

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: P322839

Luminaire Tested: **GAN-SA5B-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322839
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-SA5B-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA 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: 18853 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

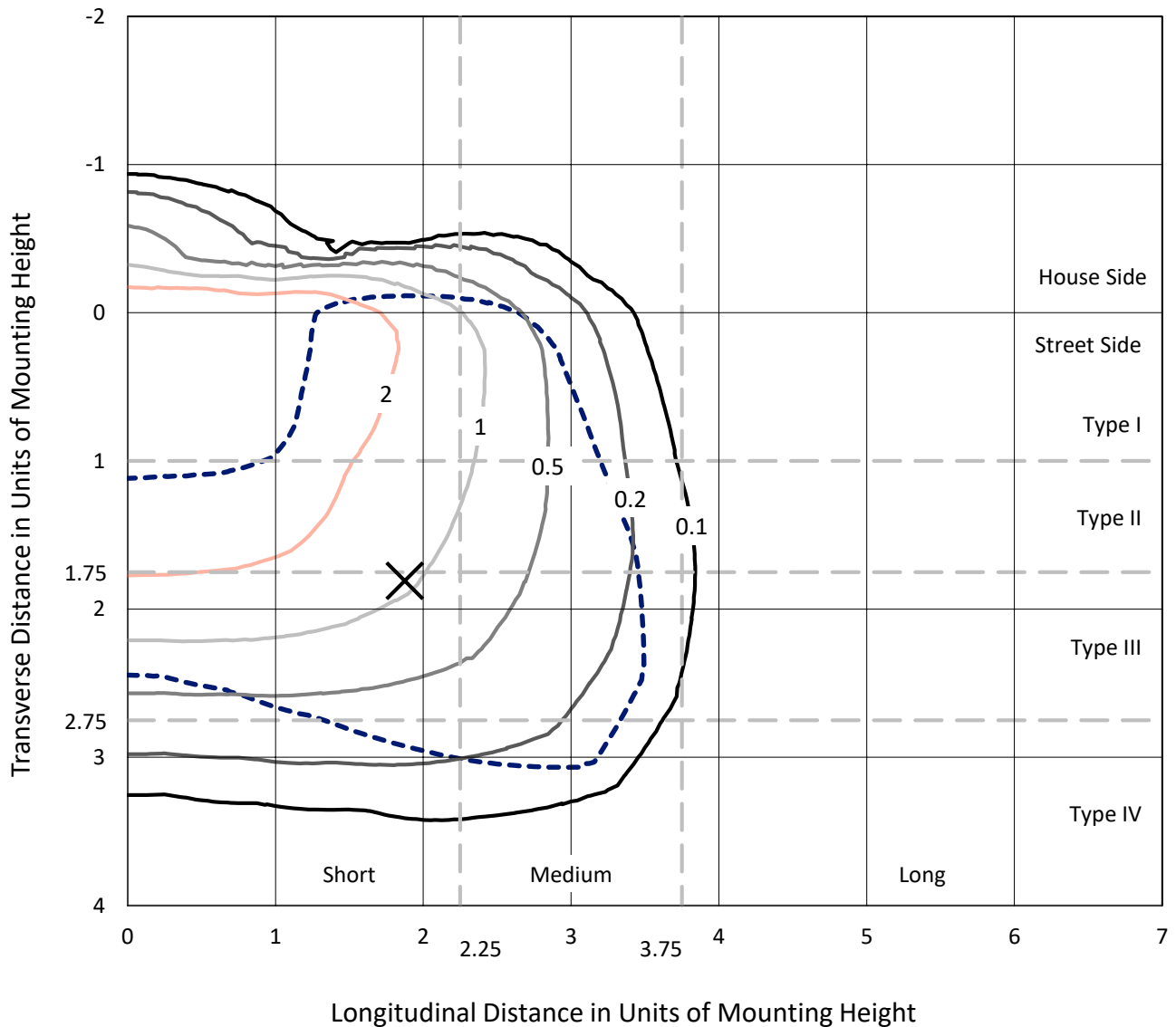
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

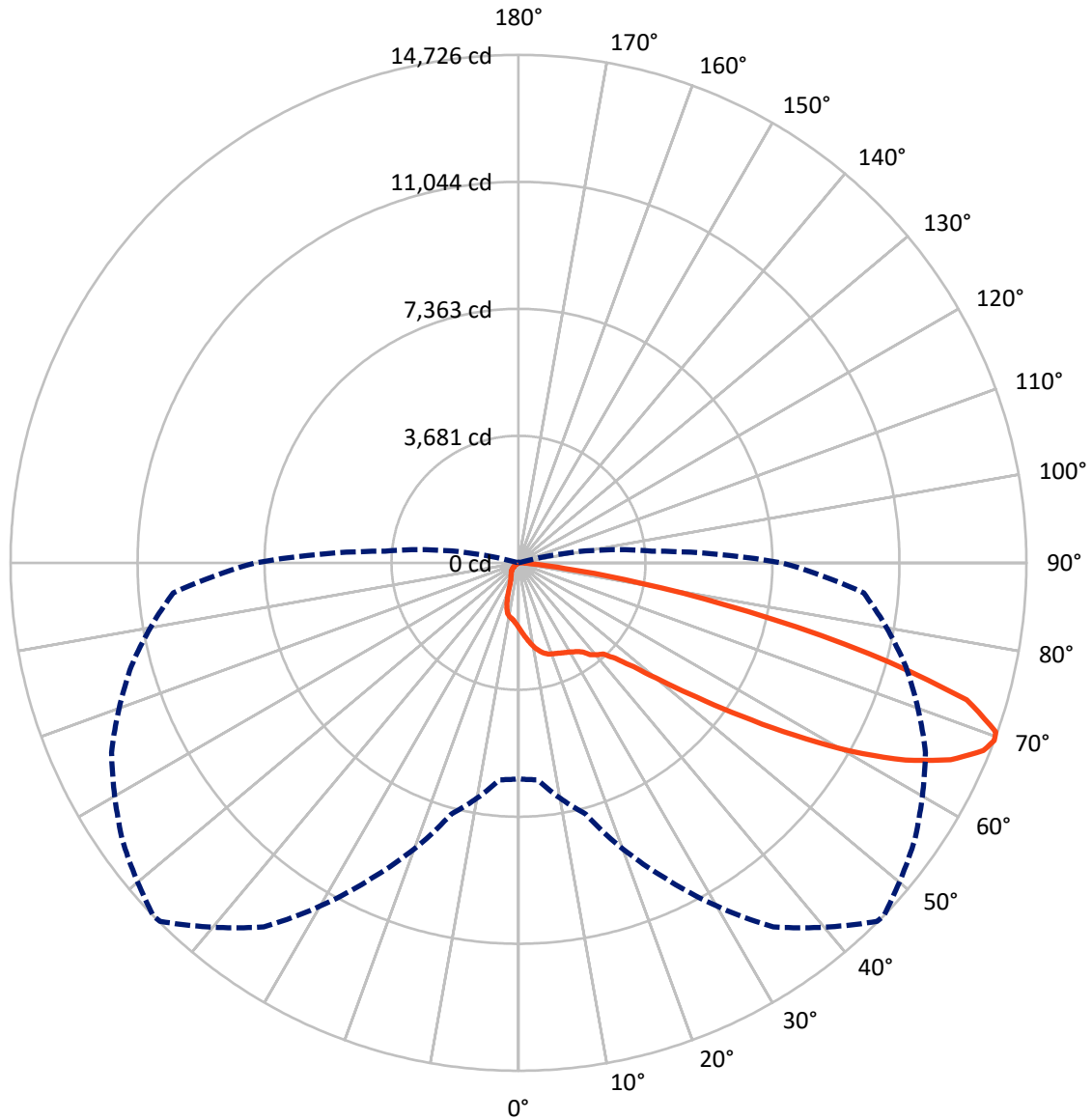
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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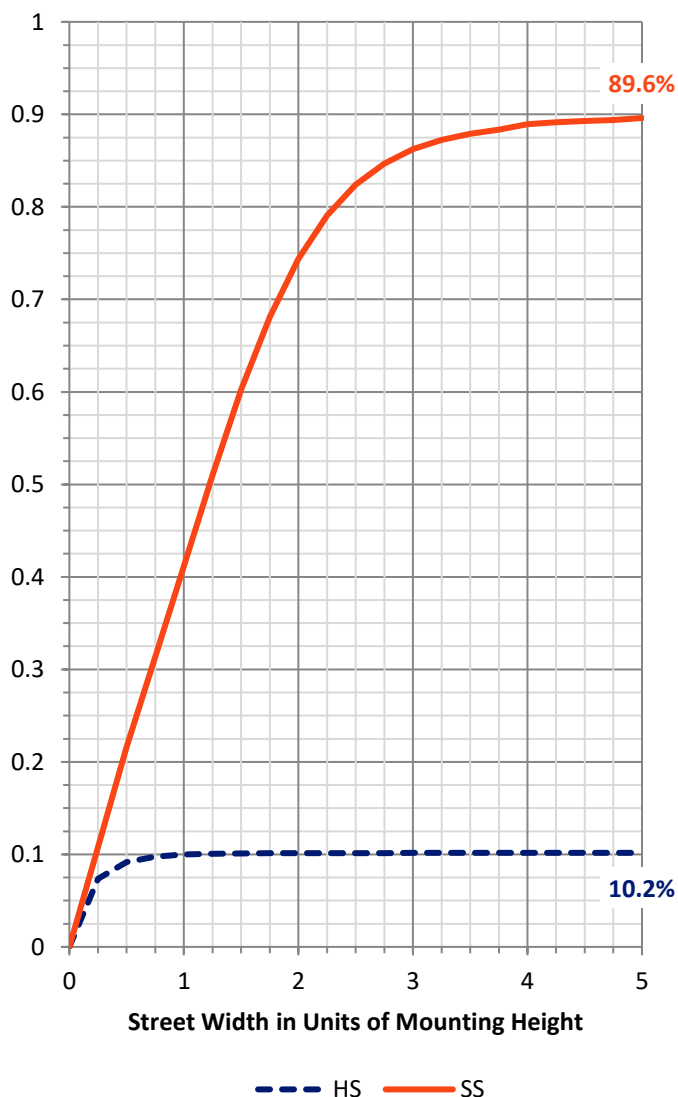
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1934.8	0.0	1934.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	16918.2	0.0	16918.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	18853.0	0.0	18853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.0	1.0
10°-20°	570.4	3.0
20°-30°	897.1	4.8
30°-40°	1286.4	6.8
40°-50°	2223.4	11.8
50°-60°	4392.5	23.3
60°-70°	6138.9	32.6
70°-80°	2965.7	15.7
80°-90°	190.6	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°	18853.0	100.0
0°-180°	18853.0	100.0

Coefficient of Utilization



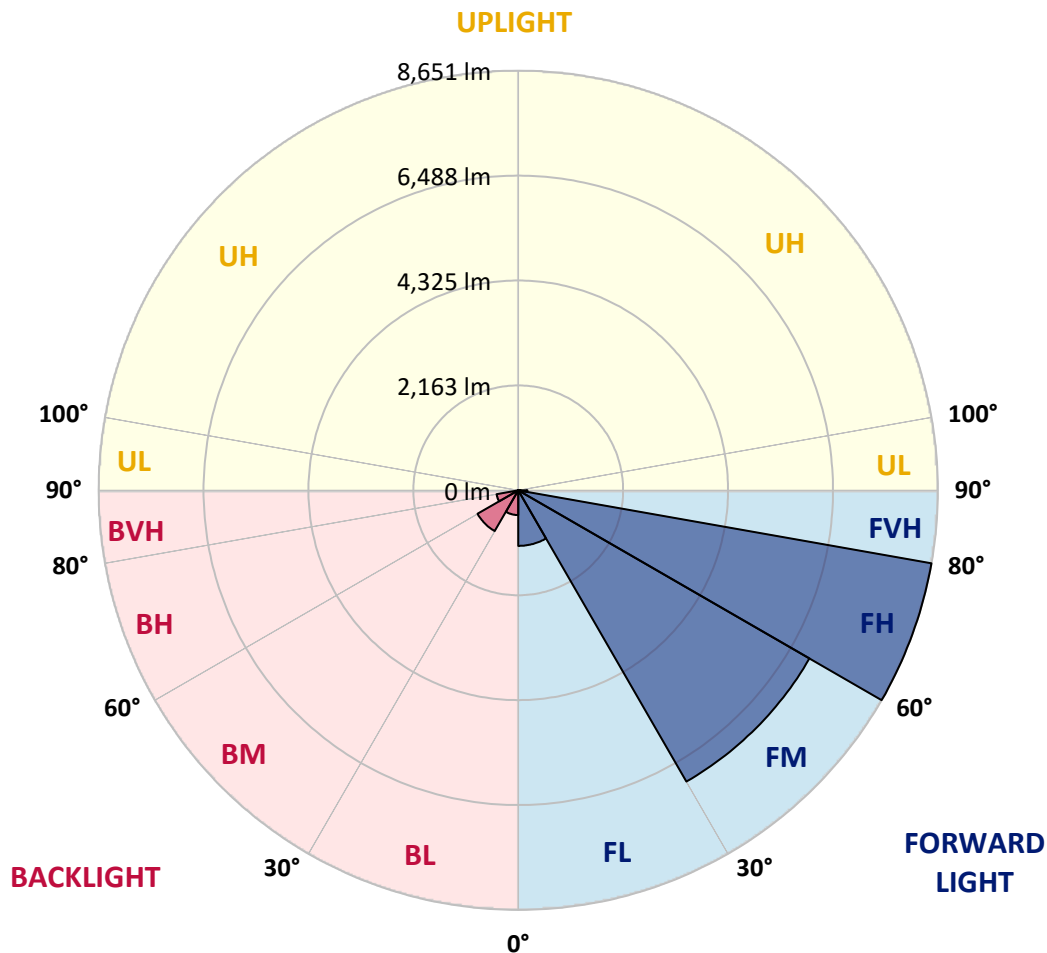
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1145.5	6.1			
FM (30°-60°)	6932.7	36.8			
FH (60°-80°)	8650.9	45.9			G4/12000
FVH (80°-90°)	189.0	1.0			G2/225
BL (0°-30°)	510.0	2.7	B2/1000		
BM (30°-60°)	969.6	5.1	B1/1000		
BH (60°-80°)	453.7	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°	1889.0	1889.0	1889.0	1889.0	1889.0	1889.0	1889.0	1889.0	1889.0	1889.0	1889.0
2.5°	2098.5	2095.8	2083.5	2078.2	2048.1	2030.4	2023.4	2001.3	1969.4	1937.6	1902.3
5°	2337.2	2336.3	2313.3	2291.2	2234.6	2181.6	2171.9	2120.6	2049.0	1981.8	1914.6
7.5°	2581.1	2569.6	2546.7	2504.2	2422.0	2337.2	2329.2	2256.7	2155.1	2057.8	1961.5
10°	2788.0	2780.9	2750.9	2686.3	2590.0	2493.6	2483.9	2394.6	2279.7	2160.4	2037.5
12.5°	2948.9	2943.6	2903.8	2823.3	2720.8	2620.9	2607.7	2528.1	2405.2	2271.8	2126.8
15°	3047.0	3044.3	2995.7	2910.0	2809.2	2722.6	2711.1	2641.2	2527.2	2387.5	2224.0
17.5°	3070.0	3070.8	3020.5	2933.8	2850.7	2788.9	2780.0	2727.0	2631.5	2492.7	2321.3
20°	3018.7	3029.3	2984.2	2909.1	2857.8	2825.1	2818.0	2786.2	2705.8	2574.9	2399.0
22.5°	2946.2	2951.5	2920.6	2870.2	2849.0	2855.2	2851.6	2833.9	2765.9	2645.7	2475.9
25°	2902.0	2902.0	2883.4	2841.0	2855.2	2893.2	2894.1	2890.5	2836.6	2732.3	2569.6
27.5°	2900.2	2894.9	2873.7	2841.9	2880.8	2939.1	2942.7	2966.5	2932.9	2837.5	2686.3
30°	2971.0	2964.8	2919.7	2878.1	2927.6	2990.4	2999.2	3051.4	3034.6	2951.5	2816.3
32.5°	3136.3	3114.2	3014.3	2946.2	2983.3	3058.5	3070.0	3153.0	3179.6	3092.1	2941.8
35°	3362.5	3292.7	3148.6	3075.3	3078.8	3157.5	3168.1	3290.1	3368.7	3221.1	3039.0
37.5°	3674.6	3640.1	3405.9	3209.6	3225.5	3344.9	3375.8	3508.4	3486.3	3291.8	3149.5
40°	4358.8	4304.8	4055.6	3586.2	3366.1	3496.9	3506.6	3577.3	3579.1	3451.8	3379.3
42.5°	5290.4	5268.3	5005.8	4269.5	3642.8	3598.6	3616.2	3735.6	3869.0	3789.5	3786.0
45°	6322.0	6310.5	6032.1	5176.4	4202.3	3931.8	3953.9	4113.9	4369.4	4387.0	4499.3
47.5°	7152.0	7146.7	6986.7	6188.5	5058.8	4496.7	4503.7	4673.4	5122.5	5344.4	5523.8
50°	7908.7	7934.3	7807.9	7283.7	6225.7	5381.5	5364.7	5477.8	6199.1	6562.4	6785.2
52.5°	8960.6	8996.8	8642.4	8305.6	7449.9	6479.4	6466.1	6584.5	7493.2	7765.5	7805.3
55°	9889.6	9827.8	9547.5	9450.3	8942.9	7835.3	7831.8	7936.1	8744.9	8860.7	8934.1
57.5°	10299.8	10275.9	10411.2	10633.9	10506.6	9437.9	9430.0	9350.4	9864.9	9877.3	10102.7
60°	10558.8	10587.9	11002.5	11689.3	12006.7	11162.5	11111.2	10626.0	10934.5	10907.1	11148.4
62.5°	10364.3	10421.8	11167.8	12312.5	13129.3	12667.9	12595.4	11794.5	11848.5	11753.9	11978.4
65°	9331.9	9421.1	10643.6	12195.0	13686.2	13844.4	13771.0	12826.1	12574.2	12418.6	12294.0
67.5°	7577.2	7630.3	8906.7	11172.2	13435.1	14546.3	14531.2	13730.4	13122.2	12306.3	11339.3
69°	6261.9	6314.1	7542.7	10095.6	12882.7	14696.5	14725.7	14020.3	13017.9	11623.9	10047.0
70°	5303.7	5359.4	6504.1	9172.7	12241.8	14626.7	14678.9	13992.9	12719.1	10833.7	8912.9
72.5°	2781.8	2829.5	4004.3	6319.4	9979.8	13430.7	13589.0	12810.2	10781.5	7868.0	5270.1
75°	874.2	901.6	1563.7	3303.3	6832.9	10443.0	10479.2	10048.7	7655.9	4327.8	2194.8
77.5°	333.2	325.3	520.6	1217.2	3454.5	6575.7	6797.6	6279.6	4017.6	1530.1	506.5
80°	179.4	180.3	270.5	503.9	1478.0	3379.3	3566.7	3043.4	1427.6	477.3	116.7
82.5°	77.8	81.3	152.0	267.0	678.9	1246.4	1340.1	1115.5	545.4	320.9	43.3
85°	16.8	18.6	73.4	145.0	276.7	350.0	366.8	361.5	347.4	249.3	16.8
87.5°	0.0	0.0	32.7	52.2	69.8	79.6	69.8	91.0	191.8	168.0	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°	1889.0	1889.0	1889.0	1889.0	1889.0	1889.0	1889.0	1889.0	1889.0	1889.0	1889.0
2.5°	1890.8	1874.9	1847.5	1817.4	1796.2	1774.1	1756.4	1748.5	1739.6	1733.4	1741.4
5°	1887.2	1856.3	1803.3	1752.0	1714.9	1684.8	1660.1	1650.3	1640.6	1633.5	1632.7
7.5°	1918.2	1874.9	1793.5	1718.4	1660.9	1620.3	1586.7	1572.5	1561.1	1555.8	1551.3
10°	1977.4	1921.7	1813.0	1714.9	1640.6	1571.7	1499.2	1443.5	1407.2	1390.5	1384.3
12.5°	2054.3	1984.5	1850.1	1733.4	1625.6	1493.0	1339.2	1206.6	1120.8	1092.6	1075.8
15°	2144.5	2057.8	1898.7	1757.3	1570.8	1328.6	1067.8	894.6	815.0	799.1	781.4
17.5°	2231.1	2135.6	1957.1	1761.7	1450.6	1061.6	782.3	664.7	633.8	644.4	647.1
20°	2307.1	2212.5	2014.5	1722.8	1232.2	796.4	605.5	576.3	587.8	608.2	611.7
22.5°	2384.0	2286.8	2067.6	1620.3	952.9	604.6	545.4	552.5	564.0	584.3	587.8
25°	2477.7	2376.9	2117.1	1432.0	715.1	514.5	518.0	528.6	540.1	558.7	560.4
27.5°	2585.6	2491.0	2149.8	1187.1	530.4	472.9	484.4	500.3	511.8	529.5	533.0
30°	2728.8	2641.2	2160.4	933.5	444.6	435.8	441.1	460.5	477.3	493.2	495.9
32.5°	2863.1	2789.7	2125.0	704.5	411.9	401.3	401.3	412.8	432.3	447.3	450.8
35°	2986.9	2939.1	2011.9	515.3	387.2	369.5	360.7	360.7	373.0	385.4	388.9
37.5°	3150.4	3148.6	1828.9	411.0	363.3	343.0	324.4	310.3	305.8	308.5	310.3
40°	3430.6	3433.3	1590.2	368.6	343.0	315.6	287.3	261.6	237.8	229.8	228.9
42.5°	3868.2	3828.4	1340.1	348.3	325.3	287.3	244.9	210.4	173.3	161.8	160.9
45°	4562.9	4326.9	1074.9	329.7	306.7	255.5	202.4	155.6	125.5	116.7	116.7
47.5°	5575.1	4981.9	832.7	309.4	282.0	219.2	152.9	112.3	91.9	87.5	88.4
50°	6621.7	5623.7	638.2	283.7	251.9	181.2	113.1	81.3	69.8	69.8	70.7
52.5°	7549.8	6093.9	497.7	256.3	214.8	142.3	85.7	63.6	58.3	57.5	58.3
55°	8418.7	6397.1	381.0	224.5	170.6	106.1	65.4	52.2	48.6	46.8	46.0
57.5°	9256.7	6547.4	285.5	181.2	123.8	76.9	52.2	44.2	40.7	38.0	37.1
60°	9814.5	6425.4	196.2	133.5	85.7	55.7	43.3	38.0	33.6	30.9	30.1
62.5°	10129.2	6092.2	126.4	96.4	61.0	41.5	34.5	31.8	25.6	23.0	23.0
65°	10001.9	5542.4	88.4	68.9	44.2	30.9	25.6	25.6	18.6	15.0	14.1
67.5°	8863.4	4682.3	67.2	51.3	31.8	23.0	19.4	22.1	11.5	7.1	7.1
69°	7625.8	3880.5	57.5	42.4	26.5	18.6	16.8	20.3	8.0	5.3	4.4
70°	6627.9	3347.5	52.2	37.1	22.1	15.9	15.0	19.4	8.0	4.4	3.5
72.5°	3965.4	1866.9	39.8	26.5	14.1	12.4	12.4	22.1	8.0	4.4	3.5
75°	1602.6	657.7	29.2	18.6	10.6	10.6	15.0	28.3	7.1	3.5	2.7
77.5°	363.3	144.1	16.8	11.5	7.1	10.6	17.7	22.1	4.4	1.8	0.0
80°	88.4	35.4	10.6	7.1	4.4	8.0	13.3	12.4	0.9	0.0	0.0
82.5°	29.2	12.4	4.4	3.5	0.9	2.7	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°	8.0	2.7	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)