

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: P322711

Luminaire Tested: **GAN-SA7A-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18602 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

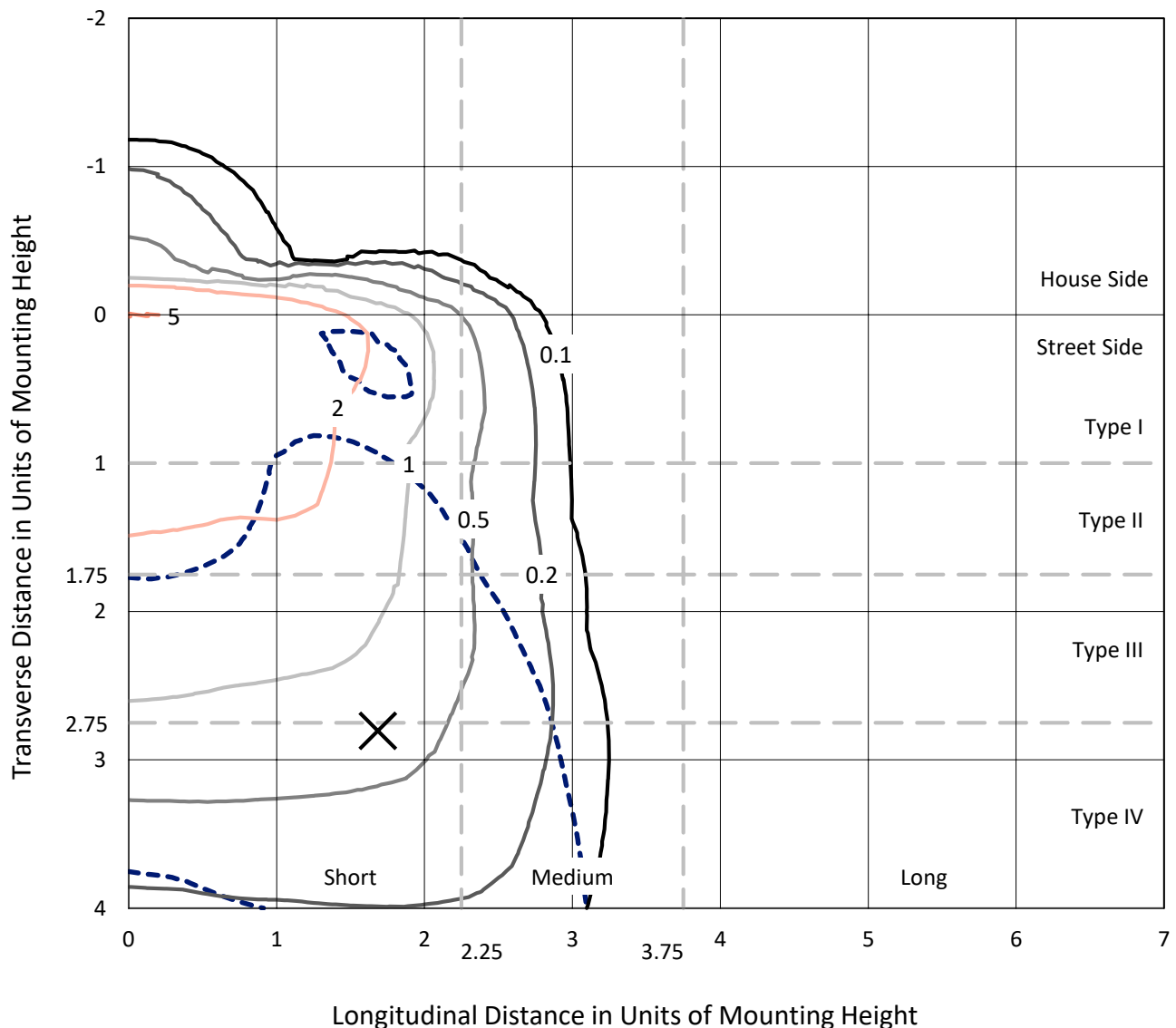
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

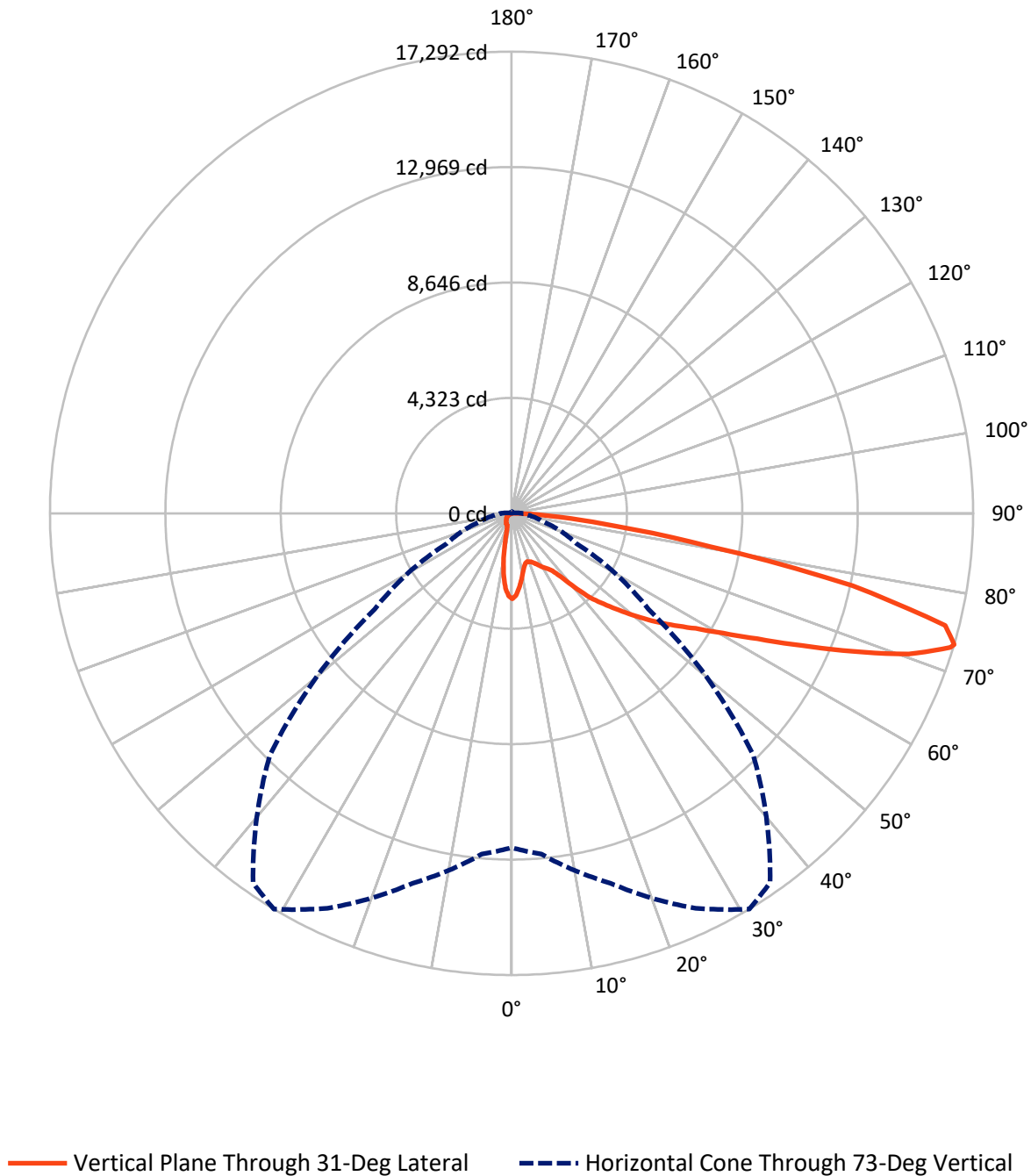
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	1695.6	0.0	1695.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	16906.4	0.0	16906.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	18602.0	0.0	18602.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	1.4
10°-20°	576.2	3.1
20°-30°	863.3	4.6
30°-40°	1373.5	7.4
40°-50°	2452.7	13.2
50°-60°	3805.9	20.5
60°-70°	5059.4	27.2
70°-80°	3805.7	20.5
80°-90°	399.9	2.1
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°	18602.0	100.0
0°-180°	18602.0	100.0

Coefficient of Utilization



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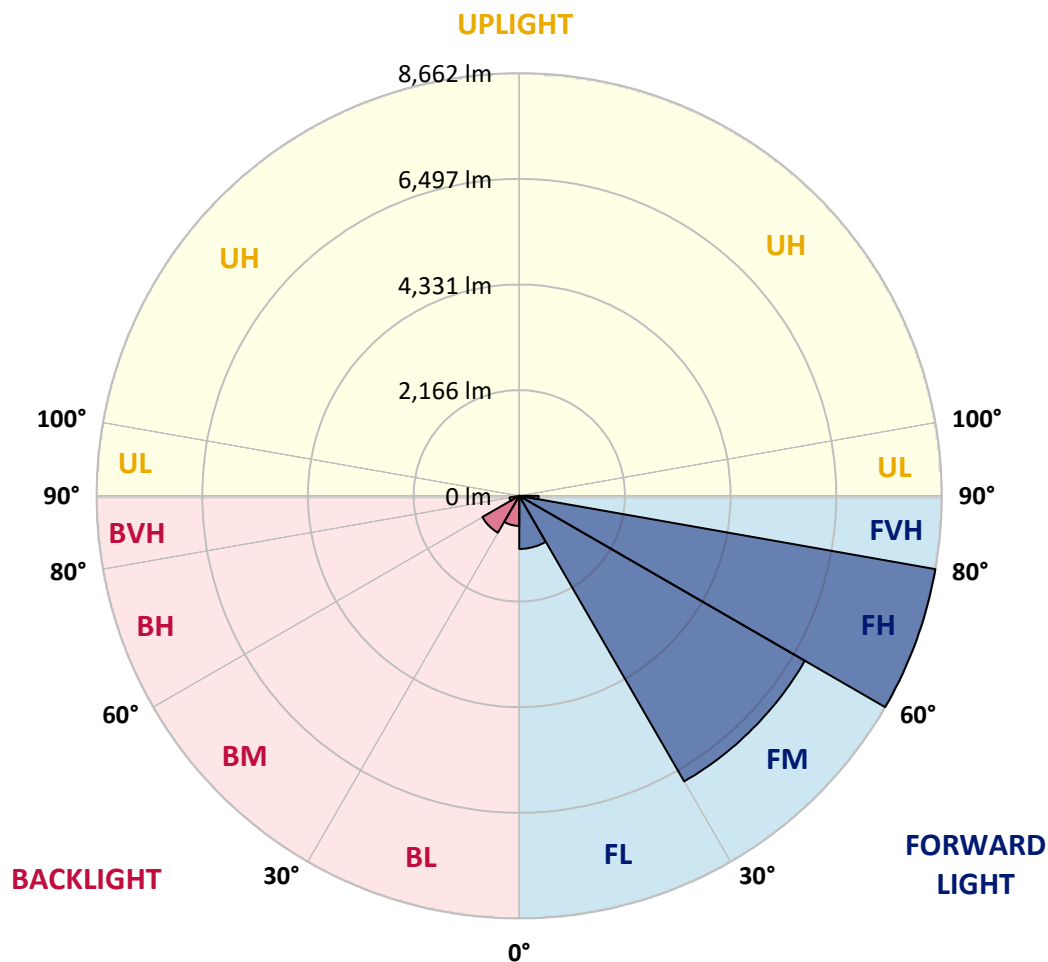
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1088.2	5.9			
FM	(30°-60°)	6759.3	36.3			
FH	(60°-80°)	8662.3	46.6			G4/12000
FVH	(80°-90°)	396.5	2.1			G3/500
BL	(0°-30°)	616.6	3.3	B2/1000		
BM	(30°-60°)	872.8	4.7	B1/1000		
BH	(60°-80°)	202.9	1.1	B1/500		G1/500
BVH	(80°-90°)	3.4	0.0			G0/10
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°	31°	35°	45°	55°	65°	75°	85°
0°	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5
2.5°	3033.0	3045.8	3059.4	3062.2	3084.9	3085.8	3118.6	3143.2	3167.7	3191.4	3199.6
5°	2721.7	2742.6	2767.2	2791.8	2840.0	2859.2	2939.3	3021.2	3099.5	3174.1	3210.5
7.5°	2389.5	2413.1	2447.7	2508.7	2562.4	2599.7	2726.3	2871.9	3017.5	3155.0	3234.2
10°	2086.3	2108.2	2144.6	2209.2	2292.1	2343.0	2513.3	2715.3	2929.3	3137.7	3269.7
12.5°	1893.4	1905.2	1925.2	1994.4	2069.0	2126.4	2326.7	2577.0	2856.4	3136.8	3327.0
15°	1857.9	1861.5	1845.1	1876.1	1934.3	1989.9	2192.8	2465.0	2800.9	3151.4	3401.7
17.5°	1914.3	1912.5	1857.9	1854.2	1900.6	1946.2	2127.3	2387.6	2761.8	3185.0	3498.2
20°	1999.9	1993.5	1898.8	1881.5	1930.7	1973.5	2122.8	2358.5	2747.2	3241.5	3615.6
22.5°	2113.6	2102.7	1954.4	1936.1	1988.9	2033.5	2179.2	2386.7	2759.9	3317.0	3752.1
25°	2254.7	2238.4	2049.9	2029.9	2083.6	2128.2	2280.2	2467.7	2798.2	3409.0	3925.1
27.5°	2414.0	2390.4	2202.9	2151.0	2212.0	2258.4	2414.9	2591.5	2858.3	3506.4	4137.2
30°	2564.2	2533.3	2364.0	2278.4	2353.1	2404.9	2560.6	2739.0	2954.7	3656.6	4427.6
32.5°	2715.3	2680.7	2507.8	2405.8	2473.2	2529.6	2710.8	2942.0	3135.9	3885.9	4813.5
35°	3063.1	3026.7	2814.6	2646.2	2645.2	2677.1	2921.1	3219.6	3375.3	4205.5	5274.1
37.5°	3648.4	3627.4	3425.3	3105.8	3020.3	2984.8	3207.8	3551.0	3719.4	4645.1	5793.9
40°	4289.2	4271.0	4044.3	3754.9	3624.7	3537.3	3619.2	4012.5	4205.5	5182.2	6324.6
42.5°	5012.9	4926.4	4522.2	4435.7	4319.2	4252.8	4179.1	4581.4	4802.6	5766.6	6850.7
45°	5670.1	5524.4	5000.1	4869.0	4842.6	4859.0	4900.0	5346.0	5474.4	6461.1	7375.0
47.5°	6061.5	5946.8	5544.5	5418.8	5411.6	5519.9	5829.4	6209.9	6143.4	7066.4	7836.5
50°	6433.8	6330.0	5996.0	6026.9	6060.6	6208.0	6884.4	7098.3	6754.2	7615.3	8259.8
52.5°	6735.1	6576.7	6401.9	6575.8	6741.5	6979.0	7973.1	7895.7	7187.5	8052.3	8622.1
55°	6909.0	6837.0	6921.7	7096.5	7407.8	7793.7	9000.8	8559.3	7504.3	8451.0	8863.3
57.5°	7546.1	7405.1	7573.5	7724.6	8130.5	8670.3	9881.0	9053.6	7732.8	8697.6	8918.8
60°	8317.1	8203.4	8302.6	8553.8	9101.8	9736.3	10703.9	9456.8	7852.0	8856.0	8775.0
62.5°	9544.2	9394.0	9332.1	9613.4	10339.8	11032.5	11328.3	9736.3	7825.6	8785.9	8281.6
65°	11188.1	11032.5	10755.8	11010.6	11934.6	12423.4	12026.5	9795.4	7643.5	8218.8	7034.6
67.5°	12872.1	12759.3	12522.6	12952.2	13786.1	13943.5	12764.7	9651.6	7057.3	6664.1	4970.1
70°	13984.5	13936.2	14090.1	15040.4	15784.1	15738.6	13442.0	8878.8	5500.8	4098.0	2458.6
72.5°	13182.5	13413.8	14549.8	16272.9	17181.4	16810.0	13094.2	6817.9	3144.1	1576.6	710.9
73°	12518.0	12813.9	14343.1	16319.3	17291.5	16884.6	12802.0	6258.1	2679.8	1244.3	538.9
75°	8708.6	9071.8	11874.5	15198.8	16776.3	16087.2	10671.1	3830.4	1241.6	551.6	217.6
77.5°	4228.2	4496.7	6538.5	10981.5	13046.9	12569.0	6643.2	1427.3	560.7	345.0	100.1
80°	1578.4	1755.0	2838.2	5589.1	7539.8	7737.3	2922.0	539.8	373.2	277.6	51.0
82.5°	413.3	460.6	1046.8	2492.3	3864.1	4044.3	921.2	272.2	273.1	228.5	30.9
85°	132.0	151.1	326.8	1118.7	1820.5	1598.4	240.3	132.0	198.4	170.2	17.3
87.5°	16.4	20.9	103.8	263.1	401.4	223.0	37.3	39.1	84.7	94.7	10.0
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°	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5
2.5°	3207.8	3203.2	3204.2	3180.5	3165.0	3134.1	3102.2	3087.6	3072.2	3065.8	3072.2
5°	3224.2	3216.0	3192.3	3119.5	3042.1	2942.0	2848.2	2777.2	2688.0	2663.5	2688.9
7.5°	3249.7	3233.3	3164.1	3015.7	2843.7	2652.5	2437.7	2281.1	2152.8	2070.0	2100.0
10°	3287.0	3256.0	3116.8	2864.6	2557.0	2218.3	1913.4	1675.8	1507.4	1438.2	1435.5
12.5°	3349.8	3291.5	3058.5	2668.0	2206.5	1755.0	1355.4	1097.8	961.2	872.9	871.1
15°	3419.0	3333.4	2984.8	2432.2	1798.7	1257.1	872.9	677.2	588.9	560.7	557.1
17.5°	3503.6	3381.7	2889.2	2141.9	1371.8	832.9	569.8	513.4	509.8	507.0	507.0
20°	3610.1	3439.0	2766.3	1809.6	973.1	556.2	484.3	487.9	489.7	486.1	487.0
22.5°	3733.9	3497.3	2619.8	1452.8	658.1	465.1	463.3	467.9	469.7	467.9	468.8
25°	3877.8	3564.6	2441.3	1078.7	475.2	441.5	446.0	452.4	457.0	457.0	457.0
27.5°	4056.2	3646.5	2226.5	752.8	410.5	416.9	429.6	441.5	447.9	449.7	449.7
30°	4288.3	3748.5	1968.9	516.1	373.2	384.1	407.8	430.6	442.4	444.2	445.1
32.5°	4581.4	3863.2	1670.3	381.4	341.4	349.5	375.0	413.3	436.0	439.7	439.7
35°	4917.3	3996.1	1349.0	332.2	318.6	321.3	341.4	385.0	425.1	435.1	436.0
37.5°	5285.0	4127.2	1025.9	310.4	299.5	299.5	314.0	351.4	398.7	429.6	433.3
40°	5628.2	4206.4	719.1	293.1	282.2	282.2	294.9	322.2	366.8	413.3	423.3
42.5°	5945.0	4233.7	500.6	276.7	265.8	268.5	279.5	301.3	335.0	381.4	390.5
45°	6270.9	4229.1	365.0	257.6	249.4	257.6	265.8	282.2	306.8	333.2	335.0
47.5°	6516.6	4190.9	289.5	239.4	233.9	244.9	252.1	263.1	276.7	274.9	274.9
50°	6746.9	4098.0	233.0	214.8	218.5	231.2	234.8	238.5	239.4	222.1	220.3
52.5°	6921.7	3953.3	186.6	188.4	203.0	215.7	212.1	206.6	197.5	176.6	173.0
55°	6980.0	3674.8	146.6	155.7	180.2	196.6	183.0	171.1	153.8	136.5	132.9
57.5°	6874.4	3315.2	119.2	121.1	152.0	165.7	150.2	136.5	117.4	102.9	100.1
60°	6650.4	2915.6	98.3	91.0	117.4	129.3	119.2	105.6	88.3	77.4	76.5
62.5°	6206.2	2489.6	81.0	71.0	89.2	99.2	92.8	82.8	68.3	61.0	60.1
65°	5272.3	1991.7	65.5	57.3	69.2	77.4	71.9	64.6	53.7	48.2	47.3
67.5°	3680.2	1346.3	53.7	47.3	54.6	61.0	56.4	52.8	42.8	41.9	42.8
70°	1775.0	649.0	44.6	38.2	42.8	47.3	45.5	42.8	41.0	47.3	54.6
72.5°	508.8	217.6	35.5	31.9	34.6	37.3	39.1	38.2	44.6	57.3	66.4
73°	391.4	175.7	33.7	30.0	32.8	36.4	38.2	37.3	45.5	58.3	66.4
75°	167.5	84.7	25.5	24.6	27.3	31.9	33.7	33.7	45.5	59.2	63.7
77.5°	75.6	45.5	16.4	19.1	23.7	25.5	28.2	28.2	36.4	45.5	45.5
80°	42.8	24.6	12.7	14.6	17.3	17.3	17.3	15.5	16.4	18.2	20.0
82.5°	27.3	16.4	10.0	11.8	10.9	9.1	7.3	7.3	6.4	7.3	9.1
85°	15.5	9.1	9.1	7.3	4.6	3.6	4.6	3.6	0.9	0.0	0.9
87.5°	9.1	5.5	2.7	0.0	0.0	0.0	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)