

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: P318839

Luminaire Tested: **GAN-SA5B-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21123 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

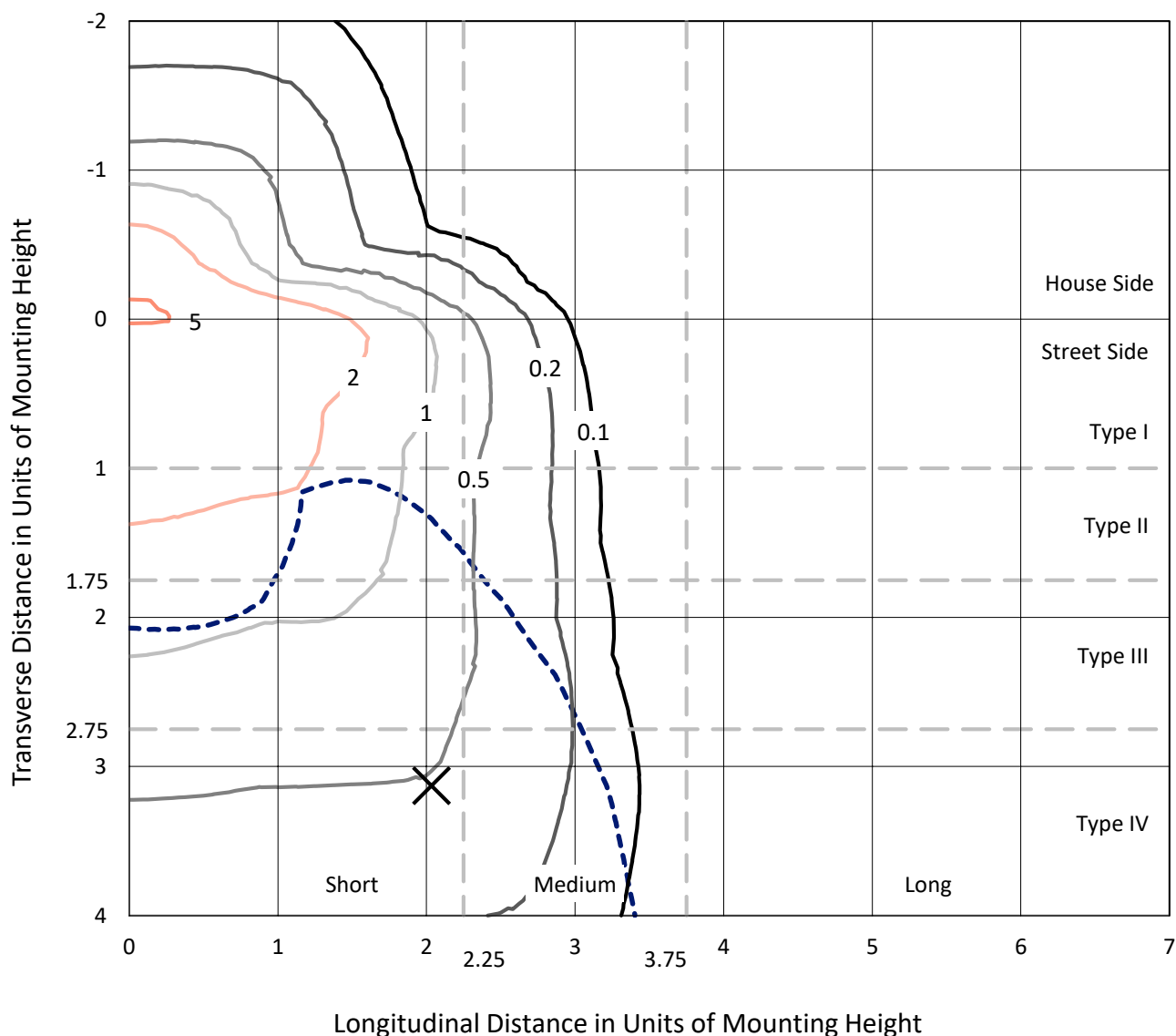
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

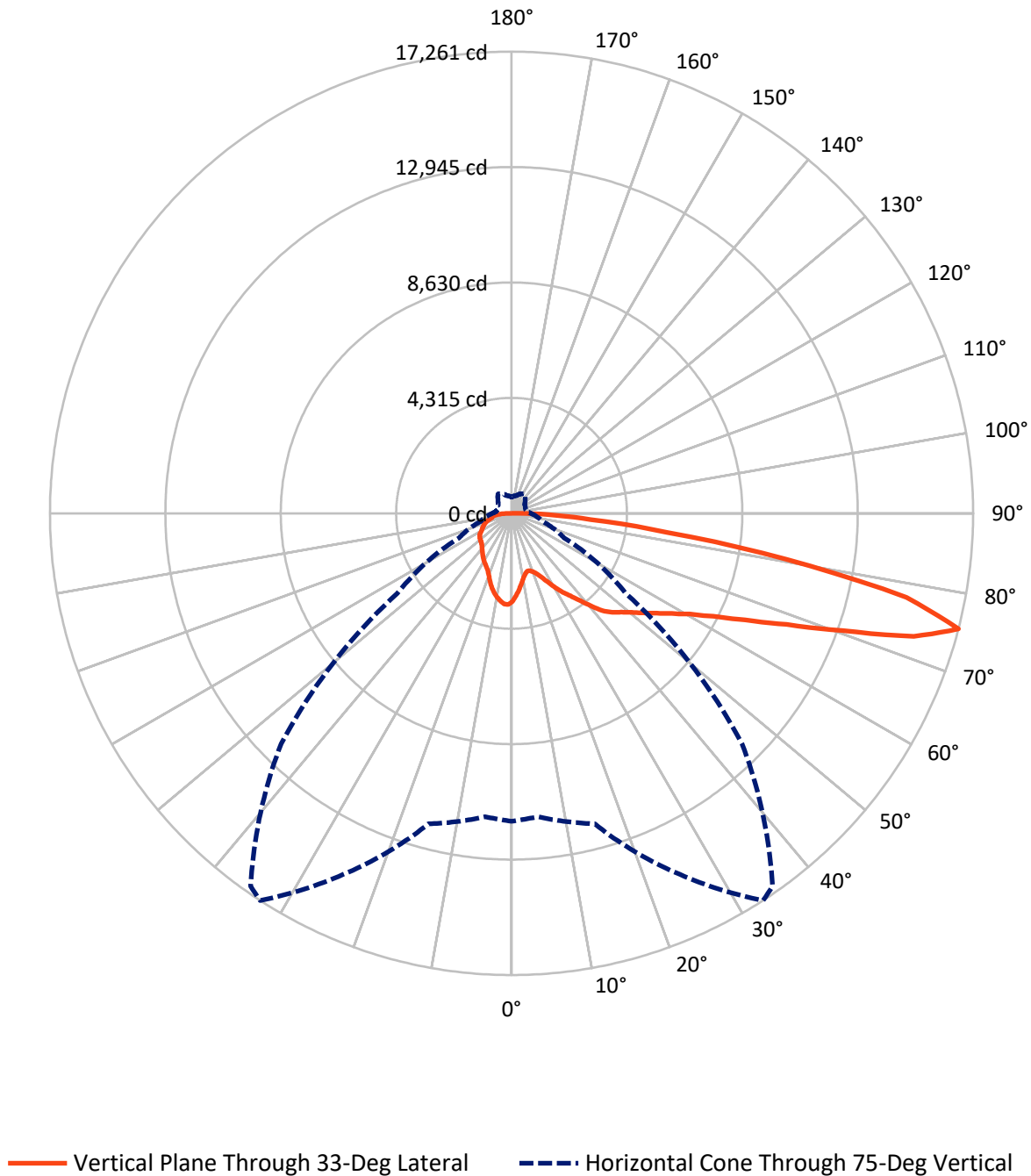
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	4535.7	0.0	4535.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	16587.3	0.0	16587.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	21123.0	0.0	21123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.6	1.4
10°-20°	808.7	3.8
20°-30°	1320.8	6.3
30°-40°	1966.9	9.3
40°-50°	2821.1	13.4
50°-60°	3872.9	18.3
60°-70°	4848.7	23.0
70°-80°	4386.4	20.8
80°-90°	799.0	3.8
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°	21123.0	100.0
0°-180°	21123.0	100.0

Coefficient of Utilization



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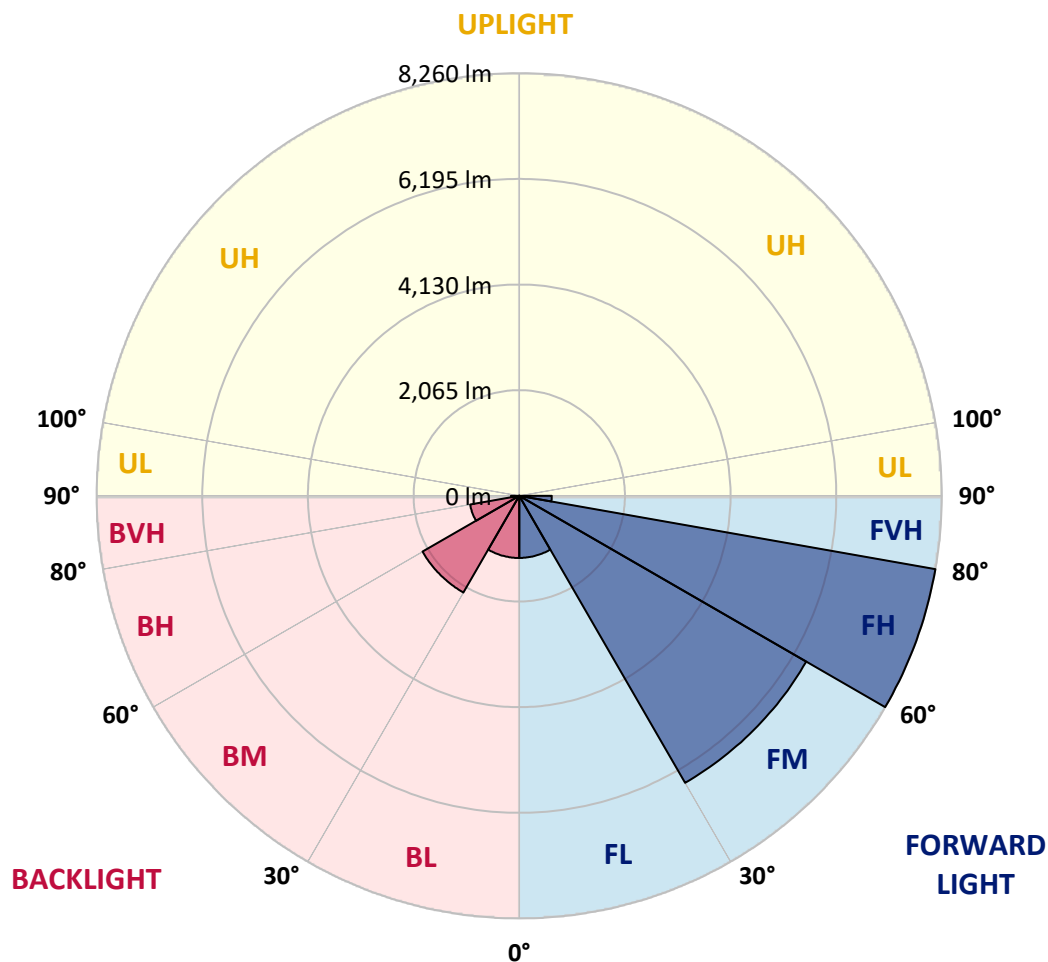
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1213.2	5.7			
FM	(30°-60°)	6478.0	30.7			
FH	(60°-80°)	8259.8	39.1			G4/12000
FVH	(80°-90°)	636.3	3.0			G4/750
BL	(0°-30°)	1214.9	5.8	B3/2500		
BM	(30°-60°)	2182.9	10.3	B2/2500		
BH	(60°-80°)	975.2	4.6	B2/1000		G2/1000
BVH	(80°-90°)	162.7	0.8			G2/225
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°	33°	35°	45°	55°	65°	75°	85°
0°	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6
2.5°	3066.0	3054.3	3076.2	3079.1	3098.1	3105.4	3131.6	3172.5	3206.1	3244.7	3279.8
5°	2788.0	2779.9	2810.6	2832.5	2874.1	2891.6	2953.6	3040.4	3117.8	3205.3	3284.9
7.5°	2523.8	2519.5	2553.8	2603.4	2651.5	2675.6	2782.9	2909.1	3038.2	3179.8	3301.6
10°	2301.3	2299.8	2332.7	2381.6	2452.3	2479.3	2618.0	2784.3	2965.3	3160.1	3330.1
12.5°	2176.5	2181.6	2197.0	2237.8	2303.5	2330.5	2484.4	2680.0	2904.0	3153.5	3371.7
15°	2207.2	2215.2	2188.9	2187.5	2234.2	2255.3	2399.8	2605.6	2860.2	3164.5	3432.2
17.5°	2337.8	2339.2	2269.9	2226.1	2254.6	2265.5	2373.5	2563.2	2834.7	3189.3	3508.1
20°	2521.7	2518.0	2395.4	2322.5	2337.8	2340.7	2410.7	2564.0	2832.5	3232.3	3606.6
22.5°	2765.4	2738.4	2573.5	2474.2	2470.6	2466.2	2506.3	2618.0	2864.6	3302.4	3724.1
25°	3083.5	3057.9	2831.0	2695.3	2666.1	2655.2	2661.0	2733.2	2928.1	3377.5	3855.4
27.5°	3437.4	3392.8	3174.0	2982.1	2921.5	2906.2	2871.2	2896.0	2997.4	3449.8	4011.6
30°	3733.6	3709.5	3518.3	3290.7	3219.2	3197.3	3105.4	3078.4	3097.3	3548.3	4208.6
32.5°	3899.2	3883.2	3767.2	3583.3	3516.9	3486.2	3356.4	3302.4	3257.9	3703.7	4475.6
35°	4099.9	4089.7	4019.6	3886.1	3787.6	3755.5	3654.8	3598.6	3484.1	3917.5	4820.8
37.5°	4355.3	4344.3	4345.8	4237.8	4120.3	4090.4	4024.0	3964.9	3777.4	4198.4	5195.8
40°	4644.2	4623.0	4615.0	4609.9	4535.5	4518.7	4483.7	4403.4	4145.1	4534.0	5565.7
42.5°	5079.1	5003.9	4843.4	4903.9	4977.6	4968.9	4997.3	4882.1	4553.7	4930.9	5926.9
45°	5498.6	5375.3	5098.0	5111.2	5272.4	5321.3	5534.4	5452.6	4996.6	5365.8	6300.5
47.5°	5689.8	5596.4	5360.7	5361.4	5521.2	5622.6	6089.6	6031.2	5462.1	5859.8	6756.5
50°	5903.6	5810.2	5598.6	5678.1	5817.5	5925.4	6625.9	6596.0	5905.0	6400.4	7303.0
52.5°	6137.0	5978.7	5844.5	5986.7	6182.3	6307.8	7162.9	7081.2	6311.4	6944.8	7931.2
55°	6140.0	6096.9	6199.1	6303.4	6596.0	6749.9	7725.5	7509.5	6642.7	7479.6	8442.7
57.5°	6489.5	6419.4	6636.1	6684.3	7066.6	7240.3	8285.1	7882.4	6979.8	7889.7	8718.5
60°	6952.1	6892.2	7069.5	7196.5	7648.9	7880.9	8882.7	8265.4	7244.6	8199.0	8705.4
62.5°	7751.0	7683.2	7681.0	7859.0	8468.3	8738.2	9553.2	8641.2	7349.7	8260.3	8334.0
65°	8920.6	8812.7	8609.1	8693.7	9599.9	9869.2	10302.6	8913.3	7211.1	7932.0	7377.4
67.5°	10058.9	10055.2	9805.0	9978.6	11094.3	11310.2	11156.3	8940.3	6778.4	6788.6	5680.3
70°	11193.5	11208.1	11165.8	11769.9	13113.2	13337.9	12065.4	8577.7	5805.8	4902.5	3403.1
72.5°	12092.4	12088.8	12301.8	13859.6	15733.3	15683.0	12831.5	7478.9	4168.5	2646.4	1626.4
75°	11510.1	11383.2	12018.0	14894.2	17260.5	17014.6	12180.0	5217.0	2163.4	1204.6	875.6
77.5°	7507.3	7627.7	8559.5	12304.0	15097.8	14798.7	8936.0	2434.1	1019.3	790.2	634.8
80°	2718.7	2845.6	4007.9	6969.6	10401.8	10352.9	4400.5	1000.3	689.5	596.8	462.6
82.5°	935.4	982.1	1581.1	3095.2	5872.9	6091.8	1655.6	568.4	501.3	423.2	316.7
85°	367.0	420.3	723.1	1489.2	2962.4	2984.2	670.5	340.0	348.8	277.3	173.7
87.5°	139.4	169.3	345.9	691.7	1352.8	1242.6	240.1	162.0	198.5	164.9	82.4
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°	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6
2.5°	3306.8	3322.1	3354.2	3376.1	3399.4	3406.0	3408.9	3414.7	3420.6	3418.4	3419.1
5°	3327.2	3357.1	3408.9	3430.8	3441.0	3429.3	3406.7	3388.5	3375.3	3368.0	3365.9
7.5°	3360.7	3403.1	3458.5	3454.9	3431.5	3379.7	3321.3	3277.6	3241.1	3227.9	3220.7
10°	3405.3	3454.9	3493.5	3452.0	3384.1	3294.3	3206.8	3138.9	3084.2	3063.0	3059.4
12.5°	3462.2	3512.5	3519.8	3431.5	3319.2	3196.6	3077.6	2987.9	2906.2	2879.9	2874.1
15°	3535.9	3583.3	3538.0	3395.8	3238.9	3074.0	2920.0	2798.2	2712.1	2680.0	2668.3
17.5°	3613.2	3658.4	3541.7	3336.7	3133.8	2928.8	2735.4	2610.7	2512.2	2475.0	2470.6
20°	3705.9	3726.3	3526.4	3252.0	2989.4	2740.5	2537.0	2419.5	2367.0	2340.7	2337.8
22.5°	3820.4	3798.5	3491.4	3137.5	2806.2	2523.1	2357.5	2302.8	2289.6	2283.8	2286.0
25°	3941.5	3874.4	3439.5	2987.9	2574.9	2305.7	2226.1	2241.5	2259.0	2256.8	2256.8
27.5°	4075.1	3951.8	3360.0	2789.4	2318.8	2127.6	2137.1	2193.3	2219.6	2218.9	2218.1
30°	4246.5	4039.3	3258.6	2550.8	2079.5	2002.1	2059.8	2128.4	2164.1	2162.7	2163.4
32.5°	4457.4	4135.6	3120.7	2284.5	1906.6	1909.5	1975.9	2043.7	2085.3	2081.7	2082.4
35°	4704.0	4243.6	2933.9	2021.8	1792.0	1835.8	1888.3	1935.7	1975.1	1970.0	1964.9
37.5°	4972.5	4349.4	2685.8	1786.9	1698.6	1767.2	1811.0	1819.0	1837.2	1824.1	1814.6
40°	5227.9	4430.4	2366.2	1594.3	1604.5	1708.8	1737.3	1705.2	1672.3	1668.0	1654.8
42.5°	5450.4	4457.4	2043.0	1440.3	1505.3	1647.5	1665.0	1597.9	1538.8	1511.1	1499.4
45°	5685.4	4466.9	1741.7	1311.2	1409.7	1592.8	1611.8	1522.0	1438.9	1379.0	1359.3
47.5°	5992.6	4535.5	1507.4	1215.6	1336.7	1556.3	1583.3	1461.5	1353.5	1268.1	1249.9
50°	6394.6	4671.2	1317.0	1142.6	1289.3	1532.3	1562.9	1402.4	1283.4	1180.6	1162.3
52.5°	6841.2	4796.0	1163.1	1083.5	1243.3	1489.9	1536.6	1360.1	1217.8	1099.6	1079.9
55°	7153.4	4700.4	1039.0	1022.2	1183.5	1429.4	1500.1	1324.3	1123.7	1020.8	1003.3
57.5°	7213.3	4373.5	944.9	958.8	1111.2	1353.5	1444.0	1244.8	1072.6	986.5	968.2
60°	7049.8	3918.2	874.8	900.4	1033.9	1257.9	1338.9	1188.6	1023.7	950.0	934.7
62.5°	6639.0	3452.0	823.0	847.8	961.7	1160.9	1273.2	1129.5	974.1	908.4	893.1
65°	5809.4	2898.1	773.4	801.2	894.5	1077.0	1214.1	1074.8	925.2	874.8	860.3
67.5°	4385.2	2170.7	726.7	751.5	834.7	1004.0	1149.9	1020.8	877.8	845.7	828.1
70°	2582.2	1359.3	673.5	699.7	772.0	928.1	1081.3	961.7	818.7	804.1	781.4
72.5°	1201.7	817.9	612.9	638.4	693.2	826.7	993.0	884.3	748.6	716.5	685.9
75°	717.2	598.3	541.4	564.0	602.7	718.7	882.1	805.5	682.2	639.9	607.8
77.5°	536.3	457.5	462.6	486.7	518.0	629.0	781.4	743.5	631.1	598.3	576.4
80°	386.0	347.3	377.2	403.5	436.3	572.0	748.6	687.3	570.6	526.8	506.4
82.5°	257.6	249.5	283.8	310.8	342.9	500.5	703.4	602.0	487.4	431.9	386.7
85°	142.3	150.3	191.2	202.8	230.6	352.4	576.4	483.8	367.0	295.5	282.4
87.5°	59.1	69.3	102.9	99.2	122.6	210.1	379.4	291.9	233.5	174.4	135.7
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)