

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: P318358

Luminaire Tested: **GAN-SA4B-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20997 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

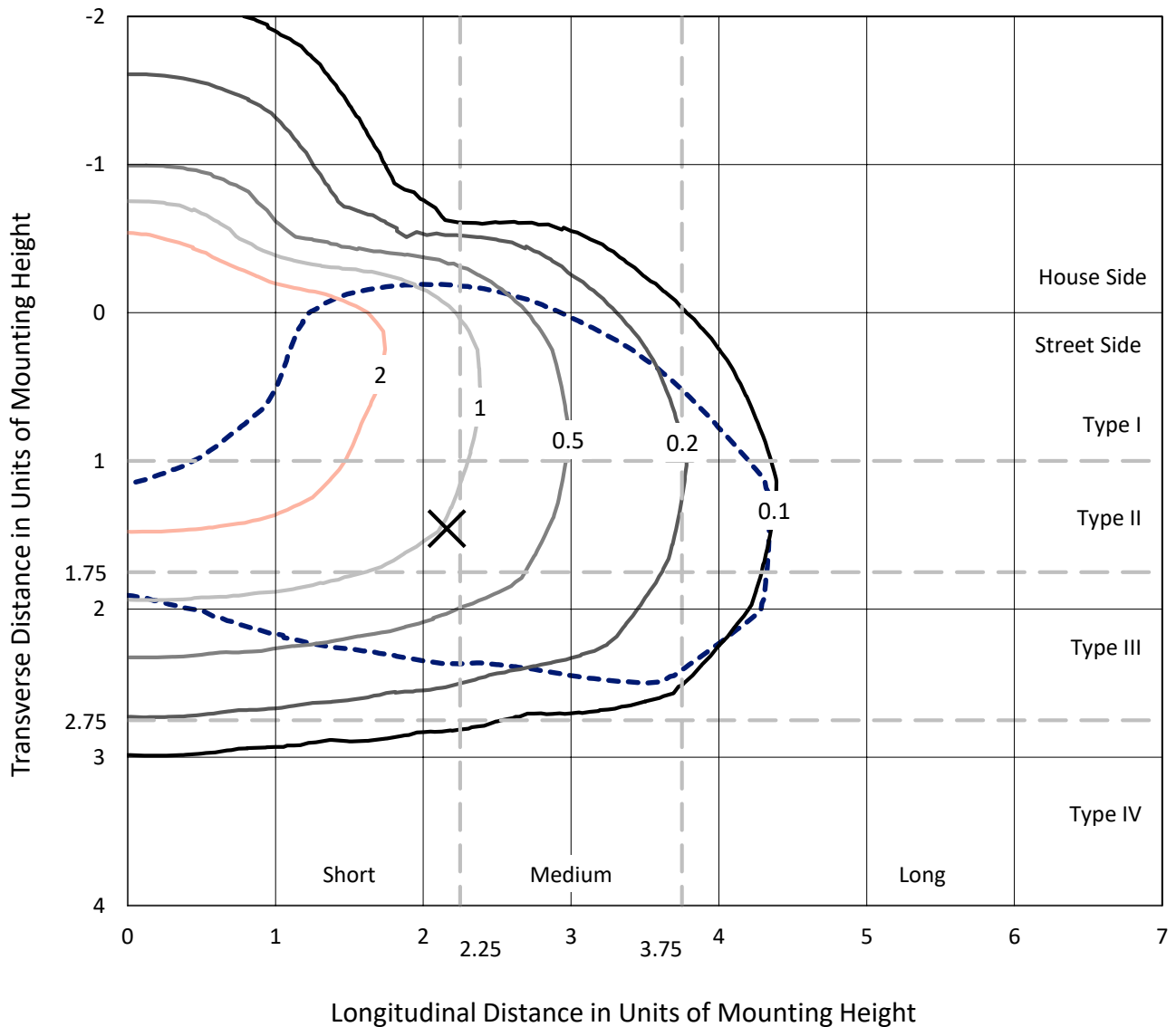
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

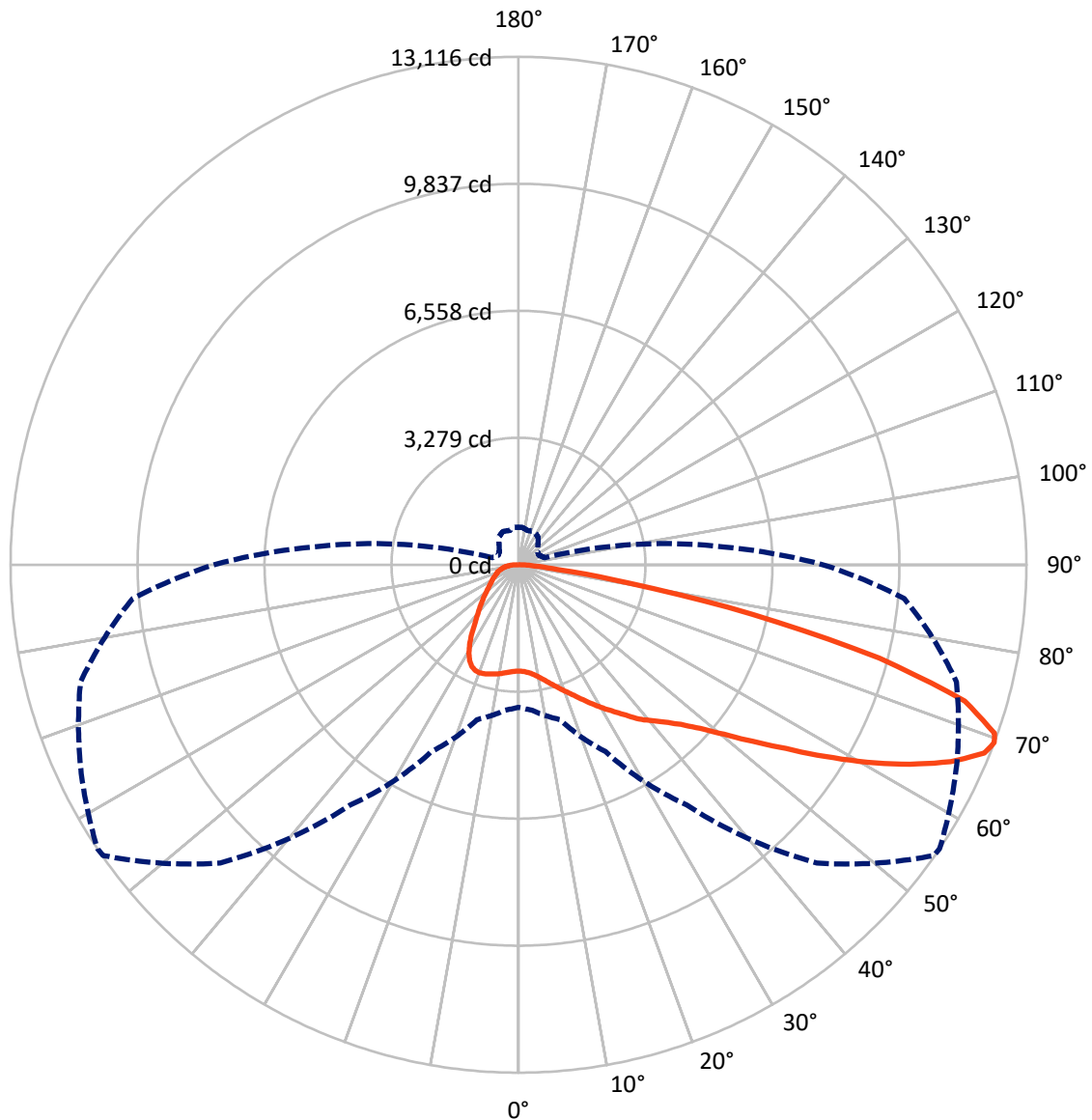
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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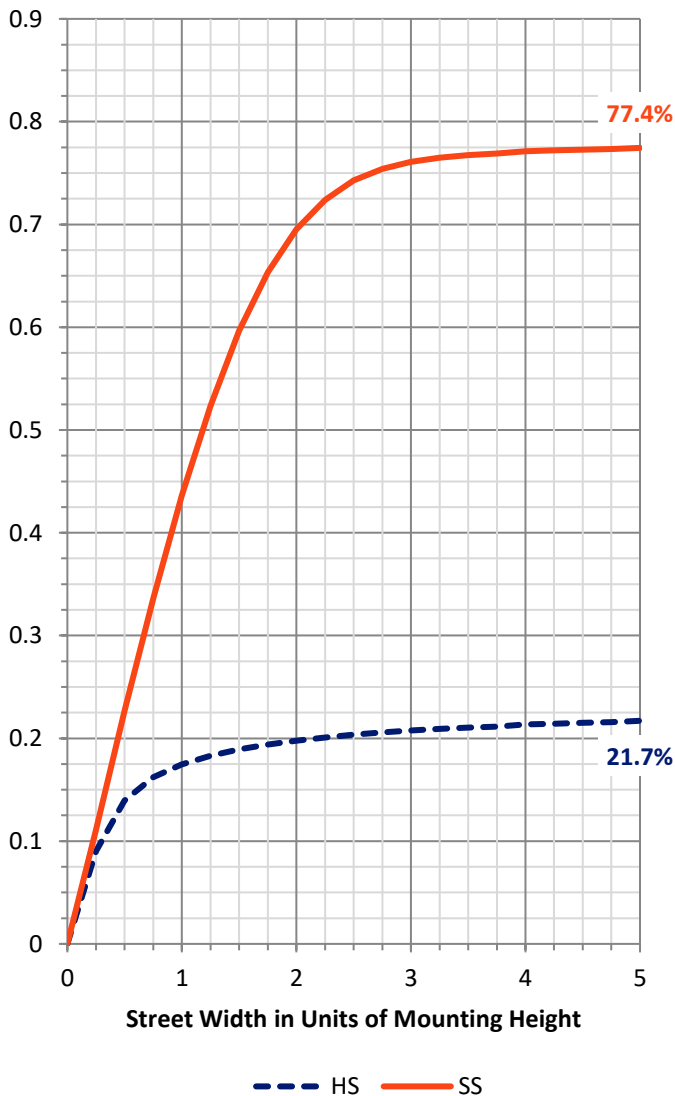
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4676.0	0.0	4676.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	16321.0	0.0	16321.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	20997.0	0.0	20997.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.6	1.3
10°-20°	866.9	4.1
20°-30°	1513.4	7.2
30°-40°	2173.9	10.4
40°-50°	3008.5	14.3
50°-60°	4407.9	21.0
60°-70°	5374.1	25.6
70°-80°	2971.1	14.2
80°-90°	411.5	2.0
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°	20997.0	100.0
0°-180°	20997.0	100.0

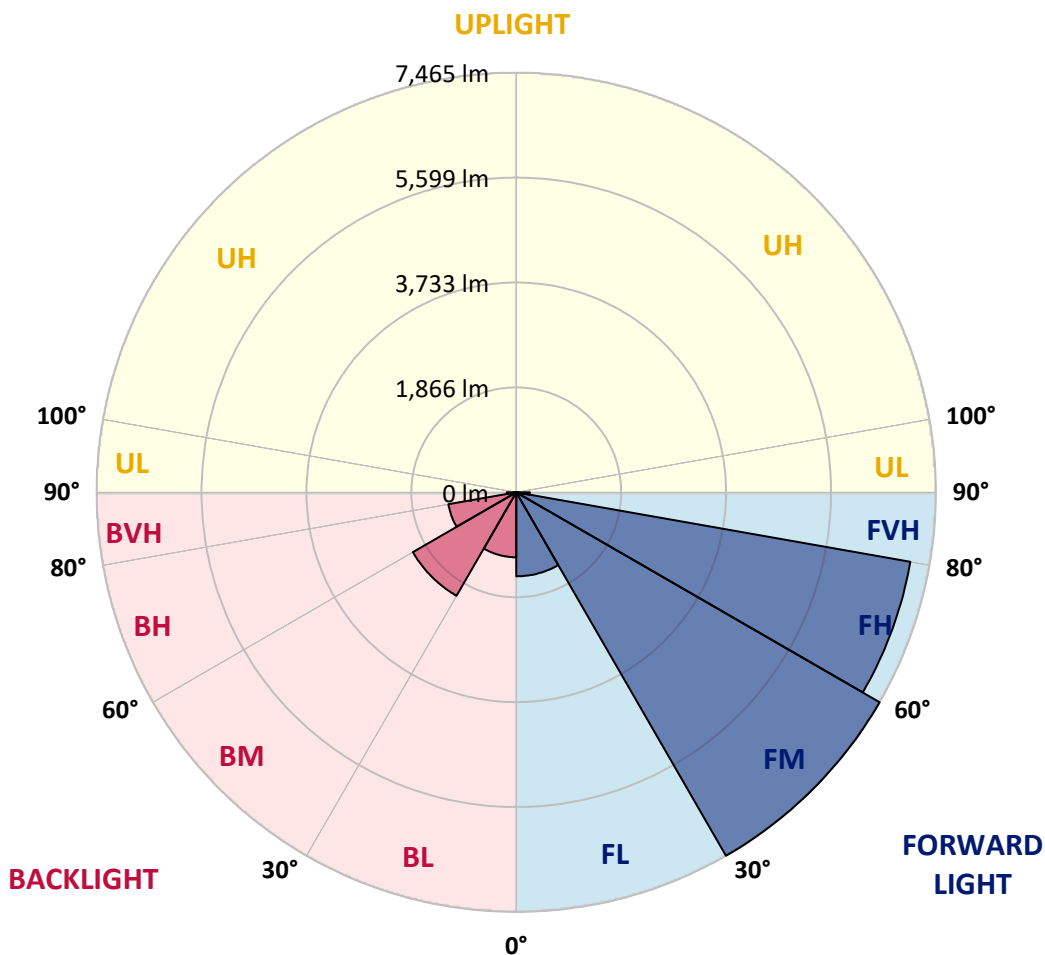


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1494.4	7.1			
FM (30°-60°)	7465.2	35.6			
FH (60°-80°)	7119.0	33.9			G3/7500
FVH (80°-90°)	242.4	1.2			G3/500
BL (0°-30°)	1155.5	5.5	B3/2500		
BM (30°-60°)	2125.1	10.1	B2/2500		
BH (60°-80°)	1226.2	5.8	B3/2500		G3/2500
BVH (80°-90°)	169.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0
2.5°	2762.4	2765.3	2763.1	2768.9	2762.4	2766.7	2763.1	2763.1	2761.0	2754.4	2747.2
5°	2805.8	2811.6	2808.0	2813.8	2805.8	2807.2	2800.7	2800.7	2794.2	2780.5	2766.0
7.5°	2873.8	2880.3	2877.4	2883.2	2872.3	2872.3	2863.7	2862.9	2849.9	2827.5	2810.9
10°	2954.8	2963.5	2960.6	2969.3	2960.6	2963.5	2954.8	2954.8	2937.4	2905.6	2884.6
12.5°	3072.7	3083.6	3075.6	3074.9	3071.3	3077.1	3069.8	3068.4	3052.5	3009.1	2980.1
15°	3230.4	3242.0	3225.3	3223.9	3203.6	3201.5	3201.5	3199.3	3189.2	3137.1	3089.3
17.5°	3412.0	3415.6	3401.1	3378.0	3351.9	3335.3	3333.1	3338.9	3338.9	3278.1	3202.2
20°	3589.9	3596.4	3584.8	3558.8	3525.5	3500.9	3483.6	3495.1	3494.4	3422.1	3314.3
22.5°	3783.7	3798.9	3781.6	3748.3	3709.2	3681.8	3651.4	3661.5	3662.2	3573.3	3424.2
25°	4034.7	4021.0	4010.1	3963.1	3907.4	3879.2	3851.0	3861.1	3858.2	3736.0	3537.8
27.5°	4256.8	4259.7	4245.2	4195.3	4130.9	4068.7	4067.3	4073.8	4063.0	3905.3	3644.9
30°	4515.0	4516.5	4496.2	4451.4	4381.2	4300.9	4282.1	4293.0	4269.8	4065.8	3757.7
32.5°	4771.8	4779.0	4756.6	4702.4	4646.0	4548.3	4510.7	4517.9	4460.1	4230.0	3874.2
35°	4996.8	5006.9	4999.7	4963.5	4902.0	4818.1	4773.3	4768.9	4697.3	4431.1	4028.2
37.5°	5226.1	5235.5	5227.5	5197.1	5172.5	5083.6	5059.7	5059.7	4935.3	4636.6	4224.3
40°	5461.9	5476.3	5466.9	5425.0	5404.0	5363.5	5306.4	5292.6	5158.1	4883.2	4544.0
42.5°	5681.0	5699.8	5737.5	5712.9	5670.2	5676.0	5561.0	5553.7	5455.4	5247.8	4945.4
45°	5992.1	6019.6	6083.2	6064.4	6055.7	6023.9	5887.2	5880.7	5843.1	5738.2	5443.8
47.5°	6331.3	6368.9	6483.9	6487.6	6580.9	6520.8	6334.9	6312.5	6321.2	6325.5	6052.1
50°	6643.8	6685.0	6873.8	6962.8	7182.7	7195.7	6898.4	6878.2	6912.2	7012.0	6761.0
52.5°	6893.3	6945.4	7181.2	7456.1	7833.0	7940.0	7592.1	7576.9	7602.2	7774.4	7562.4
55°	7076.3	7132.8	7389.6	7890.1	8491.9	8680.7	8390.6	8376.2	8392.1	8611.3	8434.0
57.5°	7119.0	7132.8	7505.3	8182.3	9048.1	9501.7	9367.9	9338.9	9260.8	9451.8	9396.1
60°	6918.7	6973.6	7409.8	8285.0	9478.5	10311.1	10389.2	10353.0	10133.9	10290.1	10245.3
62.5°	6512.2	6610.5	7053.2	8128.8	9647.1	10972.2	11391.0	11347.6	10970.0	11071.3	10855.8
65°	5848.1	5890.1	6355.2	7589.9	9433.0	11395.4	12284.3	12262.6	11787.4	11629.0	10968.6
67.5°	4660.4	4739.3	5134.2	6463.7	8557.0	11345.4	12975.1	12972.9	12321.2	11835.9	10568.6
69°	3681.8	3763.5	4139.6	5324.4	7571.8	10889.0	13090.8	13116.2	12471.7	11710.0	9997.2
70°	2935.3	3030.0	3288.3	4484.7	6697.3	10287.2	12994.6	13040.2	12442.7	11502.4	9469.9
72.5°	1249.2	1325.9	1509.6	2311.8	4081.8	7681.8	11881.4	12053.6	11772.2	10527.4	7826.4
75°	545.4	569.3	652.4	942.5	1811.9	4180.9	9307.8	9626.1	10065.9	8898.4	5830.0
77.5°	399.3	409.4	455.0	553.3	813.0	1579.0	5985.6	6170.7	7259.4	6475.3	3576.1
80°	308.9	316.1	351.5	406.5	530.9	638.7	2729.9	2889.0	4081.8	3325.9	1489.3
82.5°	245.9	251.0	275.6	299.5	366.7	387.0	906.3	1005.4	1506.7	918.6	394.2
85°	228.6	234.4	243.0	218.4	235.1	227.1	392.0	410.1	455.0	360.9	164.9
87.5°	103.4	122.2	240.9	170.0	125.1	99.8	160.6	167.8	188.8	189.5	73.1
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°	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0
2.5°	2751.6	2749.4	2753.0	2744.3	2755.2	2754.4	2750.8	2752.3	2759.5	2758.8	2759.5
5°	2768.2	2766.7	2771.1	2764.6	2777.6	2781.9	2782.7	2789.2	2797.1	2799.3	2799.3
7.5°	2810.1	2810.1	2812.3	2803.6	2812.3	2811.6	2808.0	2814.5	2822.4	2823.2	2822.4
10°	2882.5	2883.2	2879.6	2857.2	2849.9	2830.4	2812.3	2813.0	2823.2	2831.1	2833.3
12.5°	2973.6	2970.7	2954.8	2913.6	2883.2	2843.4	2824.6	2823.9	2834.0	2840.5	2842.7
15°	3077.8	3069.8	3028.6	2961.3	2907.8	2868.7	2838.4	2831.1	2825.3	2818.1	2818.8
17.5°	3176.1	3158.1	3089.3	2996.0	2939.6	2887.5	2828.9	2781.9	2749.4	2730.6	2724.8
20°	3276.0	3240.5	3141.4	3028.6	2957.0	2862.2	2749.4	2653.9	2594.6	2567.1	2562.0
22.5°	3367.1	3310.0	3189.9	3062.6	2943.2	2776.9	2599.7	2460.8	2378.3	2341.4	2344.3
25°	3456.1	3376.5	3240.5	3086.5	2873.8	2626.4	2391.3	2220.6	2125.1	2083.9	2082.5
27.5°	3534.2	3443.8	3295.5	3066.9	2744.3	2412.3	2144.7	1978.3	1898.7	1863.3	1857.5
30°	3623.9	3528.4	3368.6	2992.4	2554.8	2164.9	1903.8	1786.6	1730.2	1694.8	1688.3
32.5°	3733.1	3643.4	3428.6	2857.2	2312.5	1906.7	1715.7	1634.0	1582.6	1542.9	1535.6
35°	3892.2	3795.3	3443.8	2663.3	2046.3	1702.7	1577.6	1493.7	1424.2	1372.9	1367.8
37.5°	4091.9	3985.6	3409.1	2412.3	1788.1	1570.4	1462.6	1359.1	1268.7	1196.4	1184.8
40°	4379.8	4219.2	3312.9	2123.0	1597.8	1468.4	1350.5	1232.6	1120.4	1035.8	1019.2
42.5°	4725.5	4493.3	3165.3	1835.1	1458.2	1364.9	1239.1	1093.0	985.9	925.9	917.2
45°	5165.3	4778.3	2960.6	1583.4	1320.8	1261.5	1119.0	984.5	917.9	873.8	866.6
47.5°	5667.3	5098.0	2745.8	1378.7	1204.3	1164.6	1022.8	936.0	883.2	848.5	842.0
50°	6284.3	5459.0	2517.9	1210.9	1087.2	1048.1	977.2	909.2	867.3	840.5	834.0
52.5°	6980.1	5866.2	2353.7	1078.5	990.2	962.0	953.4	894.8	860.8	840.5	834.0
55°	7729.5	6280.7	2176.5	967.1	906.3	914.3	937.4	896.2	873.1	848.5	839.1
57.5°	8479.6	6708.9	1979.0	873.1	839.8	878.8	926.6	899.1	879.6	855.7	847.0
60°	9072.7	6980.1	1673.1	794.2	787.0	839.8	900.5	877.4	852.1	852.8	851.4
62.5°	9349.8	6965.7	1335.3	724.1	734.2	787.0	858.6	843.4	822.4	850.6	852.8
65°	9194.3	6618.5	1039.4	660.4	677.8	732.0	815.2	826.8	834.0	888.3	895.5
67.5°	8541.8	5942.9	805.1	604.7	626.4	694.4	819.5	900.5	910.0	967.1	966.4
69°	7866.9	5309.3	699.5	575.8	601.1	703.8	876.0	947.6	912.1	972.9	964.2
70°	7301.3	4808.0	643.0	556.2	589.5	720.4	913.6	946.8	901.3	953.4	938.9
72.5°	5623.2	3459.0	545.4	520.1	550.5	689.3	924.4	925.9	876.0	886.1	861.5
75°	3856.8	2185.9	476.0	470.9	491.1	621.3	889.7	884.6	810.1	795.7	775.4
77.5°	2126.6	1110.3	404.3	423.9	437.6	550.5	808.7	801.5	740.0	709.6	702.4
80°	820.3	486.1	341.4	376.9	385.5	476.7	708.9	702.4	651.0	611.9	601.1
82.5°	309.6	254.6	282.1	326.2	323.3	393.5	600.4	596.7	546.8	489.7	472.3
85°	143.2	152.6	223.5	269.1	248.1	291.5	480.3	486.8	426.0	358.0	358.0
87.5°	60.8	85.4	158.4	203.3	167.1	196.7	352.3	336.3	308.9	214.1	201.1
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)