

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: P320968

Luminaire Tested: **GAN-SA4C-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29272 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

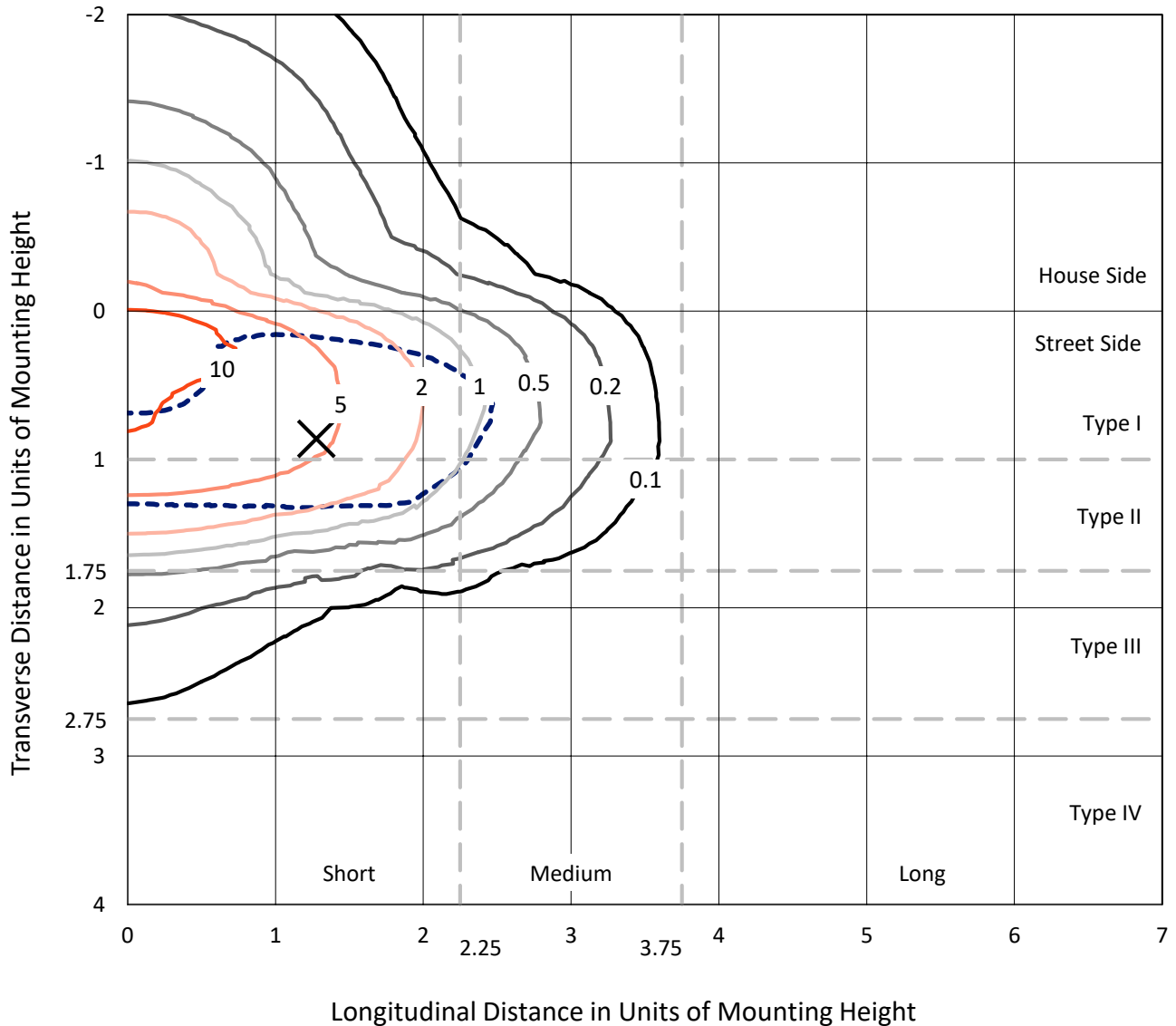
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

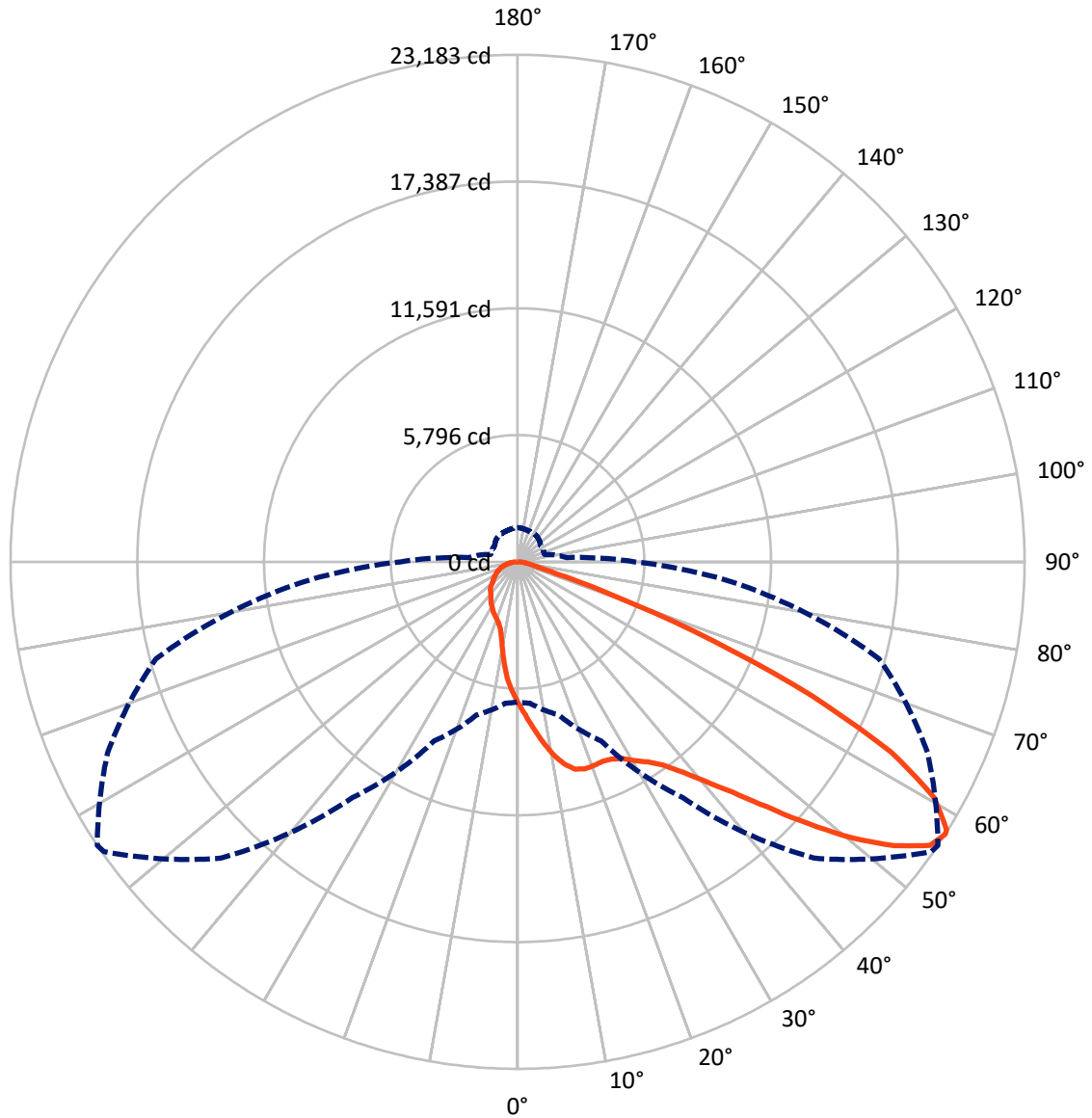
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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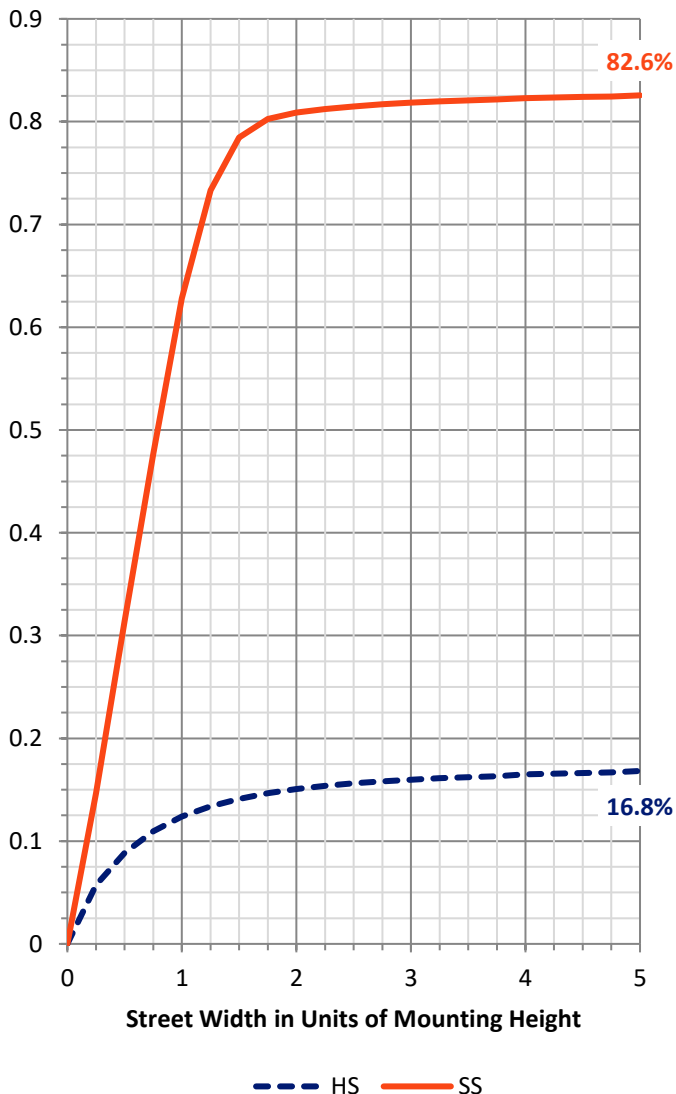
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5045.9	0.0	5045.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	24226.1	0.0	24226.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	29272.0	0.0	29272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.2	2.1
10°-20°	1753.5	6.0
20°-30°	2856.0	9.8
30°-40°	4269.5	14.6
40°-50°	6475.9	22.1
50°-60°	7258.3	24.8
60°-70°	4287.0	14.6
70°-80°	1404.6	4.8
80°-90°	347.0	1.2
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°	29272.0	100.0
0°-180°	29272.0	100.0

Coefficient of Utilization



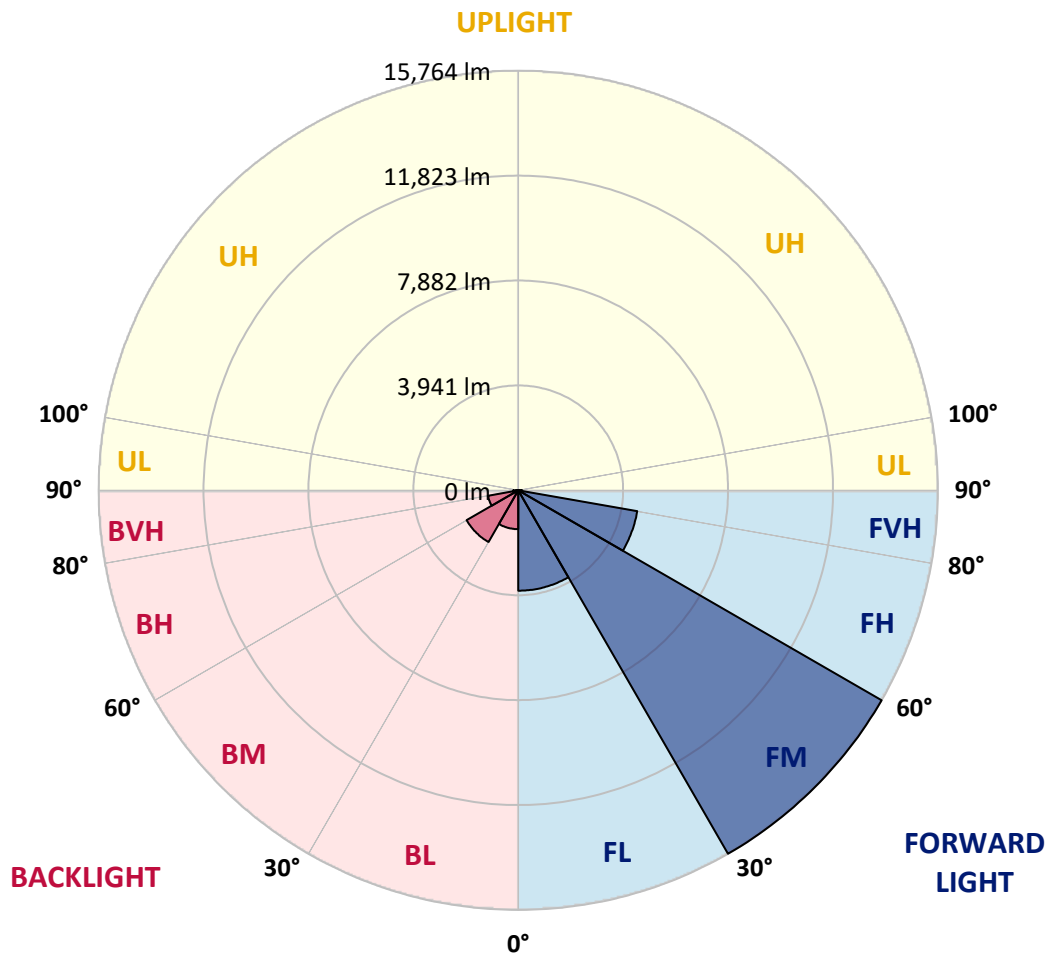
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3770.7	12.9			
FM (30°-60°)	15763.9	53.9			
FH (60°-80°)	4538.7	15.5			G2/5000
FVH (80°-90°)	152.8	0.5			G2/225
BL (0°-30°)	1459.0	5.0	B3/2500		
BM (30°-60°)	2239.7	7.7	B2/2500		
BH (60°-80°)	1152.9	3.9	B3/2500		G3/2500
BVH (80°-90°)	194.2	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6492.6	6492.6	6492.6	6492.6	6492.6	6492.6	6492.6	6492.6	6492.6	6492.6	6492.6
2.5°	7455.3	7523.7	7493.5	7388.9	7308.4	7194.7	7068.0	7029.7	6896.0	6746.1	6566.0
5°	8635.3	8601.1	8551.8	8388.8	8216.8	8016.6	7698.7	7648.4	7350.7	7011.6	6653.5
7.5°	9307.3	9304.3	9275.1	9179.5	9022.6	8761.0	8377.8	8318.4	7868.7	7323.5	6768.2
10°	9209.7	9202.7	9250.9	9350.5	9397.8	9343.5	9020.6	8961.2	8408.9	7668.5	6901.0
12.5°	8655.4	8659.4	8736.9	8946.1	9230.8	9572.8	9520.5	9491.4	8969.3	8058.9	7061.9
15°	8223.8	8232.9	8294.3	8476.3	8812.3	9433.0	9824.3	9834.4	9511.5	8489.4	7250.1
17.5°	8034.7	8053.8	8082.0	8209.8	8517.6	9154.4	9896.8	9951.1	9986.3	8936.1	7431.1
20°	8095.1	8113.2	8121.2	8202.7	8455.2	8985.4	9846.5	9944.1	10350.5	9356.6	7612.2
22.5°	8365.7	8376.7	8381.8	8402.9	8599.1	9033.6	9813.3	9915.9	10614.0	9733.8	7749.0
25°	8814.3	8806.3	8774.1	8746.9	8878.7	9224.8	9889.7	9987.3	10828.3	10075.8	7838.5
27.5°	9351.5	9341.5	9279.1	9204.7	9280.1	9522.5	10110.0	10187.5	11020.4	10395.7	7883.8
30°	9996.4	9970.2	9852.5	9764.0	9793.2	9969.2	10473.2	10543.6	11317.2	10758.9	7928.1
32.5°	10741.8	10713.6	10543.6	10396.7	10396.7	10543.6	10847.4	10905.8	11568.7	11169.3	7999.5
35°	11675.3	11640.1	11418.8	11172.3	11102.9	11177.4	11357.4	11398.7	12021.4	11686.4	8129.3
37.5°	12775.9	12728.6	12441.9	12111.9	11960.0	11956.0	12085.8	12170.3	12744.7	12365.4	8349.6
40°	13879.4	13846.2	13595.7	13336.2	13038.4	12942.9	13143.1	13169.2	13690.3	13208.4	8631.3
42.5°	14732.5	14726.5	14680.2	14714.4	14409.6	14216.4	14373.4	14394.5	14845.2	14120.9	8931.0
45°	15183.2	15193.2	15417.6	15914.5	16027.2	15886.3	15963.8	15969.8	16165.0	15041.3	9205.7
47.5°	14822.0	14874.3	15441.7	16553.3	17475.8	17943.6	17814.8	17889.2	17444.6	15832.0	9420.9
50°	13414.7	13479.0	14444.8	16268.6	18151.8	19934.4	19867.0	19849.9	18476.7	16411.5	9537.6
52.5°	11671.3	11721.6	12518.3	14788.8	17655.8	21034.9	21653.6	21565.1	19394.2	16845.0	9559.8
55°	9016.5	9095.0	9858.5	11835.3	15649.9	20614.4	22967.4	22887.9	20230.1	17072.4	9533.6
57°	6410.1	6492.6	7251.1	9032.6	13165.2	19158.8	23098.2	23182.7	20681.8	17110.6	9562.8
57.5°	5720.0	5804.5	6555.9	8286.2	12390.6	18632.7	22985.5	23126.3	20763.3	17104.6	9578.9
60°	2880.1	2912.3	3391.1	4625.5	7832.5	15063.5	21515.8	21878.9	20836.7	16808.8	9648.3
62.5°	1790.6	1767.5	1752.4	2130.7	3810.6	9989.3	18482.8	19181.9	19431.4	16092.6	9480.3
65°	1574.3	1531.1	1365.1	1334.9	1683.0	4851.8	13918.7	14788.8	16428.6	14963.9	9079.9
67.5°	1478.8	1436.5	1249.4	1136.8	1137.8	1923.4	8641.3	9621.1	12798.0	13055.5	8135.3
70°	1380.2	1342.0	1166.9	1034.1	968.8	1065.3	3975.6	4719.0	8342.5	10261.9	6799.4
72.5°	1253.4	1227.3	1061.3	924.5	855.1	797.7	1522.0	1797.7	4829.7	6891.9	4722.0
75°	1120.7	1096.5	954.7	823.9	739.4	627.7	857.1	923.5	2453.6	3525.9	2324.8
77.5°	974.8	960.7	849.0	728.3	660.9	520.1	606.6	638.8	1052.2	1512.0	1165.9
80°	775.6	802.8	742.4	648.9	586.5	416.5	429.6	450.7	612.6	738.4	661.9
82.5°	505.0	552.3	581.5	527.1	482.9	327.9	308.8	317.9	399.4	450.7	287.7
85°	210.2	236.4	382.3	345.0	320.9	239.4	207.2	211.3	247.5	256.5	117.7
87.5°	93.6	99.6	168.0	157.9	135.8	82.5	88.5	96.6	131.8	124.7	45.3
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°	6492.6	6492.6	6492.6	6492.6	6492.6	6492.6	6492.6	6492.6	6492.6	6492.6	6492.6
2.5°	6498.6	6414.1	6269.2	6109.3	5978.5	5873.9	5768.3	5695.8	5611.3	5566.1	5542.9
5°	6503.6	6337.6	6032.8	5720.0	5440.3	5184.8	4941.3	4754.2	4579.2	4484.6	4458.5
7.5°	6524.7	6275.3	5782.3	5267.3	4770.3	4316.6	3966.6	3747.3	3589.3	3518.9	3498.8
10°	6541.8	6201.8	5472.5	4710.0	4034.0	3574.2	3302.6	3179.9	3125.6	3116.5	3107.5
12.5°	6582.1	6126.4	5146.6	4128.5	3461.6	3143.7	3049.1	3041.1	3056.1	3078.3	3078.3
15°	6645.5	6051.9	4774.4	3629.6	3097.4	2985.7	3004.8	3049.1	3090.4	3124.6	3129.6
17.5°	6691.7	5960.4	4374.0	3230.2	2903.2	2933.4	3001.8	3064.2	3106.4	3139.6	3142.7
20°	6724.9	5818.6	3946.4	2925.4	2791.6	2885.1	2970.6	3026.0	3055.1	3088.3	3093.4
22.5°	6707.8	5628.4	3567.2	2707.1	2701.0	2814.7	2896.2	2962.6	2940.5	2908.3	2929.4
25°	6625.3	5366.9	3176.9	2544.1	2605.5	2720.2	2820.8	2776.5	2702.0	2688.0	2696.0
27.5°	6478.5	5032.9	2815.7	2393.2	2494.8	2632.6	2626.6	2582.3	2556.2	2538.1	2549.1
30°	6320.5	4670.7	2499.8	2261.4	2372.1	2485.8	2462.6	2461.6	2435.5	2406.3	2420.4
32.5°	6164.6	4306.6	2249.4	2152.8	2279.5	2294.6	2344.9	2360.0	2308.7	2247.3	2243.3
35°	6028.8	3962.5	2059.2	2054.2	2167.9	2169.9	2243.3	2222.2	2094.4	2031.1	2031.1
37.5°	5927.2	3619.5	1914.4	1965.7	2021.0	2073.3	2110.5	2023.0	2001.9	1966.7	1965.7
40°	5882.9	3317.7	1823.8	1898.3	1917.4	1983.8	1888.2	1922.4	1932.5	1914.4	1914.4
42.5°	5836.7	3055.1	1745.4	1847.0	1844.0	1834.9	1786.6	1830.9	1871.1	1872.1	1869.1
45°	5790.4	2828.8	1676.0	1737.3	1779.6	1682.0	1691.0	1738.3	1794.7	1814.8	1814.8
47.5°	5739.1	2649.7	1612.6	1621.6	1687.0	1621.6	1614.6	1650.8	1717.2	1749.4	1756.4
50°	5626.4	2488.8	1540.1	1520.0	1538.1	1560.3	1566.3	1583.4	1656.8	1708.1	1720.2
52.5°	5470.5	2344.9	1447.6	1426.5	1426.5	1510.0	1538.1	1543.2	1605.5	1666.9	1679.0
55°	5340.7	2253.4	1352.0	1348.0	1344.0	1456.7	1504.9	1513.0	1556.2	1604.5	1610.6
57°	5349.8	2246.3	1278.6	1282.6	1281.6	1402.3	1473.8	1490.9	1513.0	1554.2	1561.3
57.5°	5354.8	2251.4	1262.5	1264.5	1263.5	1387.2	1464.7	1483.8	1500.9	1544.2	1551.2
60°	5430.2	2264.4	1197.1	1175.0	1180.0	1306.8	1413.4	1437.5	1448.6	1505.9	1515.0
62.5°	5318.6	2206.1	1144.8	1091.5	1091.5	1222.3	1342.0	1380.2	1397.3	1474.8	1489.8
65°	4994.7	2042.1	1083.4	996.9	1007.0	1137.8	1256.5	1318.8	1345.0	1441.6	1457.7
67.5°	4494.7	1852.0	1018.0	912.4	922.5	1049.2	1167.9	1235.3	1276.6	1405.3	1418.4
70°	3843.8	1619.6	929.5	822.9	835.0	952.7	1063.3	1139.8	1201.1	1371.1	1375.2
72.5°	2833.8	1327.9	805.8	724.3	737.4	840.0	957.7	1046.2	1128.7	1285.6	1283.6
75°	1685.0	1038.2	669.0	624.7	633.8	729.3	862.1	969.8	1093.5	1252.4	1271.6
77.5°	1022.1	781.6	545.2	523.1	534.2	631.8	793.7	908.4	1078.4	1181.0	1175.0
80°	617.7	558.3	435.6	421.5	432.6	540.2	734.4	862.1	942.6	1009.0	1009.0
82.5°	322.9	341.0	319.9	308.8	323.9	438.6	668.0	752.5	832.9	715.2	668.0
85°	131.8	178.1	194.2	193.1	202.2	303.8	576.4	643.8	537.2	510.0	522.1
87.5°	44.3	75.4	94.6	81.5	85.5	191.1	399.4	310.8	369.2	257.5	244.5
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)