

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: P322729

Luminaire Tested: **GAN-SA5C-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322729
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-SA5C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 19950 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

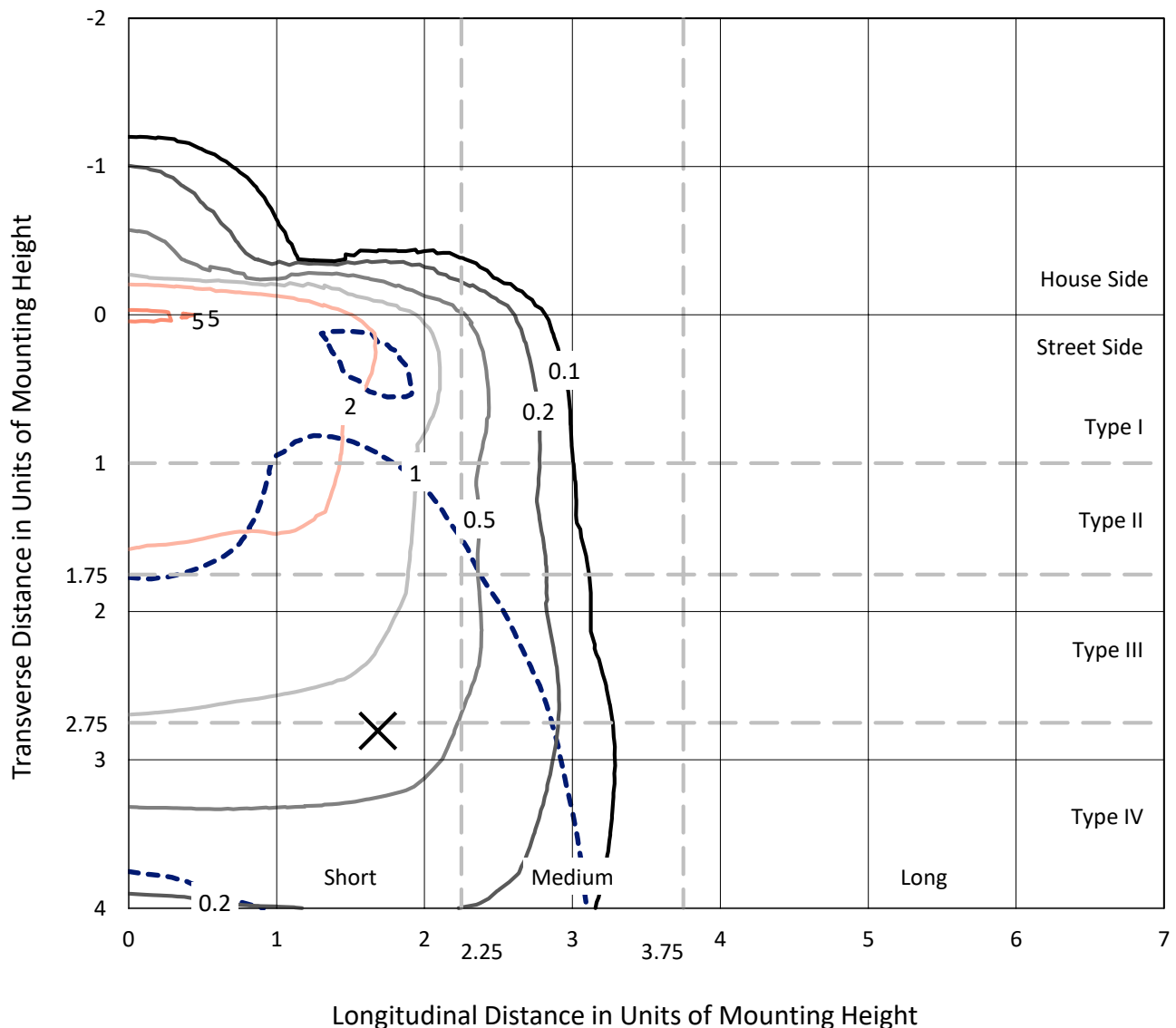
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

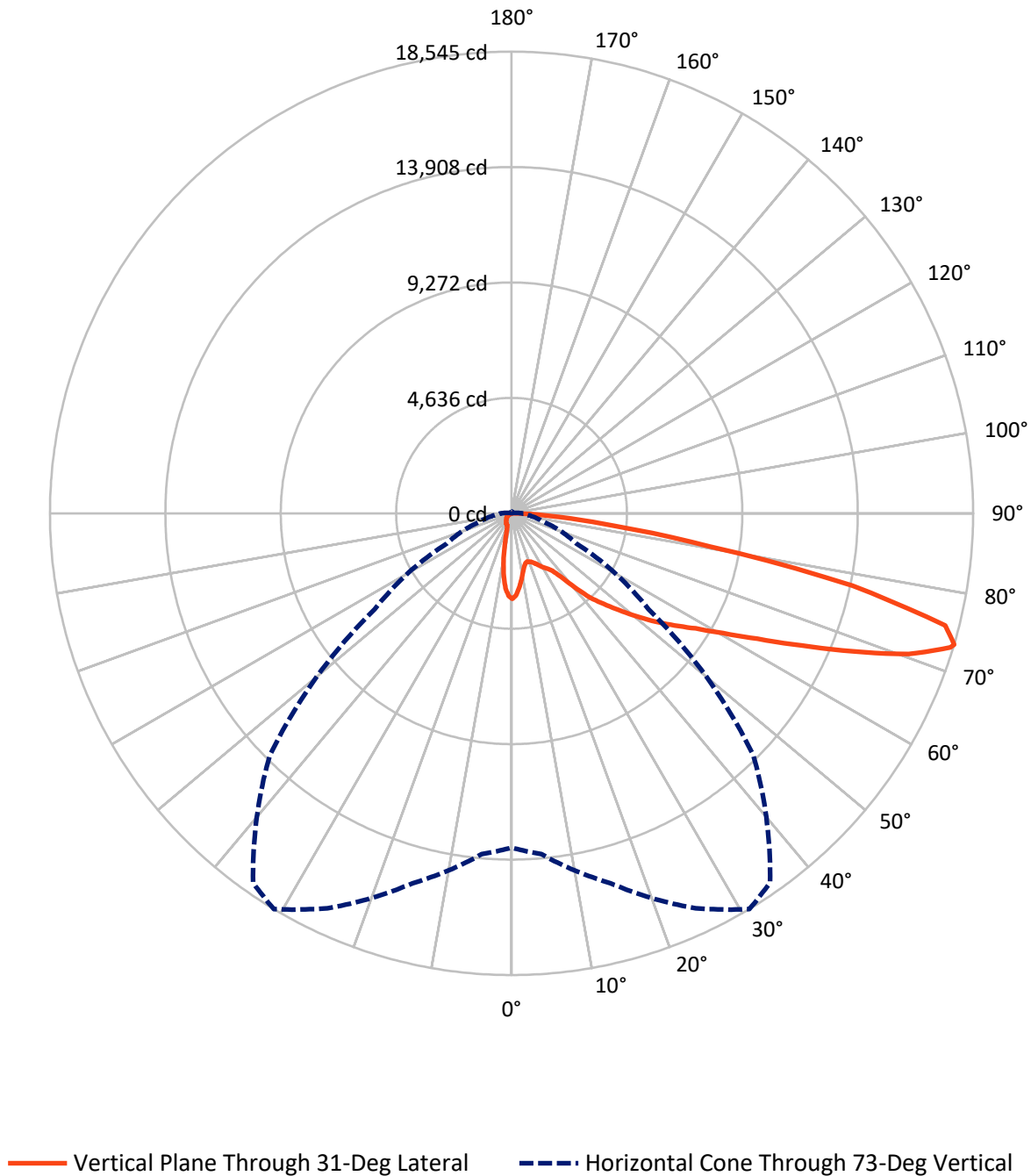
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	1818.5	0.0	1818.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	18131.5	0.0	18131.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	19950.0	0.0	19950.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	1.4
10°-20°	617.9	3.1
20°-30°	925.9	4.6
30°-40°	1473.0	7.4
40°-50°	2630.4	13.2
50°-60°	4081.7	20.5
60°-70°	5426.0	27.2
70°-80°	4081.5	20.5
80°-90°	428.9	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°	19950.0	100.0
0°-180°	19950.0	100.0

Coefficient of Utilization



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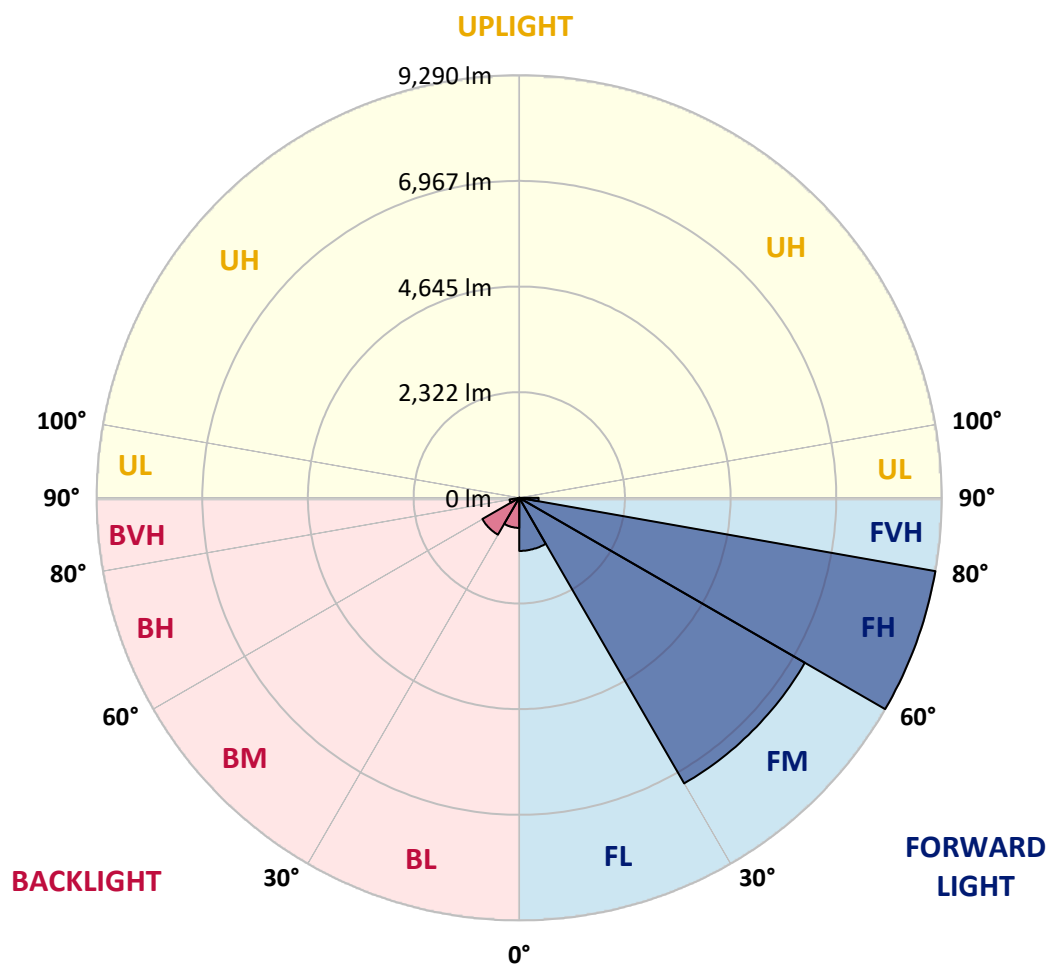
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1167.1	5.9			
FM	(30°-60°)	7249.1	36.3			
FH	(60°-80°)	9290.0	46.6			G4/12000
FVH	(80°-90°)	425.3	2.1			G3/500
BL	(0°-30°)	661.3	3.3	B2/1000		
BM	(30°-60°)	936.0	4.7	B1/1000		
BH	(60°-80°)	217.6	1.1	B1/500		G1/500
BVH	(80°-90°)	3.6	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°	3432.4	3432.4	3432.4	3432.4	3432.4	3432.4	3432.4	3432.4	3432.4	3432.4	3432.4
2.5°	3252.8	3266.5	3281.1	3284.1	3308.5	3309.4	3344.6	3370.9	3397.3	3422.7	3431.5
5°	2918.9	2941.4	2967.8	2994.1	3045.8	3066.4	3152.3	3240.1	3324.1	3404.1	3443.2
7.5°	2562.6	2588.0	2625.1	2690.5	2748.1	2788.1	2923.8	3080.0	3236.2	3383.6	3468.6
10°	2237.5	2261.0	2300.0	2369.3	2458.2	2512.8	2695.4	2912.1	3141.5	3365.1	3506.6
12.5°	2030.6	2043.3	2064.7	2138.9	2219.0	2280.5	2495.3	2763.7	3063.4	3364.1	3568.1
15°	1992.5	1996.4	1978.8	2012.0	2074.5	2134.0	2351.7	2643.6	3003.9	3379.7	3648.2
17.5°	2053.0	2051.1	1992.5	1988.6	2038.4	2087.2	2281.5	2560.7	2961.9	3415.8	3751.7
20°	2144.8	2138.0	2036.4	2017.9	2070.6	2116.5	2276.6	2529.4	2946.3	3476.4	3877.6
22.5°	2266.8	2255.1	2096.0	2076.4	2133.1	2180.9	2337.1	2559.7	2959.9	3557.4	4024.0
25°	2418.1	2400.6	2198.5	2177.0	2234.6	2282.4	2445.5	2646.6	3000.9	3656.0	4209.5
27.5°	2589.0	2563.6	2362.5	2306.8	2372.2	2422.0	2589.9	2779.3	3065.4	3760.5	4437.0
30°	2750.1	2716.9	2535.3	2443.5	2523.6	2579.2	2746.1	2937.5	3168.9	3921.5	4748.4
32.5°	2912.1	2875.0	2689.5	2580.2	2652.4	2713.0	2907.2	3155.2	3363.1	4167.5	5162.3
35°	3285.0	3246.0	3018.5	2837.9	2836.9	2871.1	3132.7	3452.9	3619.9	4510.2	5656.3
37.5°	3912.7	3890.3	3673.6	3330.9	3239.1	3201.1	3440.2	3808.3	3988.9	4981.7	6213.7
40°	4600.0	4580.5	4337.4	4027.0	3887.4	3793.6	3881.5	4303.2	4510.2	5557.7	6782.9
42.5°	5376.1	5283.4	4849.9	4757.2	4632.2	4561.0	4481.9	4913.4	5150.6	6184.4	7347.1
45°	6081.0	5924.8	5362.5	5221.9	5193.6	5211.1	5255.1	5733.4	5871.1	6929.3	7909.4
47.5°	6500.7	6377.7	5946.2	5811.5	5803.7	5919.9	6251.8	6659.9	6588.6	7578.5	8404.4
50°	6900.0	6788.7	6430.5	6463.6	6499.8	6657.9	7383.3	7612.7	7243.7	8167.2	8858.3
52.5°	7223.2	7053.3	6865.9	7052.3	7230.0	7484.8	8550.8	8467.9	7708.3	8635.8	9246.9
55°	7409.6	7332.5	7423.3	7610.7	7944.6	8358.5	9653.0	9179.5	8048.1	9063.4	9505.6
57.5°	8093.0	7941.7	8122.3	8284.3	8719.7	9298.6	10597.0	9709.6	8293.1	9327.9	9565.1
60°	8919.8	8797.8	8904.2	9173.7	9761.4	10441.8	11479.5	10142.1	8421.0	9497.8	9410.9
62.5°	10235.8	10074.7	10008.3	10310.0	11089.0	11832.0	12149.2	10441.8	8392.7	9422.6	8881.8
65°	11998.9	11832.0	11535.2	11808.5	12799.4	13323.6	12898.0	10505.3	8197.4	8814.4	7544.3
67.5°	13804.9	13683.9	13430.0	13890.8	14785.1	14954.0	13689.7	10351.0	7568.7	7147.0	5330.2
70°	14997.9	14946.1	15111.1	16130.3	16927.9	16879.1	14416.0	9522.2	5899.4	4395.0	2636.8
72.5°	14137.8	14385.8	15604.1	17452.1	18426.4	18028.1	14043.1	7312.0	3371.9	1690.8	762.4
73°	13425.2	13742.4	15382.5	17501.9	18544.5	18108.2	13729.8	6711.6	2874.0	1334.5	577.9
75°	9339.6	9729.1	12735.0	16300.2	17992.0	17253.0	11444.4	4108.0	1331.6	591.6	233.3
77.5°	4534.6	4822.6	7012.3	11777.3	13992.4	13479.8	7124.6	1530.7	601.4	370.0	107.4
80°	1692.8	1882.2	3043.9	5994.1	8086.1	8298.0	3133.7	578.9	400.3	297.8	54.7
82.5°	443.2	494.0	1122.7	2672.9	4144.1	4337.4	987.9	291.9	292.9	245.0	33.2
85°	141.6	162.1	350.5	1199.8	1952.5	1714.3	257.7	141.6	212.8	182.6	18.5
87.5°	17.6	22.5	111.3	282.1	430.5	239.2	40.0	42.0	90.8	101.5	10.7
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°	3432.4	3432.4	3432.4	3432.4	3432.4	3432.4	3432.4	3432.4	3432.4	3432.4	3432.4
2.5°	3440.2	3435.4	3436.3	3411.0	3394.4	3361.2	3327.0	3311.4	3294.8	3288.0	3294.8
5°	3457.8	3449.0	3423.7	3345.6	3262.6	3155.2	3054.6	2978.5	2882.8	2856.5	2883.8
7.5°	3485.2	3467.6	3393.4	3234.3	3049.8	2844.7	2614.4	2446.4	2308.8	2220.0	2252.2
10°	3525.2	3492.0	3342.6	3072.2	2742.2	2379.1	2052.0	1797.2	1616.6	1542.4	1539.5
12.5°	3592.5	3530.1	3280.1	2861.3	2366.4	1882.2	1453.6	1177.3	1030.9	936.2	934.3
15°	3666.7	3575.0	3201.1	2608.5	1929.0	1348.2	936.2	726.3	631.6	601.4	597.5
17.5°	3757.5	3626.7	3098.6	2297.1	1471.2	893.3	611.1	550.6	546.7	543.8	543.8
20°	3871.7	3688.2	2966.8	1940.8	1043.6	596.5	519.4	523.3	525.2	521.3	522.3
22.5°	4004.5	3750.7	2809.6	1558.1	705.8	498.9	496.9	501.8	503.7	501.8	502.8
25°	4158.8	3822.9	2618.3	1156.8	509.6	473.5	478.4	485.2	490.1	490.1	490.1
27.5°	4350.1	3910.8	2387.9	807.3	440.3	447.1	460.8	473.5	480.3	482.3	482.3
30°	4599.0	4020.1	2111.6	553.5	400.3	412.0	437.4	461.8	474.4	476.4	477.4
32.5°	4913.4	4143.1	1791.4	409.0	366.1	374.9	402.2	443.2	467.6	471.5	471.5
35°	5273.6	4285.7	1446.8	356.3	341.7	344.6	366.1	412.9	455.9	466.6	467.6
37.5°	5668.0	4426.2	1100.2	332.9	321.2	321.2	336.8	376.8	427.6	460.8	464.7
40°	6036.1	4511.2	771.2	314.3	302.6	302.6	316.3	345.6	393.4	443.2	453.9
42.5°	6375.8	4540.5	536.9	296.8	285.1	288.0	299.7	323.1	359.3	409.0	418.8
45°	6725.3	4535.6	391.5	276.3	267.5	276.3	285.1	302.6	329.0	357.3	359.3
47.5°	6988.9	4494.6	310.4	256.7	250.9	262.6	270.4	282.1	296.8	294.8	294.8
50°	7235.8	4395.0	249.9	230.4	234.3	248.0	251.9	255.8	256.7	238.2	236.2
52.5°	7423.3	4239.8	200.1	202.1	217.7	231.4	227.5	221.6	211.8	189.4	185.5
55°	7485.8	3941.1	157.2	166.9	193.3	210.9	196.2	183.5	165.0	146.4	142.5
57.5°	7372.5	3555.4	127.9	129.8	163.0	177.7	161.1	146.4	125.9	110.3	107.4
60°	7132.4	3126.9	105.4	97.6	125.9	138.6	127.9	113.2	94.7	83.0	82.0
62.5°	6656.0	2670.0	86.9	76.1	95.7	106.4	99.6	88.8	73.2	65.4	64.4
65°	5654.3	2136.0	70.3	61.5	74.2	83.0	77.1	69.3	57.6	51.7	50.8
67.5°	3946.9	1443.8	57.6	50.8	58.6	65.4	60.5	56.6	45.9	44.9	45.9
70°	1903.7	696.1	47.8	41.0	45.9	50.8	48.8	45.9	43.9	50.8	58.6
72.5°	545.7	233.3	38.1	34.2	37.1	40.0	42.0	41.0	47.8	61.5	71.3
73°	419.8	188.4	36.1	32.2	35.1	39.0	41.0	40.0	48.8	62.5	71.3
75°	179.6	90.8	27.3	26.4	29.3	34.2	36.1	36.1	48.8	63.5	68.3
77.5°	81.0	48.8	17.6	20.5	25.4	27.3	30.3	30.3	39.0	48.8	48.8
80°	45.9	26.4	13.7	15.6	18.5	18.5	18.5	16.6	17.6	19.5	21.5
82.5°	29.3	17.6	10.7	12.7	11.7	9.8	7.8	7.8	6.8	7.8	9.8
85°	16.6	9.8	9.8	7.8	4.9	3.9	4.9	3.9	1.0	0.0	1.0
87.5°	9.8	5.9	2.9	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)