

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: P319200

Luminaire Tested: **GAN-SA6B-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26970 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

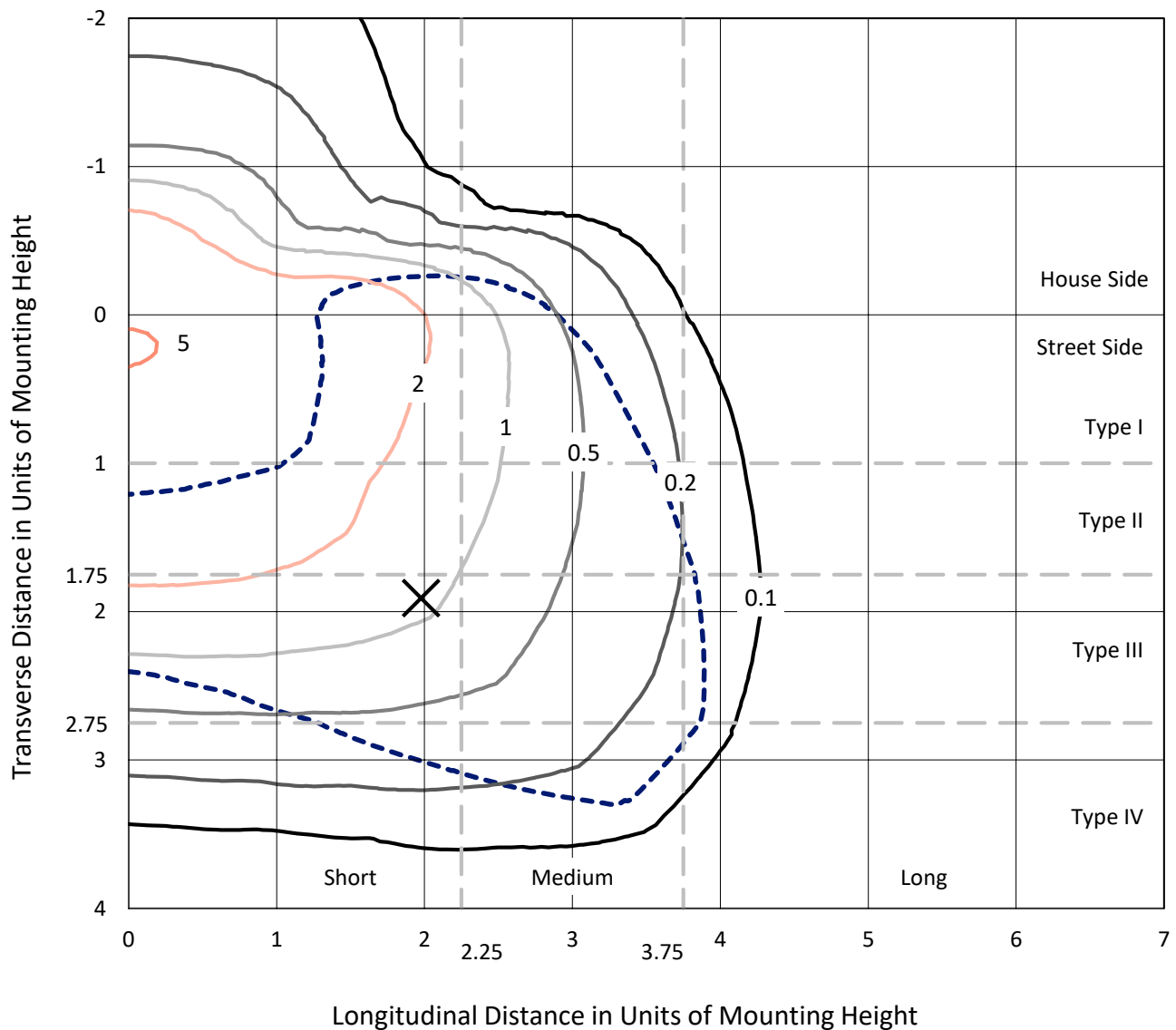


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Iso-Footcandle Lines of Horizontal Illumination

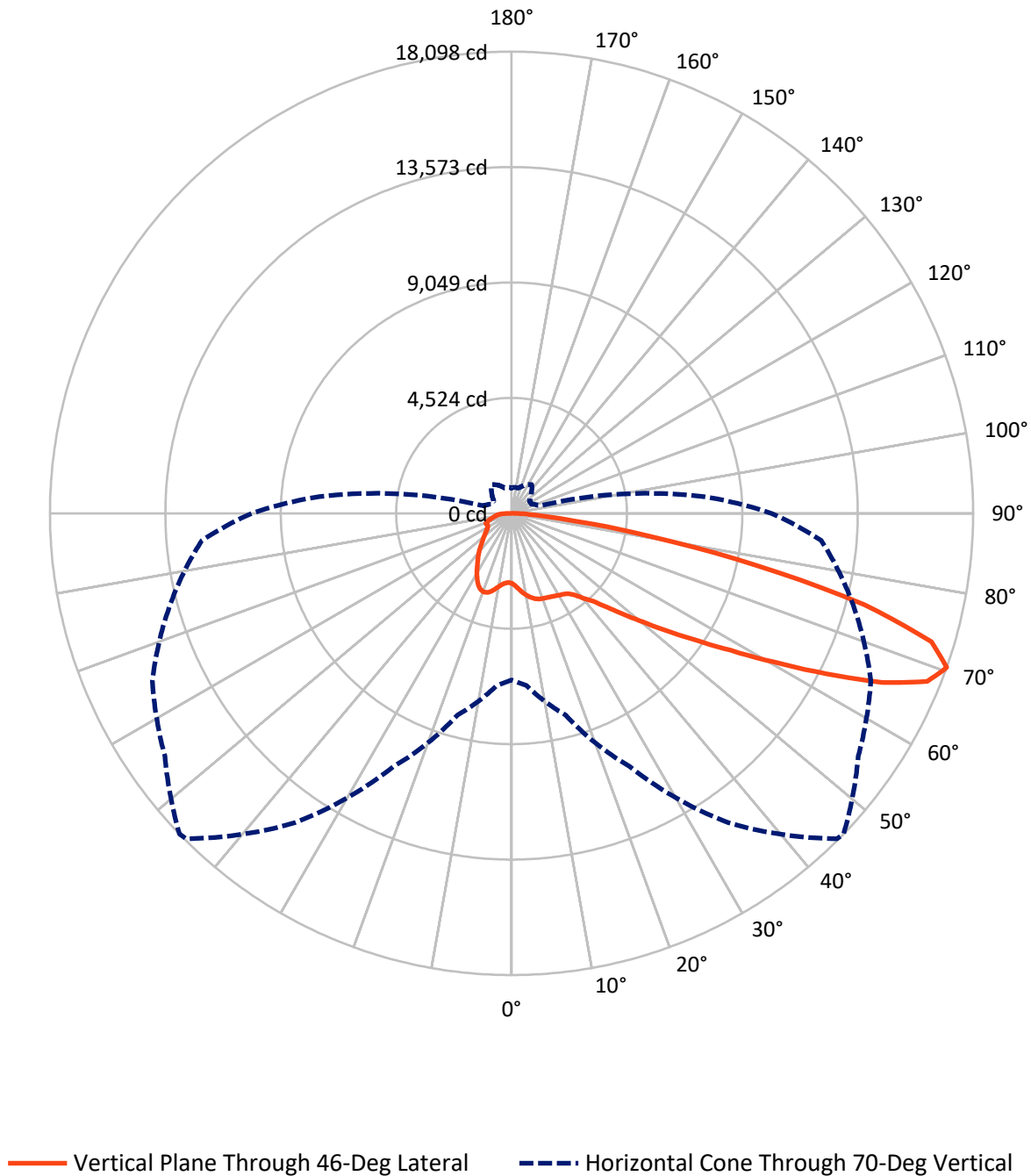
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	6181.4	0.0	6181.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	20788.6	0.0	20788.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	26970.0	0.0	26970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.1	1.0
10°-20°	933.2	3.5
20°-30°	1556.1	5.8
30°-40°	2208.2	8.2
40°-50°	3248.1	12.0
50°-60°	5500.6	20.4
60°-70°	7808.0	29.0
70°-80°	4743.4	17.6
80°-90°	692.2	2.6
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°	26970.0	100.0
0°-180°	26970.0	100.0

Coefficient of Utilization



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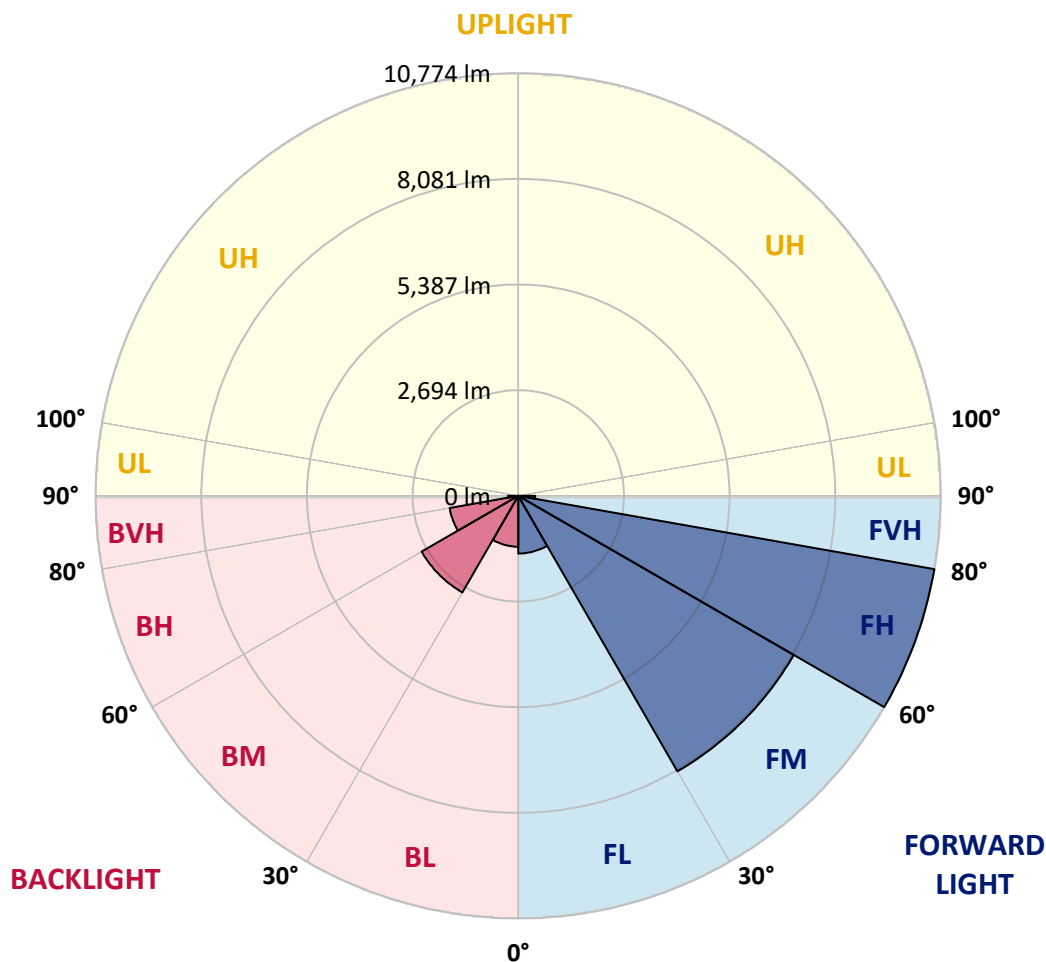
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1471.6	5.5			
FM	(30°-60°)	8111.4	30.1			
FH	(60°-80°)	10774.4	39.9			G4/12000
FVH	(80°-90°)	431.2	1.6			G3/500
BL	(0°-30°)	1297.8	4.8	B3/2500		
BM	(30°-60°)	2845.5	10.6	B3/5000		
BH	(60°-80°)	1777.1	6.6	B3/2500		G3/2500
BVH	(80°-90°)	261.0	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7
2.5°	2885.2	2887.1	2890.8	2881.5	2855.7	2848.3	2845.6	2818.8	2801.2	2775.4	2753.3
5°	3116.0	3117.8	3112.3	3086.4	3029.2	2986.8	2983.1	2922.2	2866.8	2807.7	2763.4
7.5°	3356.9	3359.7	3342.1	3293.2	3212.9	3139.1	3134.4	3051.4	2967.4	2877.9	2811.4
10°	3570.1	3559.0	3530.4	3462.1	3367.0	3276.6	3272.9	3186.1	3089.2	2981.2	2892.6
12.5°	3712.2	3703.0	3666.1	3583.0	3478.7	3395.6	3388.3	3308.0	3213.8	3095.7	2989.5
15°	3790.7	3797.1	3747.3	3653.2	3551.6	3481.5	3475.0	3417.8	3333.8	3214.7	3092.9
17.5°	3800.8	3806.4	3758.4	3665.2	3582.1	3534.1	3531.3	3493.5	3432.6	3318.1	3190.7
20°	3741.8	3745.5	3705.8	3629.2	3574.7	3559.9	3559.0	3542.4	3497.2	3395.6	3272.0
22.5°	3655.9	3658.7	3630.1	3574.7	3556.2	3579.3	3585.8	3579.3	3547.0	3451.9	3335.7
25°	3634.7	3632.9	3603.3	3547.0	3562.7	3611.6	3619.9	3622.7	3600.5	3517.5	3416.9
27.5°	3737.2	3730.7	3674.4	3583.9	3594.1	3653.2	3664.2	3691.0	3677.2	3604.2	3509.2
30°	4033.4	4022.4	3907.0	3724.2	3674.4	3704.8	3718.7	3761.1	3763.9	3703.0	3631.9
32.5°	4533.7	4519.8	4313.1	3986.4	3810.1	3757.5	3770.4	3834.1	3868.2	3821.1	3744.5
35°	5165.9	5150.2	4878.9	4432.2	4037.1	3858.1	3867.3	3918.1	3986.4	3919.9	3818.4
37.5°	5824.9	5787.1	5525.9	4956.4	4398.0	4073.1	4073.1	4079.6	4111.9	3973.4	3905.1
40°	6480.3	6442.4	6206.1	5573.0	4865.0	4411.9	4390.6	4247.6	4221.7	4102.7	4079.6
42.5°	7089.4	7078.3	6939.0	6269.8	5413.3	4745.0	4715.5	4472.8	4478.3	4404.5	4405.4
45°	7737.4	7737.4	7623.8	6973.1	6052.0	5280.4	5250.8	4893.6	4949.0	4914.9	4997.0
47.5°	8266.2	8282.8	8267.1	7706.0	6795.0	5960.6	5907.1	5477.0	5632.0	5749.3	5988.3
50°	8806.2	8832.0	8834.8	8509.9	7693.0	6769.1	6708.2	6251.4	6597.5	6933.4	7403.2
52.5°	9589.8	9647.9	9416.3	9312.0	8793.2	7729.0	7669.1	7247.2	7825.0	8296.7	9106.1
55°	10316.2	10265.4	10100.2	10164.8	9971.0	8821.9	8776.6	8406.5	9192.9	9805.8	10857.0
57.5°	10709.4	10705.7	10871.8	11148.7	11241.0	10169.4	10131.6	9771.6	10735.2	11195.8	12500.9
60°	11170.8	11177.3	11589.0	12217.5	12597.8	11847.4	11830.8	11557.6	12233.2	12493.5	13790.3
62.5°	11235.5	11351.7	12060.6	13142.3	13867.8	13807.8	13844.7	13166.3	13573.4	13529.1	14752.9
65°	10492.5	10645.7	11928.6	13422.0	15130.4	15951.9	15986.0	14784.3	14630.2	14414.2	15097.2
67.5°	8969.5	9196.6	10590.3	12813.7	15546.7	17536.6	17584.6	16038.6	15507.0	14714.2	14268.4
70°	6527.3	6779.3	8182.2	10943.8	14804.6	18043.4	18097.8	16593.4	15540.2	13860.4	12180.6
72.5°	3943.0	4140.5	5297.0	8056.7	12495.3	17120.4	17217.3	15890.0	14188.1	11740.3	8994.5
75°	1731.5	1860.7	2561.3	4642.6	8945.5	14165.0	14285.9	13601.1	11528.0	8532.0	5316.4
77.5°	737.5	774.4	1050.4	2016.7	5057.0	9679.3	9845.4	9937.7	7821.3	4642.6	2246.5
80°	459.6	474.4	594.4	912.8	2366.5	5436.4	5615.4	5847.1	3883.9	1706.6	784.5
82.5°	279.7	296.3	395.0	551.9	1232.2	2464.4	2550.2	2713.6	1507.2	737.5	406.1
85°	168.0	180.0	241.8	348.9	701.5	969.1	968.2	1070.7	709.8	474.4	214.1
87.5°	80.3	89.5	129.2	180.9	353.5	363.7	340.6	385.8	431.0	311.0	108.0
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°	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7	2747.7
2.5°	2745.9	2742.2	2730.2	2720.9	2719.1	2713.6	2708.9	2711.7	2715.4	2716.3	2716.3
5°	2744.9	2734.8	2719.1	2712.6	2720.9	2732.0	2745.9	2764.3	2775.4	2783.7	2789.2
7.5°	2789.2	2769.9	2752.3	2748.6	2765.3	2794.8	2826.2	2864.9	2891.7	2910.2	2913.9
10°	2863.1	2839.1	2821.6	2825.2	2854.8	2897.2	2941.5	2991.4	3032.0	3056.9	3058.8
12.5°	2948.0	2924.9	2908.3	2924.0	2972.9	3024.6	3070.8	3114.1	3151.1	3176.0	3176.0
15°	3045.8	3029.2	3009.8	3045.8	3112.3	3158.4	3177.8	3199.1	3219.4	3237.8	3234.1
17.5°	3140.0	3124.3	3114.1	3156.6	3225.8	3247.0	3234.1	3218.4	3218.4	3228.6	3230.4
20°	3221.2	3207.4	3213.8	3255.4	3291.4	3269.2	3221.2	3171.4	3151.1	3156.6	3162.1
22.5°	3292.3	3285.8	3305.2	3324.6	3298.7	3221.2	3132.6	3065.2	3040.3	3038.5	3040.3
25°	3375.3	3374.4	3398.4	3363.3	3248.9	3105.8	2986.8	2921.2	2907.4	2918.5	2936.9
27.5°	3478.7	3488.9	3500.9	3372.6	3147.4	2931.4	2810.5	2765.3	2779.1	2805.9	2823.4
30°	3610.7	3638.4	3612.5	3349.5	3001.5	2732.0	2616.7	2603.7	2641.6	2679.4	2697.9
32.5°	3739.0	3782.4	3719.6	3289.5	2813.2	2520.7	2431.1	2427.4	2473.6	2510.5	2536.4
35°	3842.4	3928.2	3799.9	3170.4	2595.4	2325.9	2260.4	2235.5	2252.1	2295.5	2325.0
37.5°	3977.1	4120.2	3855.3	2988.6	2359.1	2165.3	2088.7	2031.5	2016.7	2034.3	2049.0
40°	4223.6	4412.8	3881.1	2734.8	2128.4	2004.7	1927.2	1843.2	1785.0	1742.6	1743.5
42.5°	4626.0	4794.0	3864.5	2426.5	1915.2	1847.8	1760.1	1663.2	1569.1	1473.1	1465.7
45°	5279.5	5360.7	3814.7	2099.8	1727.8	1683.5	1601.4	1504.5	1378.9	1270.0	1259.9
47.5°	6325.2	6145.2	3737.2	1814.6	1562.6	1544.1	1468.5	1356.8	1223.9	1136.2	1128.8
50°	7751.2	7277.7	3699.3	1587.5	1416.8	1422.3	1360.5	1242.3	1116.8	1052.2	1044.8
52.5°	9456.9	8596.6	3772.2	1412.2	1299.6	1318.9	1272.8	1162.0	1056.8	1006.0	998.7
55°	11226.2	9962.7	3850.7	1284.8	1188.8	1226.6	1211.0	1119.6	1024.5	977.4	971.0
57.5°	12740.8	10982.6	3693.8	1181.4	1090.0	1149.1	1163.0	1092.8	1007.9	965.4	958.1
60°	13694.3	11393.3	3282.1	1084.5	1011.6	1087.3	1135.3	1085.4	1014.4	1010.7	1005.1
62.5°	14146.5	11357.3	2664.6	1007.9	962.7	1060.5	1155.6	1127.0	1088.2	1121.4	1124.2
65°	13943.5	10814.6	1984.4	957.1	927.6	1070.7	1216.5	1205.4	1109.4	1142.7	1147.3
67.5°	12607.0	9519.6	1469.4	912.8	888.8	1099.3	1327.2	1231.3	1067.9	1091.9	1077.1
70°	10189.7	7547.2	1133.4	863.0	849.1	1095.6	1377.1	1215.6	1022.7	1028.2	988.5
72.5°	7026.7	5146.5	922.1	816.8	791.9	998.7	1342.0	1176.8	984.8	942.4	889.8
75°	3821.1	2762.5	783.6	768.8	691.3	876.8	1277.4	1149.1	950.7	894.4	864.8
77.5°	1503.5	1146.3	680.2	703.3	604.6	774.4	1205.4	1096.5	903.6	829.8	815.0
80°	613.8	585.2	563.9	608.2	519.6	677.5	1118.7	1034.7	847.3	769.8	740.2
82.5°	348.0	363.7	438.4	480.0	421.8	623.9	1077.1	984.8	779.9	689.5	654.4
85°	178.1	213.2	305.5	344.3	310.1	530.7	992.2	862.1	625.8	527.9	530.7
87.5°	85.8	119.1	192.9	216.0	201.2	384.0	741.2	624.9	487.3	385.8	373.8
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)