

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: P323009

Luminaire Tested: **GAN-SA5C-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18836 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

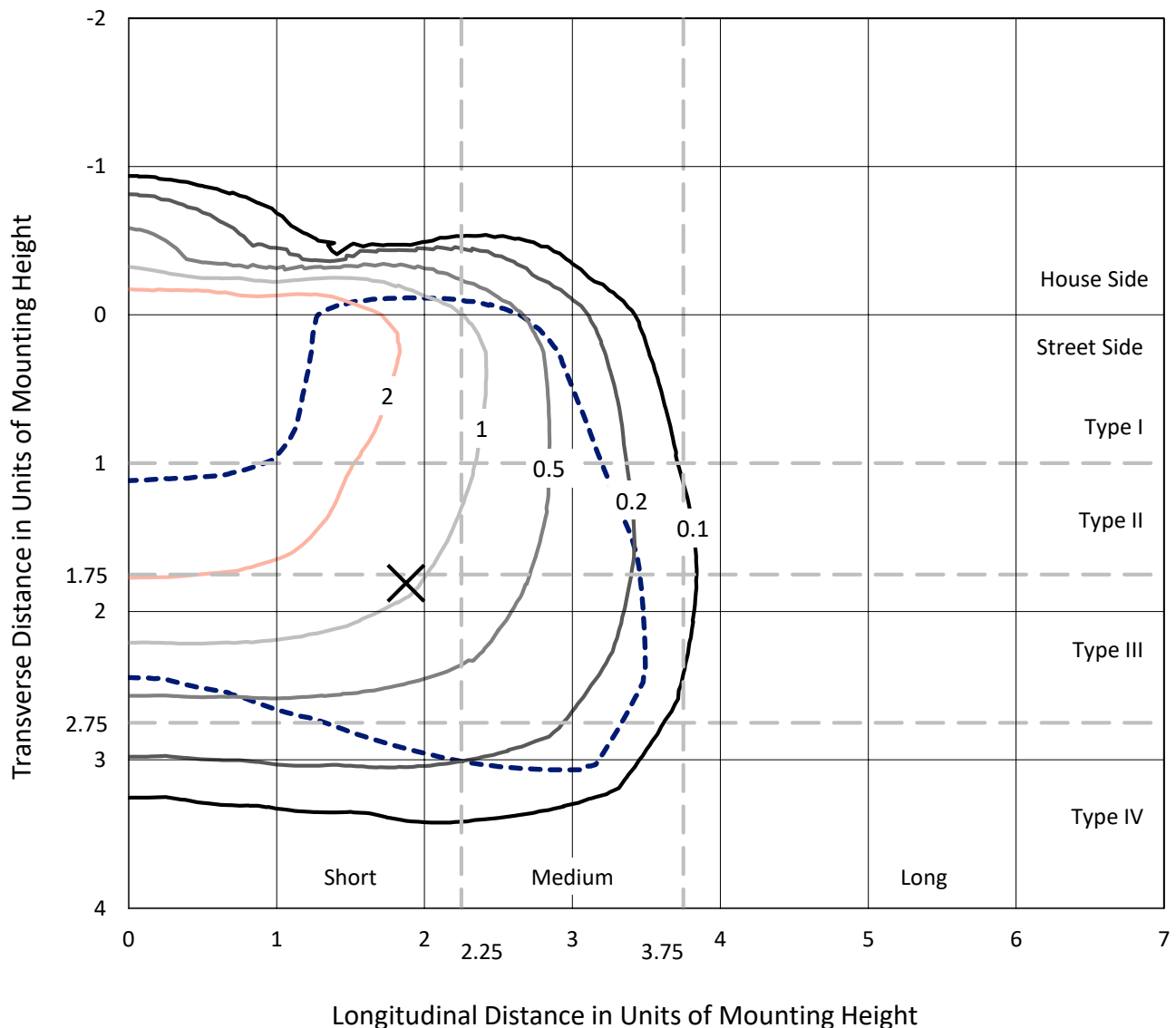
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

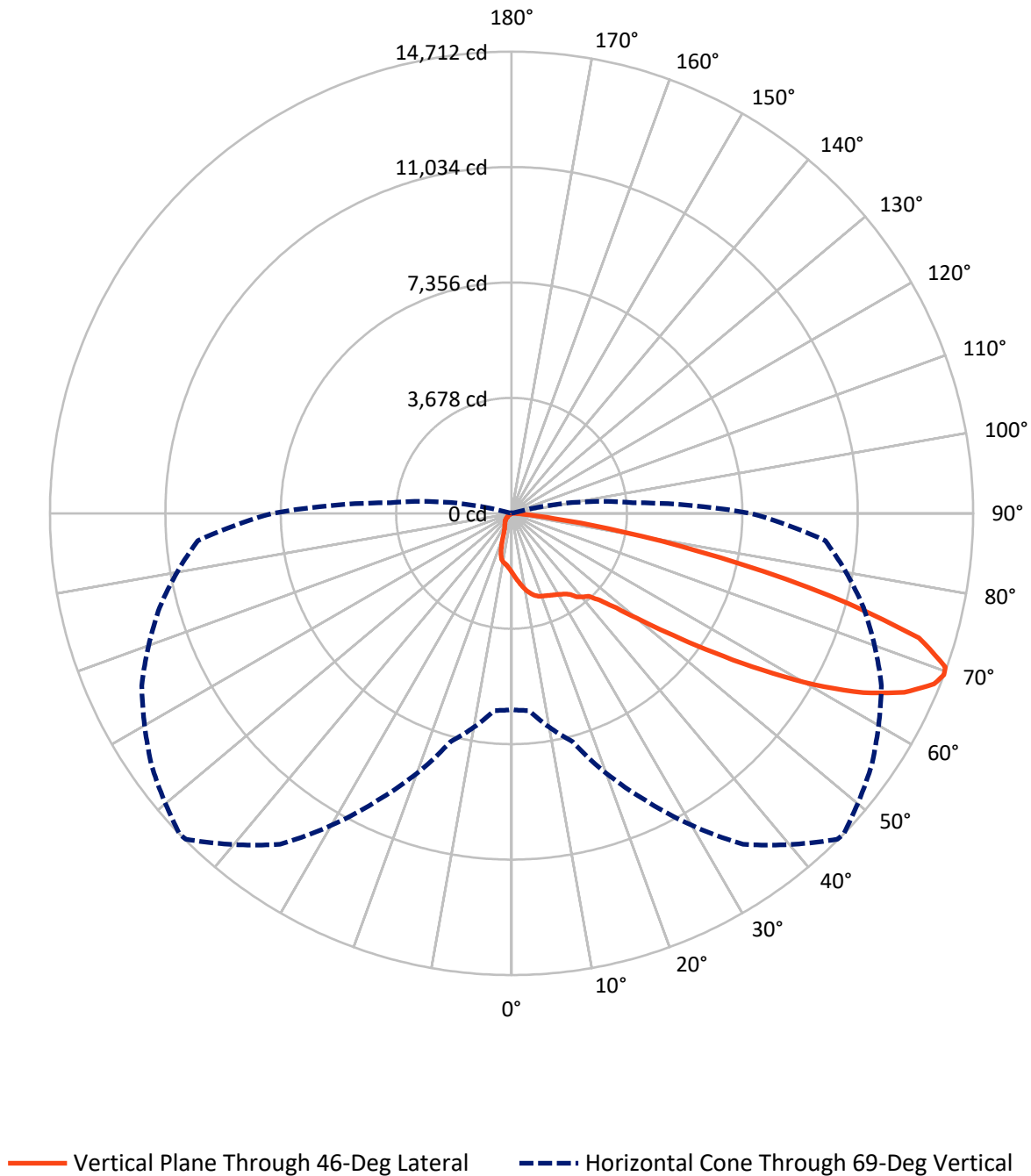
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	1933.1	0.0	1933.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	16902.9	0.0	16902.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	18836.0	0.0	18836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	1.0
10°-20°	569.9	3.0
20°-30°	896.3	4.8
30°-40°	1285.2	6.8
40°-50°	2221.4	11.8
50°-60°	4388.5	23.3
60°-70°	6133.3	32.6
70°-80°	2963.1	15.7
80°-90°	190.4	1.0
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°	18836.0	100.0
0°-180°	18836.0	100.0

Coefficient of Utilization



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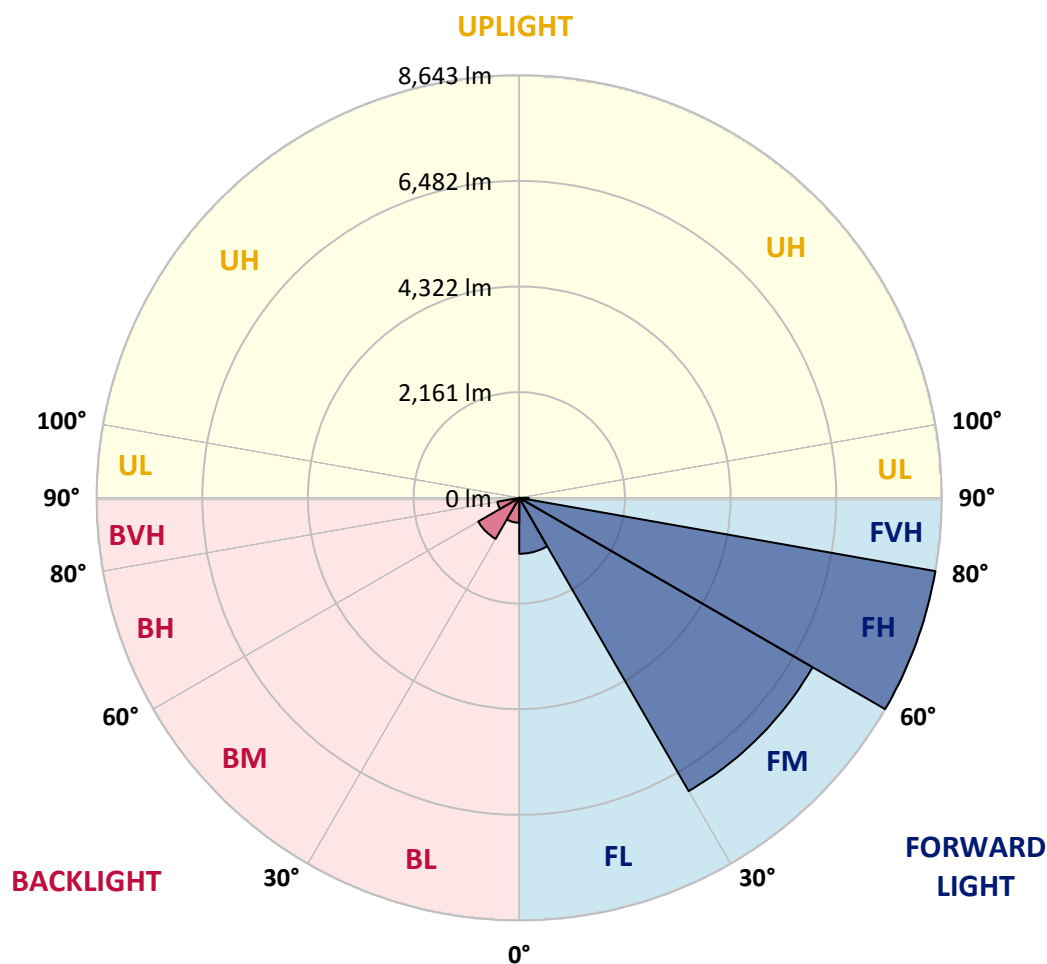
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1144.5	6.1			
FM	(30°-60°)	6926.4	36.8			
FH	(60°-80°)	8643.1	45.9			G4/12000
FVH	(80°-90°)	188.8	1.0			G2/225
BL	(0°-30°)	509.5	2.7	B2/1000		
BM	(30°-60°)	968.7	5.1	B1/1000		
BH	(60°-80°)	453.3	2.4	B1/500		G1/500
BVH	(80°-90°)	1.6	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°	35°	45°	46°	55°	65°	75°	85°
0°	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3
2.5°	2096.6	2094.0	2081.6	2076.3	2046.3	2028.6	2021.5	1999.5	1967.7	1935.9	1900.5
5°	2335.1	2334.2	2311.2	2289.1	2232.6	2179.6	2169.9	2118.7	2047.1	1980.0	1912.9
7.5°	2578.8	2567.3	2544.4	2502.0	2419.8	2335.1	2327.1	2254.7	2153.1	2056.0	1959.7
10°	2785.5	2778.4	2748.4	2683.9	2587.6	2491.4	2481.7	2392.5	2277.7	2158.4	2035.7
12.5°	2946.2	2940.9	2901.2	2820.8	2718.3	2618.5	2605.3	2525.8	2403.1	2269.7	2124.9
15°	3044.2	3041.6	2993.0	2907.3	2806.7	2720.1	2708.6	2638.9	2524.9	2385.4	2222.0
17.5°	3067.2	3068.1	3017.7	2931.2	2848.2	2786.3	2777.5	2724.5	2629.1	2490.5	2319.2
20°	3016.0	3026.6	2981.5	2906.5	2855.2	2822.6	2815.5	2783.7	2703.3	2572.6	2396.9
22.5°	2943.5	2948.8	2917.9	2867.6	2846.4	2852.6	2849.0	2831.4	2763.4	2643.3	2473.7
25°	2899.4	2899.4	2880.8	2838.5	2852.6	2890.6	2891.4	2887.9	2834.0	2729.8	2567.3
27.5°	2897.6	2892.3	2871.1	2839.3	2878.2	2936.5	2940.0	2963.9	2930.3	2834.9	2683.9
30°	2968.3	2962.1	2917.1	2875.5	2925.0	2987.7	2996.5	3048.6	3031.9	2948.8	2813.7
32.5°	3133.4	3111.3	3011.5	2943.5	2980.6	3055.7	3067.2	3150.2	3176.7	3089.3	2939.1
35°	3359.5	3289.7	3145.8	3072.5	3076.0	3154.6	3165.2	3287.1	3365.7	3218.2	3036.3
37.5°	3671.3	3636.8	3402.8	3206.7	3222.6	3341.8	3372.8	3505.2	3483.2	3288.9	3146.7
40°	4354.8	4301.0	4051.9	3582.9	3363.0	3493.8	3503.5	3574.1	3575.9	3448.7	3376.3
42.5°	5285.7	5263.6	5001.3	4265.6	3639.5	3595.3	3613.0	3732.2	3865.6	3786.1	3782.5
45°	6316.3	6304.8	6026.6	5171.7	4198.5	3928.3	3950.3	4110.2	4365.4	4383.1	4495.2
47.5°	7145.6	7140.3	6980.4	6183.0	5054.3	4492.6	4499.7	4669.2	5117.9	5339.5	5518.8
50°	7901.6	7927.2	7800.9	7277.2	6220.0	5376.6	5359.9	5472.9	6193.5	6556.5	6779.1
52.5°	8952.5	8988.7	8634.6	8298.1	7443.2	6473.5	6460.3	6578.6	7486.5	7758.5	7798.2
55°	9880.7	9818.9	9538.9	9441.8	8934.9	7828.3	7824.7	7928.9	8737.0	8852.7	8926.0
57.5°	10290.5	10266.6	10401.8	10624.3	10497.2	9429.4	9421.5	9342.0	9856.0	9868.3	10093.5
60°	10549.3	10578.4	10992.6	11678.8	11995.9	11152.4	11101.2	10616.4	10924.6	10897.2	11138.3
62.5°	10355.0	10412.4	11157.7	12301.4	13117.5	12656.5	12584.0	11783.9	11837.8	11743.3	11967.6
65°	9323.4	9412.6	10634.0	12184.0	13673.8	13831.9	13758.6	12814.5	12562.8	12407.4	12282.9
67.5°	7570.4	7623.4	8898.6	11162.2	13423.0	14533.2	14518.1	13718.0	13110.4	12295.2	11329.1
69°	6256.3	6308.4	7535.9	10086.5	12871.1	14683.3	14712.4	14007.7	13006.2	11613.5	10037.9
70°	5298.9	5354.6	6498.2	9164.5	12230.8	14613.5	14665.6	13980.3	12707.7	10823.9	8904.8
72.5°	2779.3	2827.0	4000.7	6313.7	9970.8	13418.6	13576.7	12798.6	10771.8	7860.9	5265.4
75°	873.4	900.8	1562.3	3300.3	6826.8	10433.6	10469.8	10039.7	7649.0	4323.9	2192.9
77.5°	332.9	325.0	520.2	1216.1	3451.4	6569.8	6791.4	6273.9	4013.9	1528.7	506.0
80°	179.3	180.2	270.2	503.4	1476.6	3376.3	3563.5	3040.7	1426.3	476.9	116.6
82.5°	77.7	81.3	151.9	266.7	678.3	1245.2	1338.9	1114.5	544.9	320.6	43.3
85°	16.8	18.5	73.3	144.8	276.4	349.7	366.5	361.2	347.1	249.0	16.8
87.5°	0.0	0.0	32.7	52.1	69.8	79.5	69.8	91.0	191.6	167.8	8.8
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°	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3	1887.3
2.5°	1889.1	1873.2	1845.8	1815.8	1794.6	1772.5	1754.8	1746.9	1738.0	1731.9	1739.8
5°	1885.5	1854.6	1801.6	1750.4	1713.3	1683.3	1658.6	1648.8	1639.1	1632.1	1631.2
7.5°	1916.4	1873.2	1791.9	1716.8	1659.4	1618.8	1585.3	1571.1	1559.6	1554.3	1549.9
10°	1975.6	1920.0	1811.3	1713.3	1639.1	1570.2	1497.8	1442.2	1406.0	1389.2	1383.0
12.5°	2052.4	1982.7	1848.4	1731.9	1624.1	1491.6	1338.0	1205.5	1119.8	1091.6	1074.8
15°	2142.5	2056.0	1897.0	1755.7	1569.4	1327.4	1066.8	893.8	814.3	798.4	780.7
17.5°	2229.1	2133.7	1955.3	1760.1	1449.3	1060.7	781.6	664.1	633.2	643.8	646.5
20°	2305.0	2210.5	2012.7	1721.3	1231.1	795.7	605.0	575.8	587.3	607.6	611.1
22.5°	2381.9	2284.7	2065.7	1618.8	952.0	604.1	544.9	552.0	563.5	583.8	587.3
25°	2475.5	2374.8	2115.2	1430.7	714.5	514.0	517.5	528.1	539.6	558.2	559.9
27.5°	2583.2	2488.7	2147.8	1186.1	529.9	472.5	484.0	499.9	511.3	529.0	532.5
30°	2726.3	2638.9	2158.4	932.6	444.2	435.4	440.7	460.1	476.9	492.8	495.4
32.5°	2860.5	2787.2	2123.1	703.9	411.5	401.0	401.0	412.4	431.9	446.9	450.4
35°	2984.2	2936.5	2010.1	514.9	386.8	369.2	360.3	360.3	372.7	385.1	388.6
37.5°	3147.6	3145.8	1827.2	410.7	363.0	342.7	324.1	310.0	305.6	308.2	310.0
40°	3427.5	3430.2	1588.8	368.3	342.7	315.3	287.0	261.4	237.6	229.6	228.7
42.5°	3864.7	3824.9	1338.9	348.0	325.0	287.0	244.6	210.2	173.1	161.6	160.7
45°	4558.8	4323.0	1073.9	329.4	306.5	255.2	202.2	155.4	125.4	116.6	116.6
47.5°	5570.0	4977.4	831.9	309.1	281.7	219.0	152.8	112.2	91.8	87.4	88.3
50°	6615.7	5618.6	637.6	283.5	251.7	181.0	113.0	81.3	69.8	69.8	70.7
52.5°	7543.0	6088.5	497.2	256.1	214.6	142.2	85.7	63.6	58.3	57.4	58.3
55°	8411.1	6391.4	380.6	224.3	170.4	106.0	65.4	52.1	48.6	46.8	45.9
57.5°	9248.4	6541.5	285.3	181.0	123.6	76.8	52.1	44.2	40.6	38.0	37.1
60°	9805.6	6419.6	196.1	133.4	85.7	55.6	43.3	38.0	33.6	30.9	30.0
62.5°	10120.0	6086.7	126.3	96.3	60.9	41.5	34.4	31.8	25.6	23.0	23.0
65°	9992.9	5537.4	88.3	68.9	44.2	30.9	25.6	25.6	18.5	15.0	14.1
67.5°	8855.4	4678.1	67.1	51.2	31.8	23.0	19.4	22.1	11.5	7.1	7.1
69°	7619.0	3877.0	57.4	42.4	26.5	18.5	16.8	20.3	7.9	5.3	4.4
70°	6621.9	3344.5	52.1	37.1	22.1	15.9	15.0	19.4	7.9	4.4	3.5
72.5°	3961.8	1865.2	39.7	26.5	14.1	12.4	12.4	22.1	7.9	4.4	3.5
75°	1601.2	657.1	29.1	18.5	10.6	10.6	15.0	28.3	7.1	3.5	2.6
77.5°	363.0	144.0	16.8	11.5	7.1	10.6	17.7	22.1	4.4	1.8	0.0
80°	88.3	35.3	10.6	7.1	4.4	7.9	13.2	12.4	0.9	0.0	0.0
82.5°	29.1	12.4	4.4	3.5	0.9	2.6	6.2	3.5	0.0	0.0	0.0
85°	12.4	7.1	1.8	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
87.5°	7.9	2.6	0.0	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)