

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: P322738

Luminaire Tested: **GAN-SA4D-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322738
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-SA4D-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA 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: 17663 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

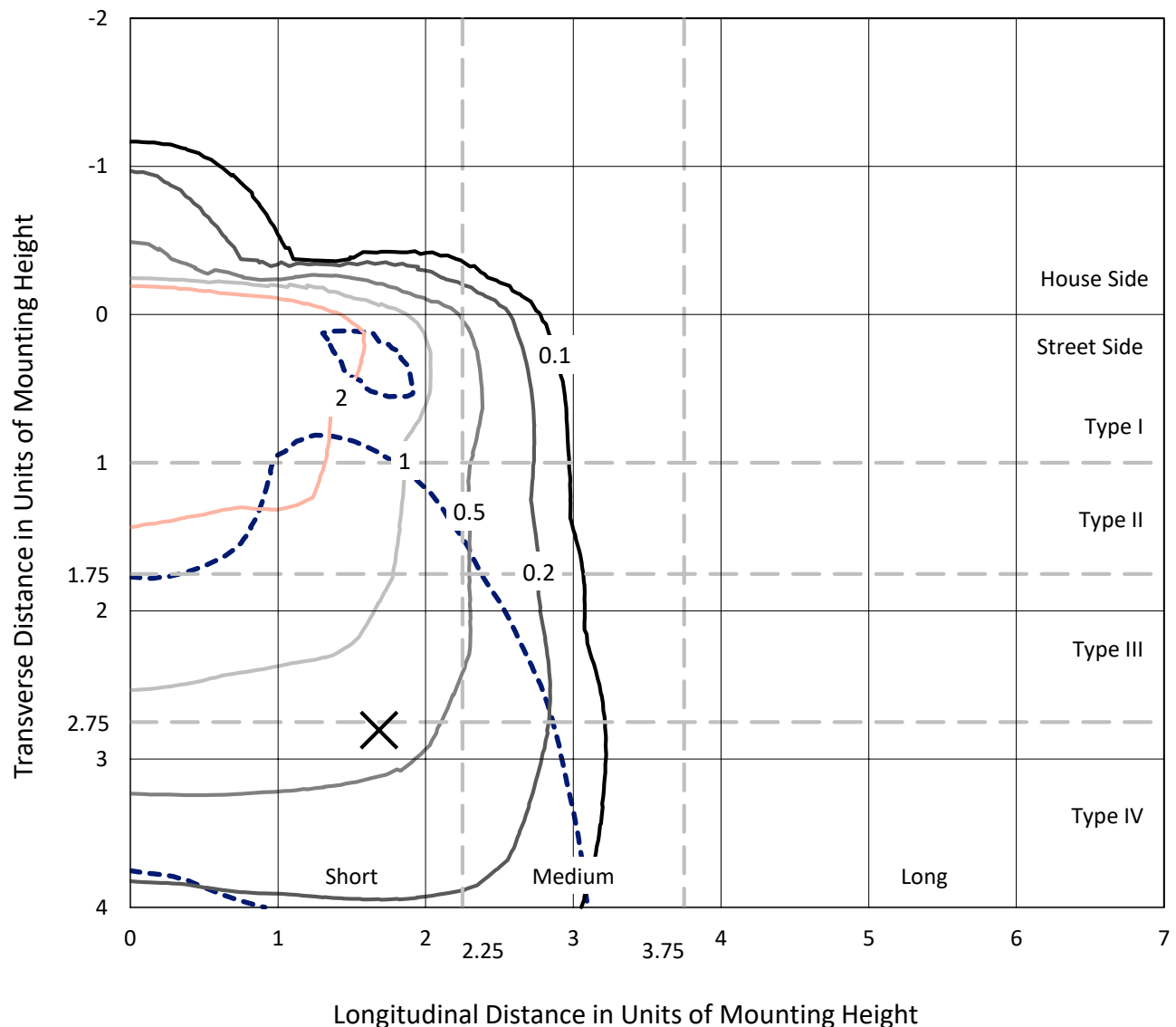
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

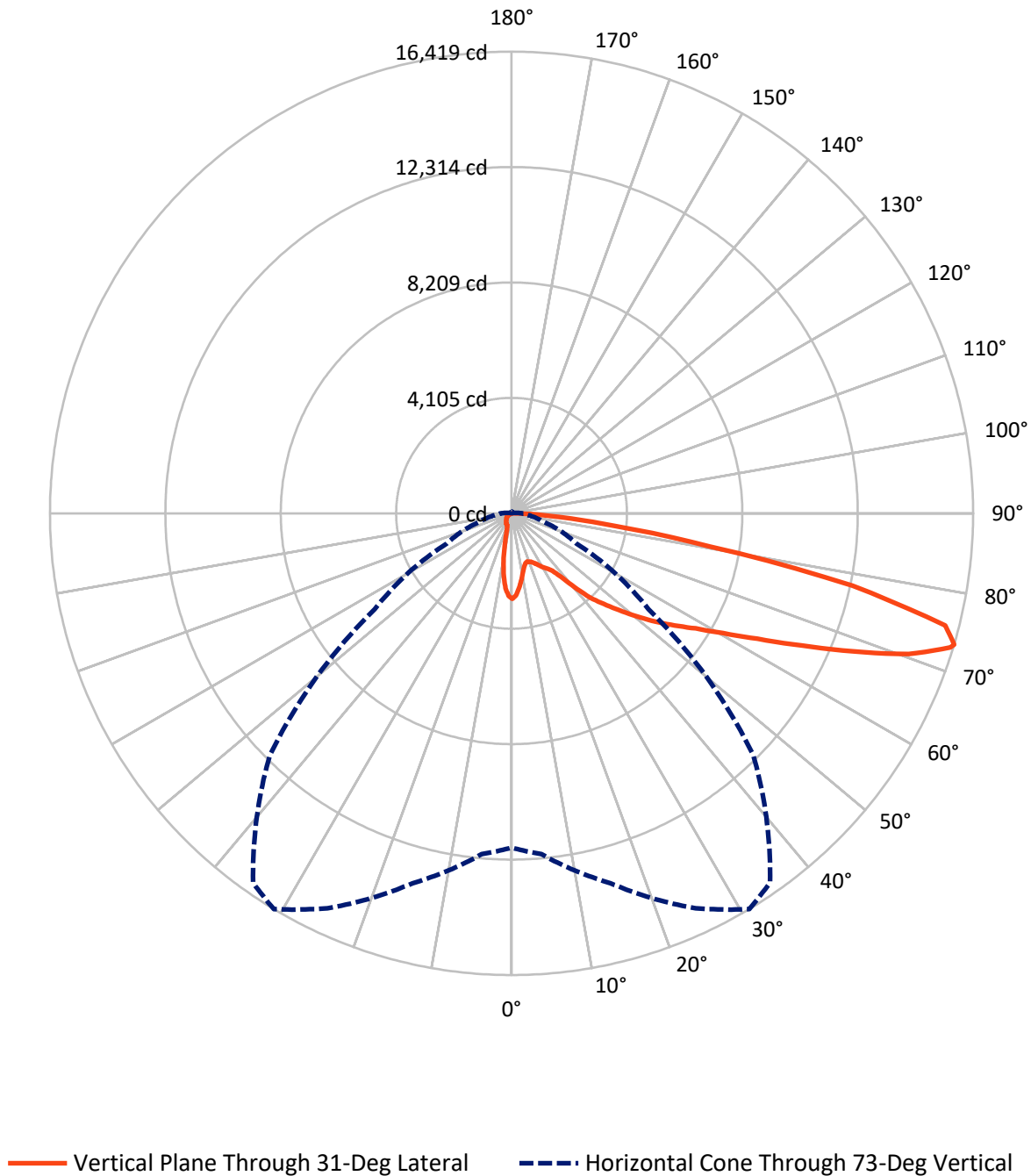
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	1610.0	0.0	1610.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	16053.0	0.0	16053.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	17663.0	0.0	17663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.0	1.4
10°-20°	547.1	3.1
20°-30°	819.7	4.6
30°-40°	1304.2	7.4
40°-50°	2328.9	13.2
50°-60°	3613.8	20.5
60°-70°	4804.0	27.2
70°-80°	3613.6	20.5
80°-90°	379.7	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°	17663.0	100.0
0°-180°	17663.0	100.0

Coefficient of Utilization



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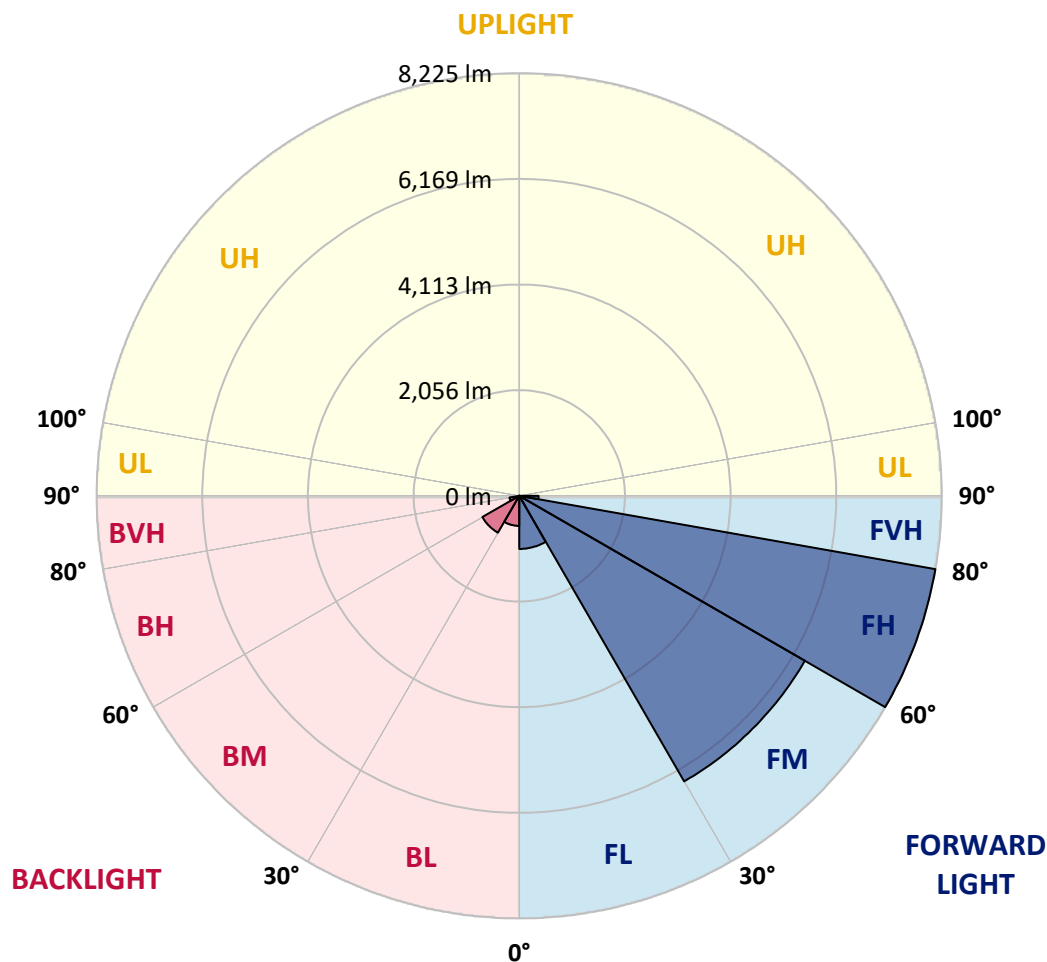
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1033.3	5.9			
FM	(30°-60°)	6418.1	36.3			
FH	(60°-80°)	8225.0	46.6			G4/12000
FVH	(80°-90°)	376.5	2.1			G3/500
BL	(0°-30°)	585.5	3.3	B2/1000		
BM	(30°-60°)	828.7	4.7	B1/1000		
BH	(60°-80°)	192.6	1.1	B1/500		G1/500
BVH	(80°-90°)	3.2	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°	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0
2.5°	2879.9	2892.0	2905.0	2907.6	2929.2	2930.1	2961.2	2984.5	3007.8	3030.3	3038.1
5°	2584.3	2604.2	2627.5	2650.9	2696.7	2714.8	2790.9	2868.7	2943.0	3013.9	3048.5
7.5°	2268.8	2291.3	2324.2	2382.1	2433.1	2468.5	2588.6	2726.9	2865.2	2995.7	3070.9
10°	1981.0	2001.8	2036.3	2097.7	2176.4	2224.8	2386.4	2578.3	2781.4	2979.3	3104.6
12.5°	1797.8	1809.0	1828.0	1893.7	1964.6	2019.1	2209.2	2446.9	2712.2	2978.5	3159.1
15°	1764.1	1767.5	1752.0	1781.4	1836.7	1889.4	2082.2	2340.6	2659.5	2992.3	3230.0
17.5°	1817.7	1815.9	1764.1	1760.6	1804.7	1847.9	2019.9	2267.1	2622.4	3024.3	3321.6
20°	1898.9	1892.9	1803.0	1786.6	1833.2	1873.8	2015.6	2239.5	2608.5	3077.8	3433.1
22.5°	2007.0	1996.6	1855.7	1838.4	1888.5	1930.9	2069.2	2266.3	2620.6	3149.6	3562.7
25°	2140.9	2125.4	1946.5	1927.4	1978.4	2020.8	2165.1	2343.2	2656.9	3236.9	3727.0
27.5°	2292.2	2269.7	2091.7	2042.4	2100.3	2144.4	2293.0	2460.7	2714.0	3329.4	3928.3
30°	2434.8	2405.4	2244.6	2163.4	2234.3	2283.5	2431.3	2600.7	2805.6	3472.0	4204.1
32.5°	2578.3	2545.4	2381.2	2284.4	2348.4	2402.0	2574.0	2793.5	2977.6	3689.8	4570.5
35°	2908.4	2873.9	2672.5	2512.6	2511.7	2542.0	2773.6	3057.1	3204.9	3993.2	5007.9
37.5°	3464.2	3444.3	3252.4	2949.1	2867.8	2834.1	3045.9	3371.7	3531.6	4410.6	5501.4
40°	4072.7	4055.4	3840.2	3565.3	3441.7	3358.8	3436.5	3809.9	3993.2	4920.6	6005.3
42.5°	4759.8	4677.7	4294.0	4211.8	4101.2	4038.1	3968.1	4350.1	4560.2	5475.5	6504.9
45°	5383.9	5245.6	4747.7	4623.3	4598.2	4613.7	4652.6	5076.2	5198.0	6135.0	7002.7
47.5°	5755.5	5646.6	5264.6	5145.3	5138.4	5241.2	5535.1	5896.4	5833.3	6709.7	7440.9
50°	6109.0	6010.5	5693.3	5722.7	5754.7	5894.7	6536.9	6740.0	6413.3	7230.9	7842.9
52.5°	6395.1	6244.7	6078.8	6243.9	6401.2	6626.8	7570.6	7497.1	6824.7	7645.8	8186.9
55°	6560.2	6491.9	6572.3	6738.3	7033.9	7400.3	8546.4	8127.2	7125.5	8024.4	8415.9
57.5°	7165.2	7031.3	7191.2	7334.6	7720.1	8232.7	9382.2	8596.5	7342.4	8258.6	8468.6
60°	7897.3	7789.3	7883.5	8122.0	8642.4	9244.8	10163.6	8979.4	7455.6	8409.0	8332.1
62.5°	9062.4	8919.8	8861.0	9128.1	9817.8	10475.6	10756.5	9244.8	7430.6	8342.4	7863.6
65°	10623.4	10475.6	10212.8	10454.8	11332.1	11796.3	11419.4	9301.0	7257.7	7804.0	6679.5
67.5°	12222.4	12115.2	11890.5	12298.4	13090.2	13239.7	12120.4	9164.4	6701.1	6327.7	4719.2
70°	13278.6	13232.8	13378.8	14281.2	14987.3	14944.1	12763.4	8430.6	5223.1	3891.2	2334.5
72.5°	12517.1	12736.6	13815.3	15451.5	16314.1	15961.4	12433.3	6473.8	2985.4	1497.0	675.0
73°	11886.2	12167.1	13619.1	15495.6	16418.7	16032.3	12155.8	5942.2	2544.6	1181.5	511.7
75°	8269.0	8613.8	11275.1	14431.6	15929.5	15275.2	10132.4	3637.1	1178.9	523.8	206.6
77.5°	4014.8	4269.7	6208.4	10427.2	12388.3	11934.6	6307.8	1355.3	532.4	327.6	95.1
80°	1498.7	1666.4	2695.0	5306.9	7159.2	7346.7	2774.5	512.5	354.4	263.6	48.4
82.5°	392.4	437.3	994.0	2366.5	3669.0	3840.2	874.7	258.4	259.3	216.9	29.4
85°	125.3	143.5	310.3	1062.3	1728.6	1517.7	228.2	125.3	188.4	161.6	16.4
87.5°	15.6	19.9	98.5	249.8	381.2	211.8	35.4	37.2	80.4	89.9	9.5
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°	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0	3039.0
2.5°	3045.9	3041.5	3042.4	3019.9	3005.2	2975.9	2945.6	2931.8	2917.1	2911.0	2917.1
5°	3061.4	3053.6	3031.2	2962.0	2888.6	2793.5	2704.5	2637.0	2552.3	2529.0	2553.2
7.5°	3085.6	3070.1	3004.4	2863.5	2700.1	2518.6	2314.7	2166.0	2044.1	1965.5	1994.0
10°	3121.1	3091.7	2959.4	2720.0	2427.9	2106.4	1816.8	1591.2	1431.3	1365.6	1363.0
12.5°	3180.7	3125.4	2904.1	2533.3	2095.1	1666.4	1287.0	1042.4	912.7	828.9	827.2
15°	3246.4	3165.1	2834.1	2309.5	1707.9	1193.6	828.9	643.1	559.2	532.4	529.0
17.5°	3326.8	3211.0	2743.4	2033.7	1302.5	790.9	541.1	487.5	484.0	481.4	481.4
20°	3427.9	3265.4	2626.7	1718.3	924.0	528.1	459.8	463.3	465.0	461.5	462.4
22.5°	3545.4	3320.7	2487.5	1379.5	624.9	441.7	439.9	444.3	446.0	444.3	445.1
25°	3682.0	3384.7	2318.1	1024.2	451.2	419.2	423.5	429.6	433.9	433.9	433.9
27.5°	3851.4	3462.5	2114.1	714.8	389.8	395.9	408.0	419.2	425.2	427.0	427.0
30°	4071.8	3559.3	1869.5	490.1	354.4	364.7	387.2	408.8	420.1	421.8	422.7
32.5°	4350.1	3668.2	1586.0	362.2	324.1	331.9	356.1	392.4	414.0	417.5	417.5
35°	4669.1	3794.4	1280.9	315.5	302.5	305.1	324.1	365.6	403.6	413.1	414.0
37.5°	5018.3	3918.8	974.1	294.7	284.4	284.4	298.2	333.6	378.6	408.0	411.4
40°	5344.1	3994.0	682.8	278.3	267.9	267.9	280.0	306.0	348.3	392.4	401.9
42.5°	5644.9	4020.0	475.4	262.8	252.4	255.0	265.3	286.1	318.1	362.2	370.8
45°	5954.3	4015.6	346.6	244.6	236.8	244.6	252.4	267.9	291.3	316.3	318.1
47.5°	6187.7	3979.3	274.9	227.3	222.1	232.5	239.4	249.8	262.8	261.0	261.0
50°	6406.4	3891.2	221.3	204.0	207.4	219.5	223.0	226.5	227.3	210.9	209.2
52.5°	6572.3	3753.7	177.2	178.9	192.7	204.8	201.4	196.2	187.6	167.7	164.2
55°	6627.6	3489.3	139.2	147.8	171.1	186.7	173.7	162.5	146.1	129.6	126.2
57.5°	6527.4	3147.9	113.2	115.0	144.3	157.3	142.6	129.6	111.5	97.7	95.1
60°	6314.7	2768.4	93.3	86.4	111.5	122.7	113.2	100.3	83.8	73.5	72.6
62.5°	5892.9	2363.9	76.9	67.4	84.7	94.2	88.2	78.7	64.8	57.9	57.0
65°	5006.2	1891.1	62.2	54.5	65.7	73.5	68.3	61.4	51.0	45.8	44.9
67.5°	3494.5	1278.3	51.0	44.9	51.9	57.9	53.6	50.1	40.6	39.8	40.6
70°	1685.4	616.3	42.4	36.3	40.6	44.9	43.2	40.6	38.9	44.9	51.9
72.5°	483.2	206.6	33.7	30.3	32.8	35.4	37.2	36.3	42.4	54.5	63.1
73°	371.7	166.8	32.0	28.5	31.1	34.6	36.3	35.4	43.2	55.3	63.1
75°	159.0	80.4	24.2	23.3	25.9	30.3	32.0	32.0	43.2	56.2	60.5
77.5°	71.7	43.2	15.6	18.2	22.5	24.2	26.8	26.8	34.6	43.2	43.2
80°	40.6	23.3	12.1	13.8	16.4	16.4	16.4	14.7	15.6	17.3	19.0
82.5°	25.9	15.6	9.5	11.2	10.4	8.6	6.9	6.9	6.1	6.9	8.6
85°	14.7	8.6	8.6	6.9	4.3	3.5	4.3	3.5	0.9	0.0	0.9
87.5°	8.6	5.2	2.6	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)