

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: P322720

Luminaire Tested: **GAN-SA6B-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322720
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-SA6B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 19288 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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

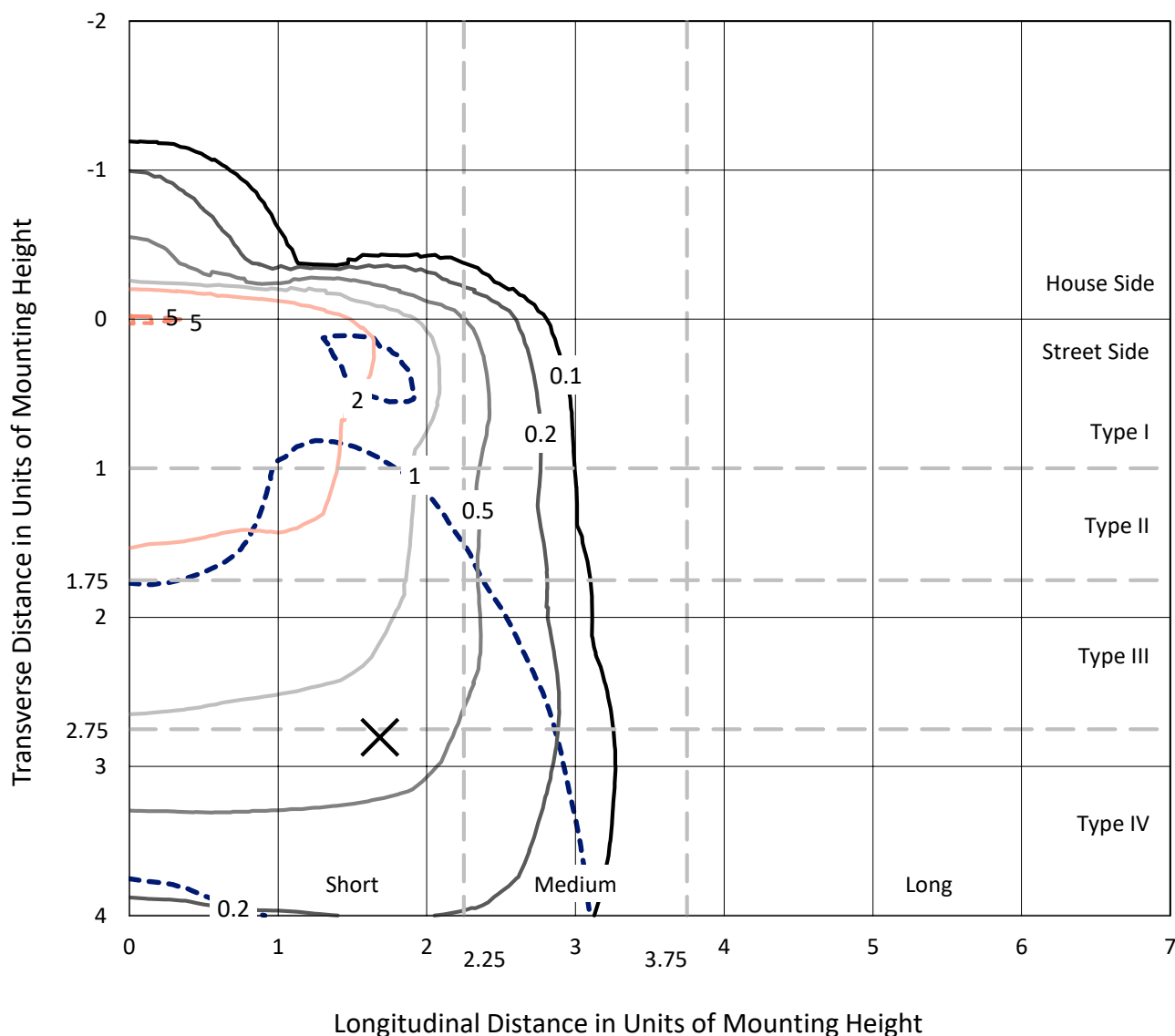


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

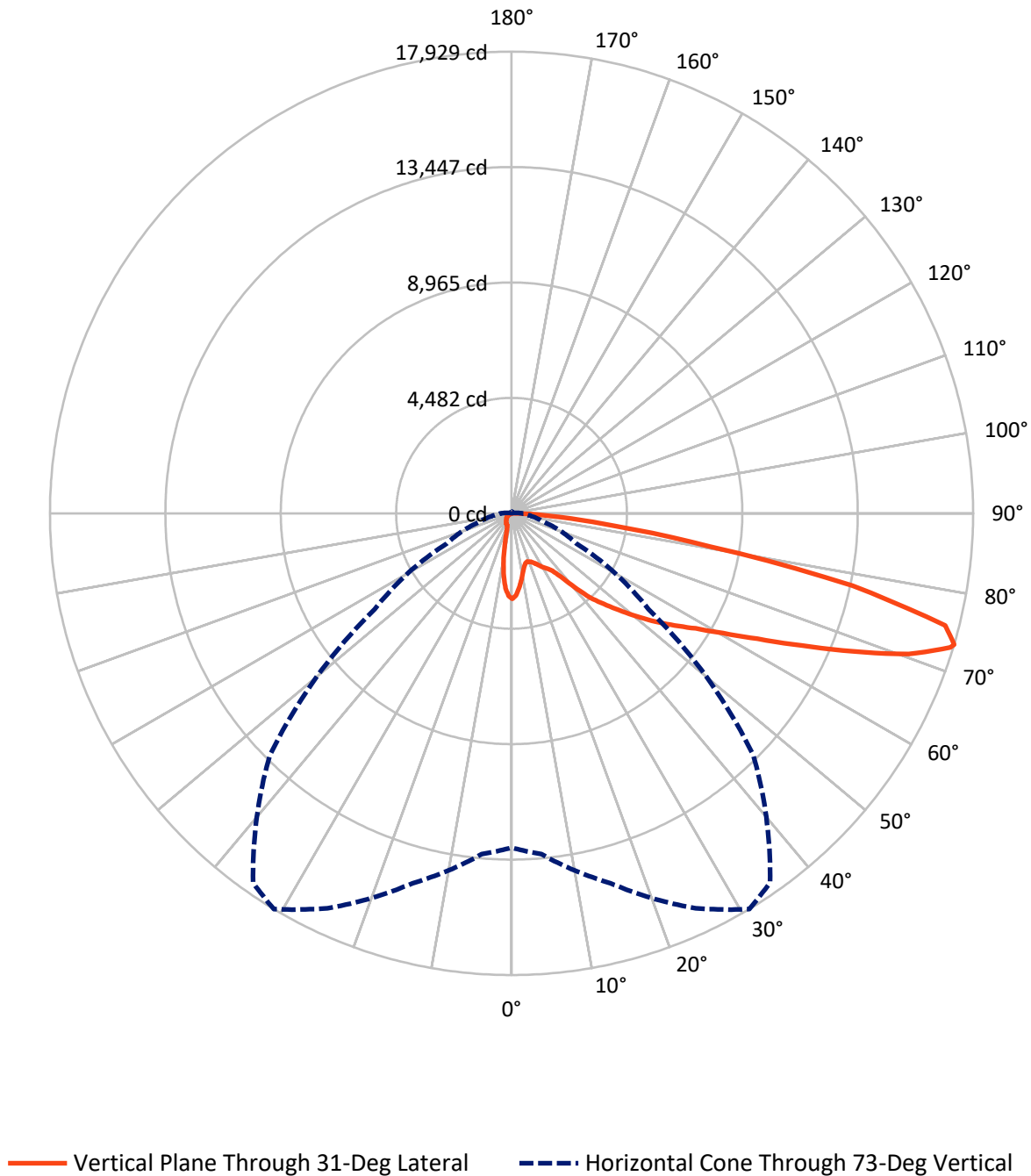
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	1758.2	0.0	1758.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	17529.8	0.0	17529.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	19288.0	0.0	19288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.2	1.4
10°-20°	597.4	3.1
20°-30°	895.1	4.6
30°-40°	1424.2	7.4
40°-50°	2543.2	13.2
50°-60°	3946.3	20.5
60°-70°	5246.0	27.2
70°-80°	3946.1	20.5
80°-90°	414.7	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°	19288.0	100.0
0°-180°	19288.0	100.0

Coefficient of Utilization



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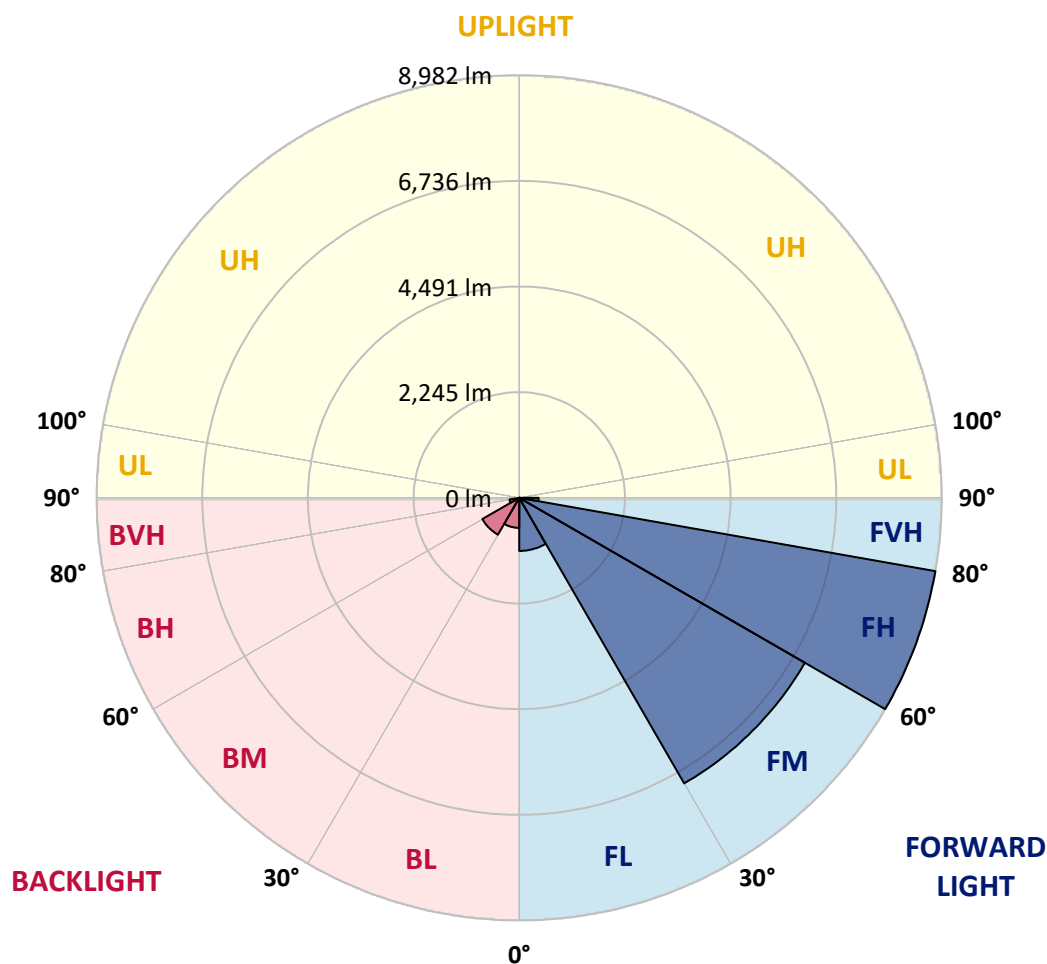
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1128.4	5.9			
FM	(30°-60°)	7008.6	36.3			
FH	(60°-80°)	8981.7	46.6			G4/12000
FVH	(80°-90°)	411.2	2.1			G3/500
BL	(0°-30°)	639.3	3.3	B2/1000		
BM	(30°-60°)	905.0	4.7	B1/1000		
BH	(60°-80°)	210.4	1.1	B1/500		G1/500
BVH	(80°-90°)	3.5	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°	3318.5	3318.5	3318.5	3318.5	3318.5	3318.5	3318.5	3318.5	3318.5	3318.5	3318.5
2.5°	3144.9	3158.1	3172.2	3175.1	3198.7	3199.6	3233.6	3259.1	3284.6	3309.1	3317.6
5°	2822.1	2843.8	2869.3	2894.8	2944.8	2964.6	3047.7	3132.6	3213.8	3291.2	3328.9
7.5°	2477.6	2502.1	2538.0	2601.2	2656.9	2695.6	2826.8	2977.8	3128.8	3271.3	3353.5
10°	2163.3	2185.9	2223.7	2290.7	2376.6	2429.4	2605.9	2815.5	3037.3	3253.4	3390.3
12.5°	1963.2	1975.5	1996.2	2068.0	2145.3	2204.8	2412.5	2672.0	2961.8	3252.5	3449.7
15°	1926.4	1930.2	1913.2	1945.3	2005.7	2063.2	2273.7	2555.9	2904.2	3267.6	3527.1
17.5°	1984.9	1983.0	1926.4	1922.6	1970.7	2017.9	2205.8	2475.7	2863.6	3302.5	3627.2
20°	2073.6	2067.0	1968.8	1950.9	2001.9	2046.2	2201.0	2445.5	2848.5	3361.0	3748.9
22.5°	2191.6	2180.3	2026.4	2007.5	2062.3	2108.5	2259.6	2474.7	2861.7	3439.4	3890.5
25°	2337.9	2320.9	2125.5	2104.8	2160.4	2206.7	2364.3	2558.7	2901.4	3534.7	4069.8
27.5°	2503.1	2478.5	2284.1	2230.3	2293.5	2341.7	2504.0	2687.1	2963.7	3635.7	4289.8
30°	2658.8	2626.7	2451.2	2362.4	2439.8	2493.6	2655.0	2840.0	3063.7	3791.4	4590.8
32.5°	2815.5	2779.6	2600.3	2494.6	2564.4	2622.9	2810.8	3050.5	3251.5	4029.3	4991.0
35°	3176.0	3138.3	2918.4	2743.7	2742.8	2775.8	3028.8	3338.4	3499.8	4360.5	5468.6
37.5°	3782.9	3761.2	3551.7	3220.4	3131.7	3094.8	3326.1	3681.9	3856.5	4816.4	6007.5
40°	4447.4	4428.5	4193.5	3893.3	3758.4	3667.8	3752.7	4160.4	4360.5	5373.3	6557.8
42.5°	5197.7	5108.1	4689.0	4599.3	4478.5	4409.6	4333.2	4750.3	4979.7	5979.2	7103.3
45°	5879.2	5728.2	5184.5	5048.6	5021.2	5038.2	5080.7	5543.2	5676.3	6699.4	7647.0
47.5°	6285.0	6166.1	5748.9	5618.7	5611.1	5723.4	6044.3	6438.9	6370.0	7327.0	8125.5
50°	6671.1	6563.5	6217.1	6249.2	6284.1	6437.0	7138.3	7360.1	7003.3	7896.2	8564.4
52.5°	6983.5	6819.2	6638.0	6818.3	6990.1	7236.4	8267.1	8186.9	7452.6	8349.2	8940.0
55°	7163.7	7089.2	7177.0	7358.2	7681.0	8081.2	9332.7	8874.9	7781.0	8762.6	9190.2
57.5°	7824.4	7678.1	7852.7	8009.4	8430.4	8990.1	10245.4	9387.4	8017.9	9018.4	9247.7
60°	8623.9	8505.9	8608.8	8869.3	9437.5	10095.3	11098.6	9805.5	8141.6	9182.6	9098.6
62.5°	9896.2	9740.4	9676.2	9967.9	10721.1	11439.3	11746.1	10095.3	8114.2	9109.9	8587.1
65°	11600.7	11439.3	11152.4	11416.7	12374.7	12881.5	12470.0	10156.7	7925.4	8521.9	7294.0
67.5°	13346.8	13229.8	12984.4	13429.9	14294.5	14457.7	13235.5	10007.5	7317.6	6909.8	5153.4
70°	14500.2	14450.2	14609.7	15595.1	16366.2	16319.0	13937.7	9206.2	5703.6	4249.2	2549.3
72.5°	13668.7	13908.4	15086.3	16873.0	17815.0	17429.9	13577.1	7069.4	3260.0	1634.7	737.1
73°	12979.7	13286.4	14872.1	16921.2	17929.2	17507.3	13274.2	6488.9	2778.7	1290.2	558.8
75°	9029.7	9406.3	12312.4	15759.3	17395.0	16680.5	11064.6	3971.7	1287.4	572.0	225.6
77.5°	4384.1	4662.6	6779.6	11386.5	13528.1	13032.5	6888.1	1479.9	581.4	357.7	103.8
80°	1636.6	1819.7	2942.9	5795.2	7817.8	8022.6	3029.7	559.7	387.0	287.9	52.9
82.5°	428.5	477.6	1085.4	2584.2	4006.6	4193.5	955.2	282.2	283.2	236.9	32.1
85°	136.9	156.7	338.8	1160.0	1887.7	1657.4	249.2	136.9	205.8	176.5	17.9
87.5°	17.0	21.7	107.6	272.8	416.2	231.2	38.7	40.6	87.8	98.2	10.4
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°	3318.5	3318.5	3318.5	3318.5	3318.5	3318.5	3318.5	3318.5	3318.5	3318.5	3318.5
2.5°	3326.1	3321.4	3322.3	3297.8	3281.7	3249.6	3216.6	3201.5	3185.5	3178.9	3185.5
5°	3343.1	3334.6	3310.0	3234.5	3154.3	3050.5	2953.3	2879.7	2787.2	2761.7	2788.1
7.5°	3369.5	3352.5	3280.8	3126.9	2948.6	2750.3	2527.6	2365.3	2232.2	2146.3	2177.4
10°	3408.2	3376.1	3231.7	2970.3	2651.2	2300.1	1984.0	1737.6	1563.0	1491.3	1488.4
12.5°	3473.3	3412.9	3171.3	2766.4	2287.9	1819.7	1405.4	1138.3	996.7	905.1	903.3
15°	3545.1	3456.3	3094.8	2521.9	1865.0	1303.4	905.1	702.2	610.7	581.4	577.6
17.5°	3632.8	3506.4	2995.7	2220.9	1422.4	863.6	590.8	532.3	528.6	525.7	525.7
20°	3743.3	3565.8	2868.3	1876.4	1009.0	576.7	502.1	505.9	507.8	504.0	505.0
22.5°	3871.6	3626.2	2716.4	1506.4	682.4	482.3	480.4	485.1	487.0	485.1	486.1
25°	4020.8	3696.1	2531.4	1118.4	492.7	457.8	462.5	469.1	473.8	473.8	473.8
27.5°	4205.7	3781.0	2308.6	780.6	425.7	432.3	445.5	457.8	464.4	466.3	466.3
30°	4446.4	3886.7	2041.5	535.2	387.0	398.3	422.8	446.4	458.7	460.6	461.5
32.5°	4750.3	4005.7	1731.9	395.5	353.9	362.4	388.9	428.5	452.1	455.9	455.9
35°	5098.6	4143.5	1398.8	344.5	330.3	333.2	353.9	399.2	440.8	451.2	452.1
37.5°	5479.9	4279.4	1063.7	321.8	310.5	310.5	325.6	364.3	413.4	445.5	449.3
40°	5835.8	4361.5	745.6	303.9	292.6	292.6	305.8	334.1	380.4	428.5	438.9
42.5°	6164.2	4389.8	519.1	286.9	275.6	278.4	289.8	312.4	347.3	395.5	404.9
45°	6502.1	4385.1	378.5	267.1	258.6	267.1	275.6	292.6	318.1	345.4	347.3
47.5°	6756.9	4345.4	300.1	248.2	242.6	253.9	261.4	272.8	286.9	285.0	285.0
50°	6995.7	4249.2	241.6	222.7	226.5	239.7	243.5	247.3	248.2	230.3	228.4
52.5°	7177.0	4099.1	193.5	195.4	210.5	223.7	219.9	214.3	204.8	183.1	179.3
55°	7237.4	3810.3	152.0	161.4	186.9	203.9	189.7	177.4	159.5	141.6	137.8
57.5°	7127.9	3437.5	123.6	125.5	157.6	171.8	155.7	141.6	121.8	106.7	103.8
60°	6895.7	3023.1	101.9	94.4	121.8	134.0	123.6	109.5	91.6	80.2	79.3
62.5°	6435.1	2581.4	84.0	73.6	92.5	102.9	96.3	85.9	70.8	63.2	62.3
65°	5466.7	2065.1	68.0	59.5	71.7	80.2	74.6	67.0	55.7	50.0	49.1
67.5°	3815.9	1395.9	55.7	49.1	56.6	63.2	58.5	54.7	44.4	43.4	44.4
70°	1840.5	673.0	46.2	39.6	44.4	49.1	47.2	44.4	42.5	49.1	56.6
72.5°	527.6	225.6	36.8	33.0	35.9	38.7	40.6	39.6	46.2	59.5	68.9
73°	405.9	182.2	34.9	31.1	34.0	37.8	39.6	38.7	47.2	60.4	68.9
75°	173.7	87.8	26.4	25.5	28.3	33.0	34.9	34.9	47.2	61.3	66.1
77.5°	78.3	47.2	17.0	19.8	24.5	26.4	29.3	29.3	37.8	47.2	47.2
80°	44.4	25.5	13.2	15.1	17.9	17.9	17.9	16.0	17.0	18.9	20.8
82.5°	28.3	17.0	10.4	12.3	11.3	9.4	7.6	7.6	6.6	7.6	9.4
85°	16.0	9.4	9.4	7.6	4.7	3.8	4.7	3.8	0.9	0.0	0.9
87.5°	9.4	5.7	2.8	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)