

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: P318241

Luminaire Tested: **GAN-SA7B-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31521 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

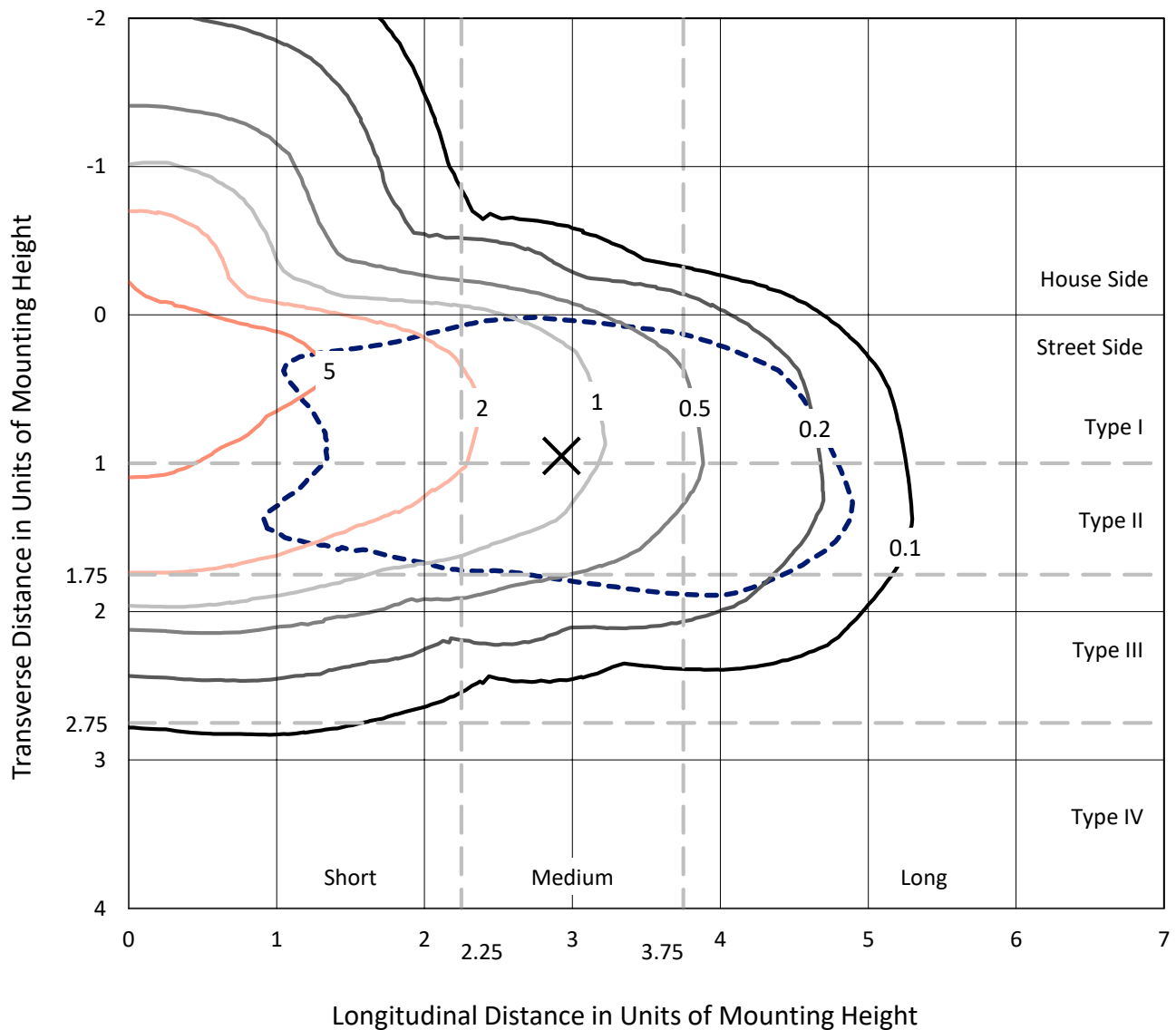
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

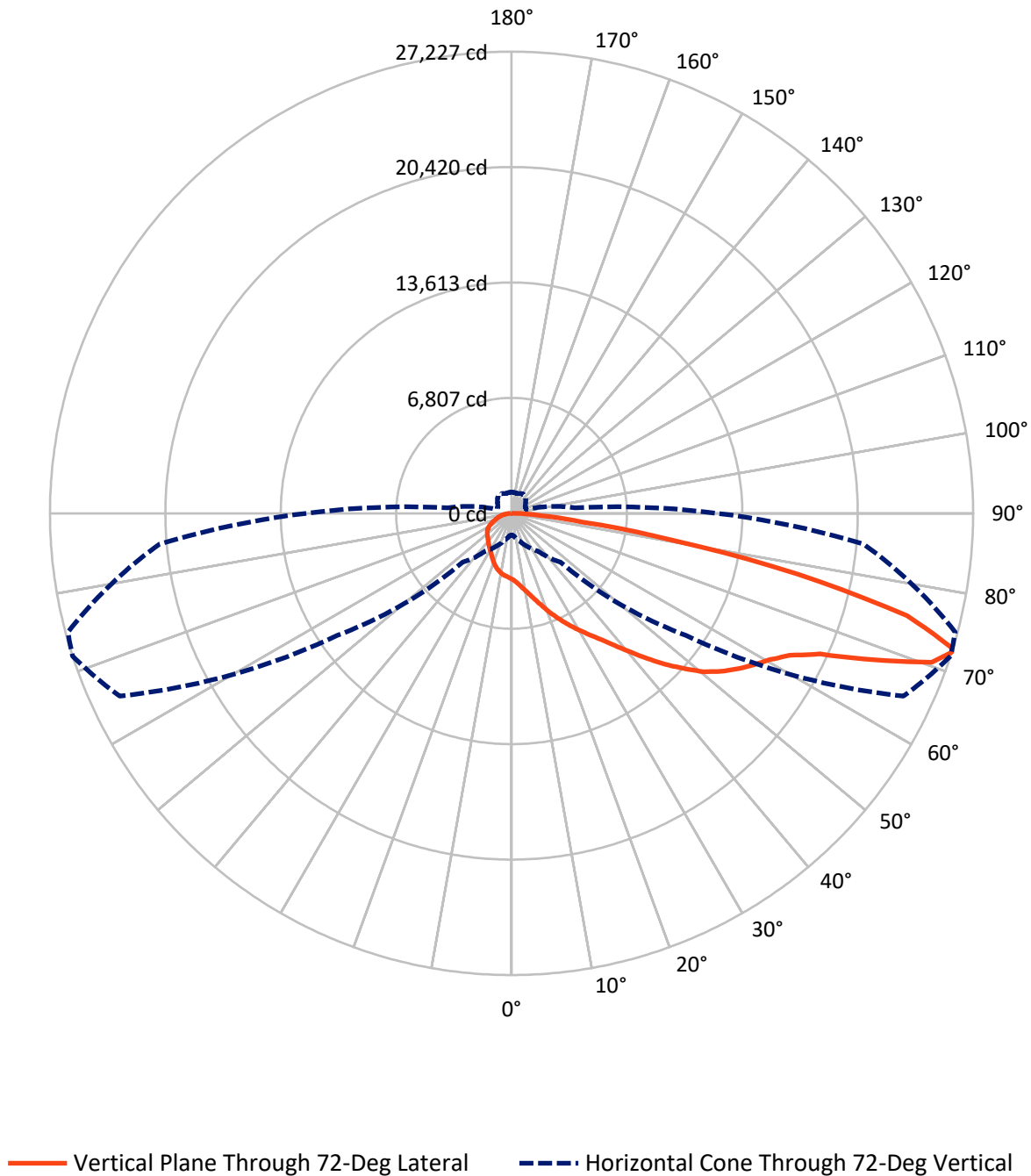
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5847.4	0.0	5847.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	25673.6	0.0	25673.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	31521.0	0.0	31521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.6	1.2
10°-20°	1255.7	4.0
20°-30°	2200.4	7.0
30°-40°	3262.5	10.4
40°-50°	4771.6	15.1
50°-60°	6565.7	20.8
60°-70°	7309.6	23.2
70°-80°	4953.0	15.7
80°-90°	814.1	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°	31521.0	100.0
0°-180°	31521.0	100.0

Coefficient of Utilization



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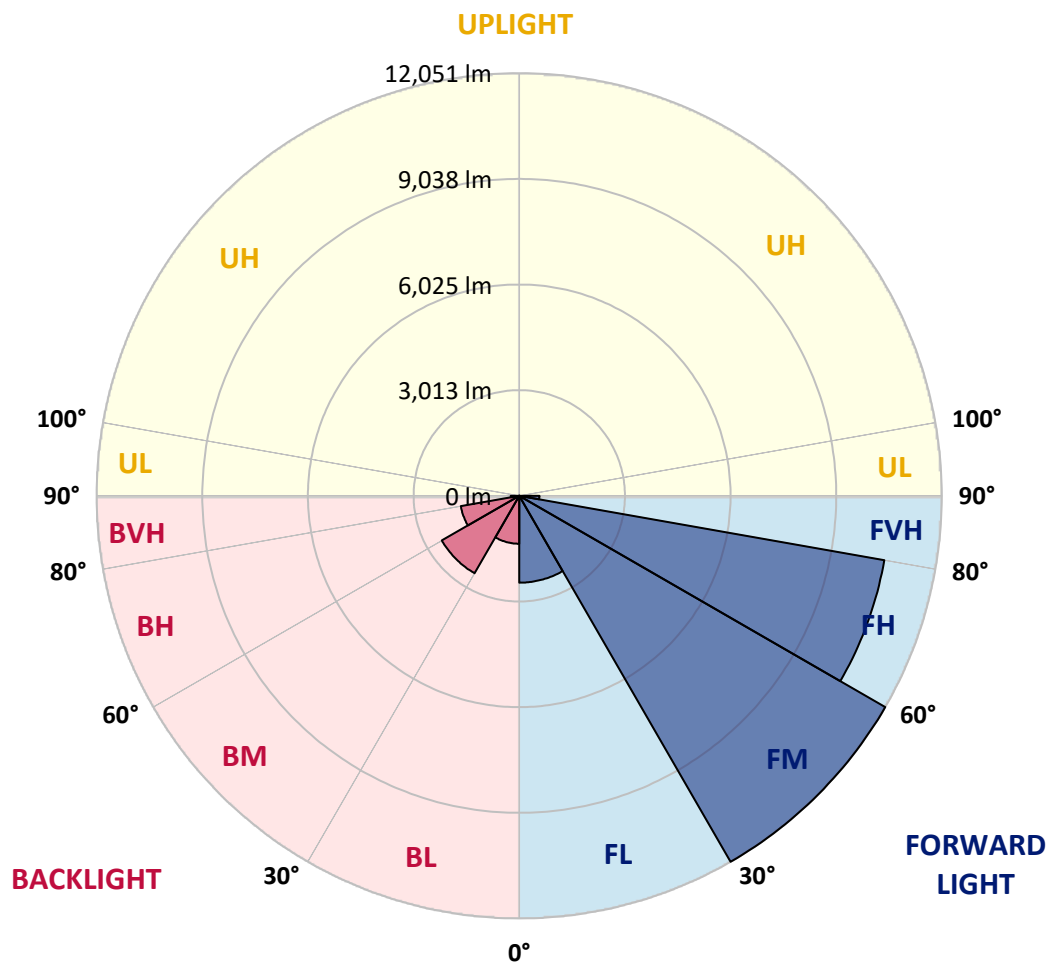
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2477.7	7.9			
FM	(30°-60°)	12050.9	38.2			
FH	(60°-80°)	10570.8	33.5			G4/12000
FVH	(80°-90°)	574.2	1.8			G4/750
BL	(0°-30°)	1366.9	4.3	B3/2500		
BM	(30°-60°)	2548.9	8.1	B3/5000		
BH	(60°-80°)	1691.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	239.8	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3877.9	3877.9	3877.9	3877.9	3877.9	3877.9	3877.9	3877.9	3877.9	3877.9	3877.9
2.5°	4283.8	4277.3	4254.5	4254.5	4211.1	4174.2	4104.7	4058.1	4002.7	3983.2	3918.1
5°	4698.4	4700.6	4672.4	4652.8	4588.8	4510.7	4392.4	4284.9	4177.5	4134.0	4000.5
7.5°	5046.8	5042.5	5034.9	5018.6	4958.9	4878.6	4719.0	4559.5	4401.0	4335.9	4105.8
10°	5270.4	5280.2	5286.7	5294.3	5269.3	5211.8	5060.9	4866.6	4659.3	4570.3	4231.7
12.5°	5383.3	5400.6	5431.0	5483.1	5524.4	5517.8	5408.2	5202.0	4955.6	4843.9	4389.1
15°	5449.5	5472.3	5520.0	5613.4	5729.5	5795.7	5766.4	5579.7	5305.1	5167.3	4581.2
17.5°	5490.7	5509.2	5583.0	5707.8	5880.4	6056.2	6133.2	5976.9	5700.2	5542.8	4801.5
20°	5518.9	5533.0	5625.3	5771.8	5995.4	6275.4	6490.3	6451.2	6135.4	5931.4	5031.6
22.5°	5581.9	5593.8	5681.7	5829.3	6076.8	6438.2	6834.4	6893.0	6594.5	6363.3	5278.0
25°	5757.7	5757.7	5831.5	5934.6	6166.9	6579.3	7125.2	7384.6	7063.4	6794.2	5505.9
27.5°	6093.1	6089.8	6117.0	6152.8	6328.6	6722.6	7384.6	7818.8	7549.6	7255.5	5727.3
30°	6490.3	6512.0	6515.3	6497.9	6580.4	6901.7	7624.5	8276.8	8039.1	7722.2	5954.2
32.5°	7001.5	7015.6	6999.3	6941.8	6929.9	7155.6	7860.0	8756.5	8568.7	8209.5	6161.5
35°	7650.5	7623.4	7572.4	7455.2	7343.4	7495.3	8129.2	9236.2	9163.5	8798.8	6446.9
37.5°	8346.2	8347.3	8284.4	8018.5	7864.3	7929.5	8500.4	9780.0	9883.1	9499.9	6812.7
40°	8904.1	8933.4	8972.5	8623.0	8423.3	8513.4	8972.5	10410.5	10734.0	10331.3	7289.1
42.5°	9293.7	9327.4	9438.1	9218.8	9011.5	9178.7	9528.2	11083.5	11689.1	11290.7	7847.0
45°	9706.2	9724.6	9802.8	9708.3	9575.9	9952.5	10154.4	11780.2	12699.5	12313.1	8471.0
47.5°	10140.3	10159.8	10240.1	10177.2	10107.7	10675.4	10807.8	12436.9	13667.6	13436.5	9137.4
50°	10676.4	10689.5	10765.4	10651.5	10673.2	11220.2	11391.7	13039.2	14682.4	14445.8	9806.0
52.5°	11408.0	11411.2	11516.5	11413.4	11311.4	11619.6	11894.2	13606.9	15478.0	15366.2	10474.6
55°	11981.0	12015.8	12360.9	12339.2	12280.6	11982.1	12314.2	14147.4	16187.8	16241.0	11184.4
57.5°	11615.3	11750.9	12449.9	12942.6	13422.3	12884.0	12881.9	14756.2	16847.7	17099.5	11964.7
60°	10172.9	10357.4	11387.3	12480.3	13981.3	14453.4	14060.5	15499.7	17514.1	17950.4	12942.6
62.5°	7265.2	7569.1	8964.9	10710.1	13215.1	15493.2	16459.1	16679.4	18420.3	18935.9	14213.6
65°	3672.8	3902.9	5072.9	7175.2	10558.1	14813.8	19066.1	19262.5	19995.1	20453.2	16170.4
67.5°	2231.5	2318.3	2889.2	3990.8	6472.9	11539.3	19917.0	23568.1	23042.8	23285.9	18960.8
70°	1644.3	1708.3	2064.3	2650.4	3722.7	6771.4	17305.7	26640.7	26295.5	26268.4	21023.0
72°	1280.7	1327.4	1642.1	2141.4	2722.0	4062.4	12543.2	25506.5	27226.7	27090.0	20834.1
72.5°	1214.5	1255.7	1542.3	2015.5	2572.2	3682.5	11277.7	24741.3	27159.4	27097.6	20589.9
75°	956.2	985.5	1141.8	1558.5	2013.3	2089.3	6179.9	19173.5	24093.4	25095.1	18519.1
77.5°	791.2	795.6	878.0	1134.2	1569.4	1477.1	3035.7	13303.0	17252.5	18354.1	13118.5
80°	644.7	650.1	689.2	795.6	1187.4	1092.9	1441.3	7649.4	9659.5	9671.4	6238.5
82.5°	513.4	514.4	557.9	581.7	853.1	781.4	825.9	3591.4	4220.9	4060.2	2242.3
85°	361.4	353.8	544.8	477.5	557.9	501.4	455.8	1421.8	1745.2	1669.2	702.2
87.5°	120.5	124.8	242.0	309.3	325.6	284.4	203.0	544.8	658.8	653.4	222.5
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°	3877.9	3877.9	3877.9	3877.9	3877.9	3877.9	3877.9	3877.9	3877.9	3877.9	3877.9
2.5°	3897.4	3862.7	3811.7	3755.3	3710.8	3665.2	3631.5	3614.2	3594.6	3578.4	3597.9
5°	3938.7	3873.6	3765.0	3658.7	3580.5	3511.1	3461.1	3435.1	3411.2	3394.9	3397.1
7.5°	4006.0	3900.7	3718.4	3563.2	3454.6	3379.7	3328.7	3311.4	3296.2	3291.8	3297.3
10°	4077.6	3922.4	3656.5	3450.3	3326.6	3264.7	3241.9	3253.8	3264.7	3274.5	3285.3
12.5°	4159.0	3941.9	3566.4	3317.9	3212.6	3188.7	3211.5	3263.6	3301.6	3324.4	3338.5
15°	4265.4	3959.3	3462.2	3185.5	3114.9	3142.0	3219.1	3309.2	3375.4	3417.7	3424.2
17.5°	4363.1	3958.2	3328.7	3052.0	3035.7	3114.9	3231.0	3358.0	3447.0	3506.7	3518.7
20°	4464.0	3928.9	3173.5	2921.7	2955.4	3085.6	3236.5	3389.5	3497.0	3566.4	3582.7
22.5°	4558.4	3877.9	3003.1	2803.4	2888.1	3046.5	3215.9	3371.1	3478.5	3534.9	3552.3
25°	4622.4	3788.9	2830.6	2703.6	2828.4	2998.8	3148.6	3273.4	3353.7	3381.9	3386.2
27.5°	4655.0	3672.8	2667.8	2616.7	2766.5	2920.6	3023.7	3085.6	3108.4	3106.2	3101.9
30°	4659.3	3519.7	2527.7	2546.2	2694.9	2805.6	2854.4	2842.5	2813.2	2763.3	2767.6
32.5°	4645.2	3347.2	2410.5	2478.9	2603.7	2665.6	2667.8	2610.2	2532.1	2452.9	2431.2
35°	4649.6	3177.9	2307.4	2402.9	2493.0	2520.2	2495.2	2410.5	2304.2	2202.1	2180.4
37.5°	4697.3	3030.3	2218.4	2315.0	2370.4	2376.9	2341.1	2252.1	2173.9	2074.1	2065.4
40°	4811.3	2925.0	2133.8	2216.3	2247.7	2251.0	2200.0	2137.0	2143.5	2090.4	2089.3
42.5°	5016.4	2879.4	2058.9	2113.1	2132.7	2139.2	2100.1	2060.0	2116.4	2081.7	2069.7
45°	5281.2	2890.2	1995.9	2012.2	2048.0	2078.4	2054.5	2005.7	2027.4	1876.5	1826.6
47.5°	5587.3	2959.7	1946.0	1925.4	1987.3	2044.8	2007.9	1934.1	1857.0	1707.2	1679.0
50°	5945.5	3067.2	1900.4	1839.6	1921.0	1999.2	1962.3	1857.0	1740.9	1668.2	1658.4
52.5°	6318.8	3198.5	1854.8	1745.2	1837.5	1964.5	1946.0	1839.6	1696.4	1624.7	1611.7
55°	6742.1	3330.9	1797.3	1635.6	1747.4	1948.2	1938.4	1776.7	1662.7	1622.6	1612.8
57.5°	7268.5	3481.8	1721.3	1521.6	1662.7	1889.6	1859.2	1738.7	1628.0	1597.6	1594.4
60°	7954.4	3704.3	1611.7	1400.1	1559.6	1799.5	1793.0	1683.4	1572.7	1550.9	1546.6
62.5°	8983.3	4072.2	1460.9	1278.5	1444.6	1646.5	1706.1	1608.5	1514.0	1513.0	1515.1
65°	10578.8	4625.7	1297.0	1172.2	1328.5	1517.3	1605.2	1531.4	1454.4	1476.1	1479.3
67.5°	12428.2	5084.8	1136.3	1068.0	1210.1	1394.7	1514.0	1454.4	1375.1	1431.6	1432.6
70°	13043.6	4674.5	995.3	964.9	1087.5	1276.4	1415.3	1369.7	1289.4	1345.8	1340.4
72°	12138.4	3773.7	904.1	886.7	995.3	1178.7	1327.4	1290.5	1211.2	1249.2	1235.1
72.5°	11853.0	3597.9	881.3	867.2	970.3	1153.7	1304.6	1270.9	1191.7	1224.3	1211.2
75°	10573.3	3124.7	757.6	760.8	846.6	1032.2	1176.5	1165.7	1084.3	1087.5	1083.2
77.5°	7669.0	2291.1	638.2	659.9	720.7	907.3	1047.3	1040.8	951.8	935.6	932.3
80°	3558.8	1168.9	519.9	529.6	592.6	758.6	893.2	884.5	812.9	792.3	780.4
82.5°	1218.8	555.7	390.7	397.2	459.1	611.0	774.9	769.5	709.8	669.7	644.7
85°	435.2	276.8	273.5	267.0	327.8	480.8	675.1	645.8	557.9	475.4	473.2
87.5°	141.1	118.3	141.1	140.0	191.0	325.6	490.6	417.9	404.8	336.5	329.9
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)