2880.4	2892.5	3047.1	3276.3	3426.3
17.5°	2815.2	2824.5	2793.7	2758.3	2743.4	2798.4	2903.7	2916.7	3075.1	3329.4	3514.8
20°	3047.1	3072.3	3005.2	2926.0	2854.3	2861.8	2952.1	2966.1	3114.2	3382.5	3605.1
22.5°	3349.0	3367.6	3285.6	3155.2	3022.9	2954.9	3024.8	3033.2	3172.9	3451.4	3703.9
25°	3703.9	3715.1	3601.4	3433.7	3242.8	3114.2	3124.5	3139.4	3269.8	3529.7	3791.4
27.5°	4048.6	4084.0	3952.6	3747.7	3496.1	3281.9	3261.4	3270.7	3375.0	3573.5	3852.0
30°	4457.5	4454.7	4315.9	4078.4	3756.0	3464.5	3390.9	3389.0	3431.9	3594.9	3895.8
32.5°	4783.6	4821.8	4685.7	4426.8	4053.2	3653.6	3480.3	3476.6	3475.6	3632.2	3961.0
35°	5154.3	5159.9	5035.1	4774.2	4374.6	3891.1	3605.1	3586.5	3565.1	3712.3	4049.5
37.5°	5486.0	5512.0	5397.5	5104.9	4690.4	4138.0	3776.5	3764.4	3699.2	3851.1	4191.1
40°	5744.9	5764.5	5695.6	5417.0	5001.5	4404.4	3994.5	3972.2	3893.0	4078.4	4380.2
42.5°	5829.7	5869.8	5896.8	5759.8	5359.3	4720.2	4262.8	4234.9	4174.3	4423.0	4598.2
45°	5836.2	5899.6	6042.1	6048.6	5718.8	5098.4	4575.8	4556.3	4551.6	4864.6	4904.7
47.5°	5786.8	5851.1	6090.5	6220.0	6039.3	5480.4	5027.6	4996.9	4999.7	5410.5	5248.4
50°	5667.6	5744.0	6034.6	6329.9	6289.9	5877.2	5504.6	5494.3	5552.1	6033.7	5605.2
52.5°	5443.1	5535.3	5976.9	6398.9	6476.2	6219.1	6046.8	6017.9	6164.1	6710.0	5995.5
55°	4821.8	4960.6	5765.4	6437.1	6653.2	6546.1	6534.9	6587.1	6780.8	7447.8	6425.0
57.5°	4497.6	4601.9	5306.2	6443.6	6876.8	6926.1	7105.0	7118.0	7457.1	8231.3	6910.3
60°	4320.6	4412.8	5054.6	6400.7	7188.8	7396.6	7688.2	7734.7	8117.6	9079.9	7413.4
62.5°	4165.9	4245.1	4903.7	6252.6	7541.0	8094.3	8443.7	8466.0	8867.5	10017.1	7909.9
65°	3801.7	3892.1	4600.0	6104.5	7844.7	8966.3	9446.0	9419.9	9665.9	10825.7	8221.0
67.5°	3310.8	3425.3	4032.7	5593.1	7994.6	9919.2	10575.1	10542.5	10454.0	11355.7	8310.4
70°	2683.8	2745.3	3307.0	4709.0	7395.7	10419.5	11466.6	11432.1	10942.1	11425.6	7887.5
71°	2309.3	2405.3	2879.5	4182.7	6897.3	10266.7	11581.2	11571.8	10943.0	11232.7	7568.9
72.5°	1802.6	1861.3	2280.5	3240.9	5862.3	9398.5	11298.0	11333.4	10705.5	10697.1	6912.2
75°	1140.2	1166.3	1430.9	1907.8	3216.7	6656.0	9644.4	9740.4	9505.6	8755.7	5140.3
77.5°	662.3	695.9	857.0	1124.4	1389.9	3612.6	6901.0	7005.3	6604.8	4820.8	2104.4
80°	385.7	422.9	564.5	653.0	638.1	1340.5	3513.8	3691.8	2859.9	1217.5	590.6
82.5°	214.3	239.4	396.8	397.8	340.0	437.8	1105.8	1157.0	816.0	490.9	241.3
85°	155.6	176.1	256.2	232.0	163.0	188.2	384.7	403.4	329.8	206.8	78.3
87.5°	55.0	78.3	140.7	111.8	44.7	39.1	110.9	90.4	83.8	57.8	17.7
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°	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9	3076.9
2.5°	3093.7	3095.6	3086.3	3069.5	3052.7	3031.3	3007.1	2988.4	2980.1	2979.1	2978.2
5°	3127.2	3131.9	3096.5	3044.3	2986.6	2915.8	2855.2	2786.3	2768.6	2740.6	2749.0
7.5°	3181.3	3178.5	3108.6	2997.8	2862.7	2712.7	2586.0	2512.4	2436.0	2414.6	2415.5
10°	3258.6	3240.9	3108.6	2902.7	2677.3	2454.7	2277.7	2165.9	2105.3	2055.0	2036.4
12.5°	3340.6	3295.9	3078.8	2769.5	2438.8	2165.9	1975.8	1824.9	1785.8	1744.8	1745.7
15°	3418.8	3344.3	3020.1	2582.3	2181.7	1857.5	1673.1	1582.7	1570.6	1575.3	1574.3
17.5°	3489.6	3378.8	2930.7	2373.6	1881.8	1593.0	1495.2	1501.7	1534.3	1557.6	1560.4
20°	3561.4	3399.3	2797.5	2094.1	1598.6	1432.7	1436.5	1487.7	1537.1	1568.7	1573.4
22.5°	3629.4	3408.6	2641.0	1824.0	1393.6	1364.7	1419.7	1474.7	1523.1	1553.8	1558.5
25°	3674.1	3387.2	2419.3	1541.7	1293.0	1340.5	1398.3	1444.8	1485.8	1517.5	1525.0
27.5°	3686.2	3318.2	2144.5	1313.5	1246.4	1317.2	1370.3	1404.8	1436.5	1466.3	1471.9
30°	3679.7	3216.7	1842.6	1179.4	1219.4	1290.2	1331.2	1356.4	1394.5	1417.8	1422.5
32.5°	3669.4	3098.4	1527.8	1107.6	1197.1	1265.1	1289.3	1311.6	1310.7	1301.4	1307.9
35°	3673.1	2956.8	1272.5	1064.8	1177.5	1246.4	1266.9	1239.0	1158.9	1155.1	1151.4
37.5°	3692.7	2817.0	1087.1	1035.0	1167.2	1243.6	1254.8	1126.3	1055.5	1022.9	1014.5
40°	3743.0	2654.0	965.1	1012.6	1166.3	1265.1	1199.8	1069.4	933.4	870.1	865.4
42.5°	3810.1	2493.8	890.6	998.6	1177.5	1297.7	1177.5	989.3	841.2	803.9	798.3
45°	3909.8	2310.3	849.6	992.1	1194.3	1309.8	1170.0	930.6	803.9	774.1	774.1
47.5°	4022.5	2135.1	827.2	987.5	1215.7	1301.4	1103.9	912.0	786.2	790.0	807.7
50°	4134.3	1983.3	810.5	977.2	1234.3	1296.7	1076.9	911.1	790.9	838.4	870.1
52.5°	4263.7	1876.2	790.0	960.4	1234.3	1266.9	1068.5	929.7	803.9	817.9	831.9
55°	4420.3	1842.6	763.9	924.1	1212.0	1192.4	1063.8	956.7	813.3	780.6	786.2
57.5°	4627.1	1896.7	738.7	878.5	1160.7	1115.1	1062.0	964.2	791.8	764.8	759.2
60°	4867.4	2003.8	731.3	831.9	1090.9	1048.9	1050.8	942.7	762.0	734.1	738.7
62.5°	5036.0	2068.1	726.6	796.5	1014.5	976.3	1023.8	916.7	749.0	724.8	729.4
65°	5036.0	1989.8	683.8	742.5	915.7	888.7	991.2	884.1	732.2	704.3	699.6
67.5°	4845.0	1761.6	618.6	661.4	806.7	789.0	945.5	844.9	707.1	685.6	674.4
70°	4347.6	1335.9	536.6	566.4	668.9	684.7	886.8	791.8	665.1	639.0	622.3
71°	4128.7	1163.5	502.1	517.9	615.8	639.0	858.9	769.5	646.5	609.2	579.4
72.5°	3706.7	980.0	449.9	456.5	526.3	568.3	800.2	726.6	611.1	558.0	524.5
75°	2816.1	715.4	362.4	358.7	389.4	450.9	677.2	647.4	535.6	463.9	444.4
77.5°	1216.6	389.4	271.1	273.9	264.6	341.9	532.9	556.1	459.3	377.3	359.6
80°	368.9	224.5	185.4	189.1	177.0	229.2	375.4	436.0	368.9	293.4	269.2
82.5°	189.1	134.1	126.7	124.8	112.7	129.5	227.3	298.1	263.6	183.5	162.1
85°	82.0	71.7	62.4	60.6	53.1	46.6	81.0	149.0	139.7	102.5	97.8
87.5°	20.5	18.6	12.1	11.2	6.5	0.9	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)