

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: P317459

Luminaire Tested: **GAN-SA5D-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40401 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

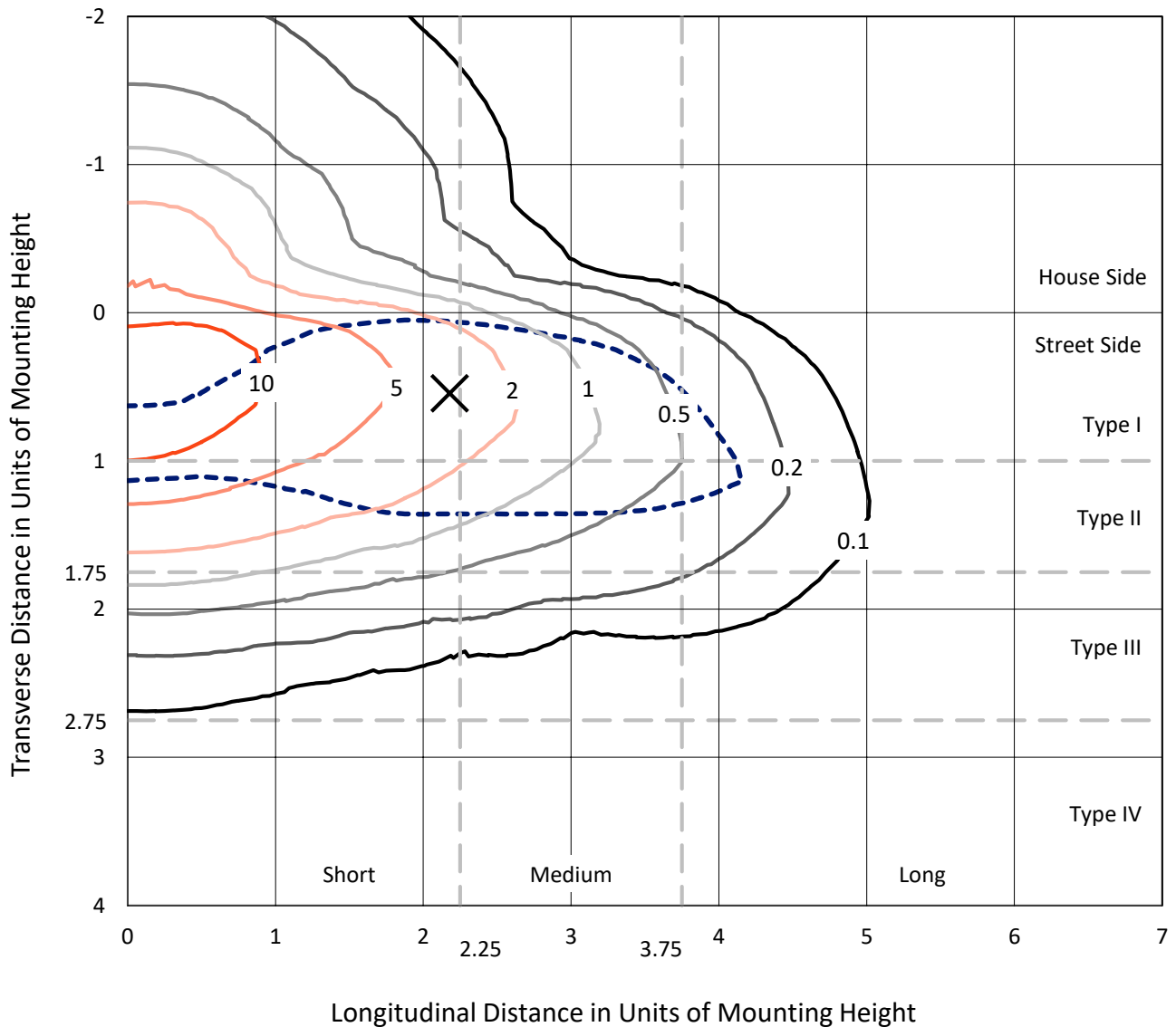
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

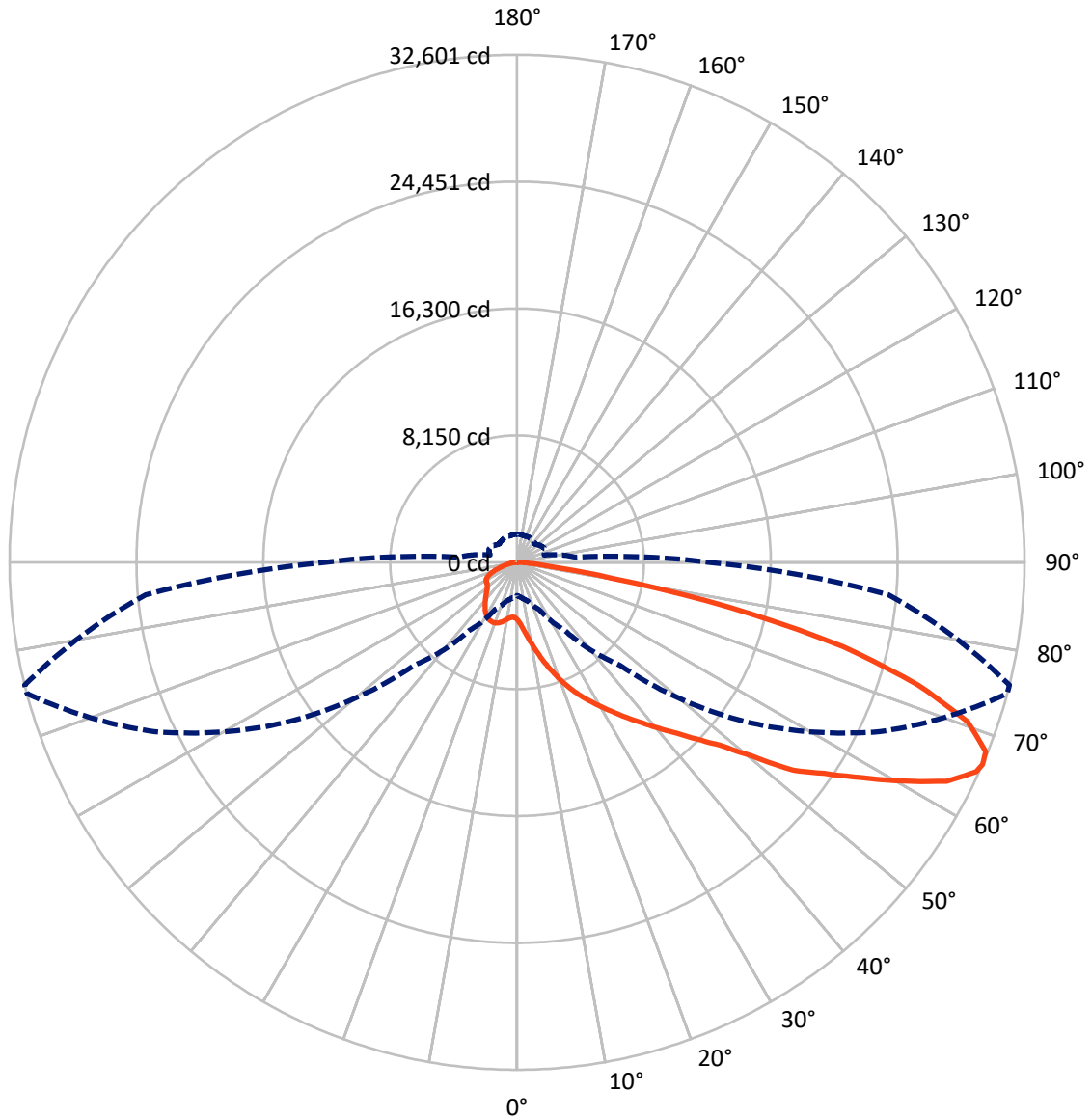
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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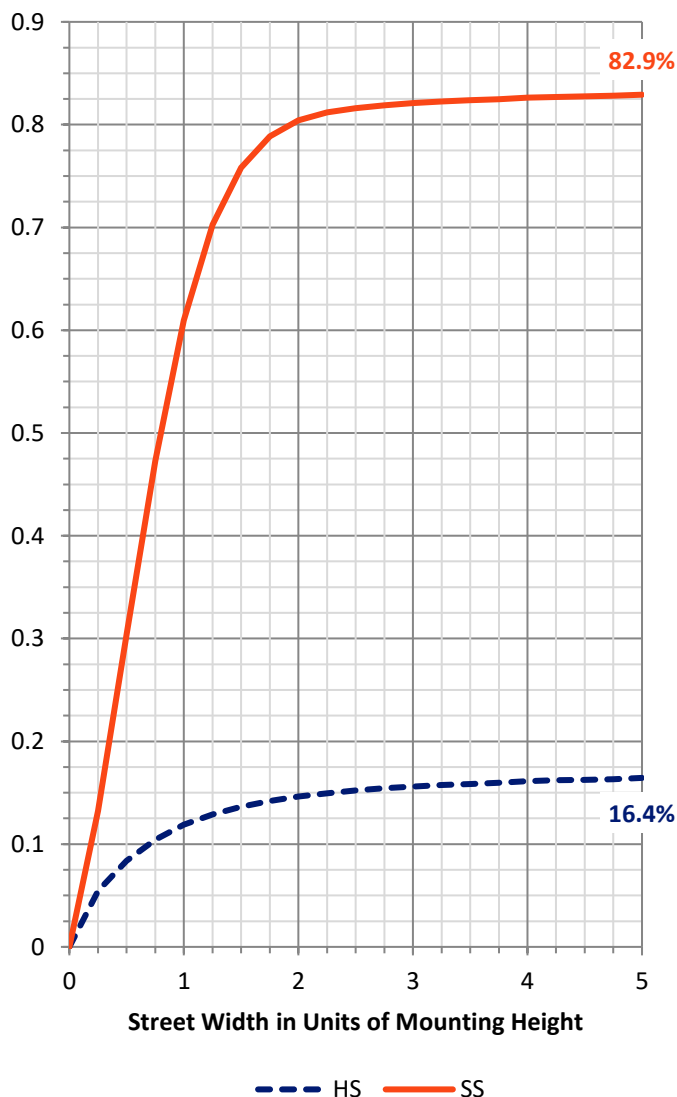
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6798.1	0.0	6798.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	33602.9	0.0	33602.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	40401.0	0.0	40401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.2	1.1
10°-20°	1761.9	4.4
20°-30°	3423.7	8.5
30°-40°	5588.3	13.8
40°-50°	7635.0	18.9
50°-60°	8893.2	22.0
60°-70°	7972.9	19.7
70°-80°	4029.2	10.0
80°-90°	650.7	1.6
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°	40401.0	100.0
0°-180°	40401.0	100.0

Coefficient of Utilization



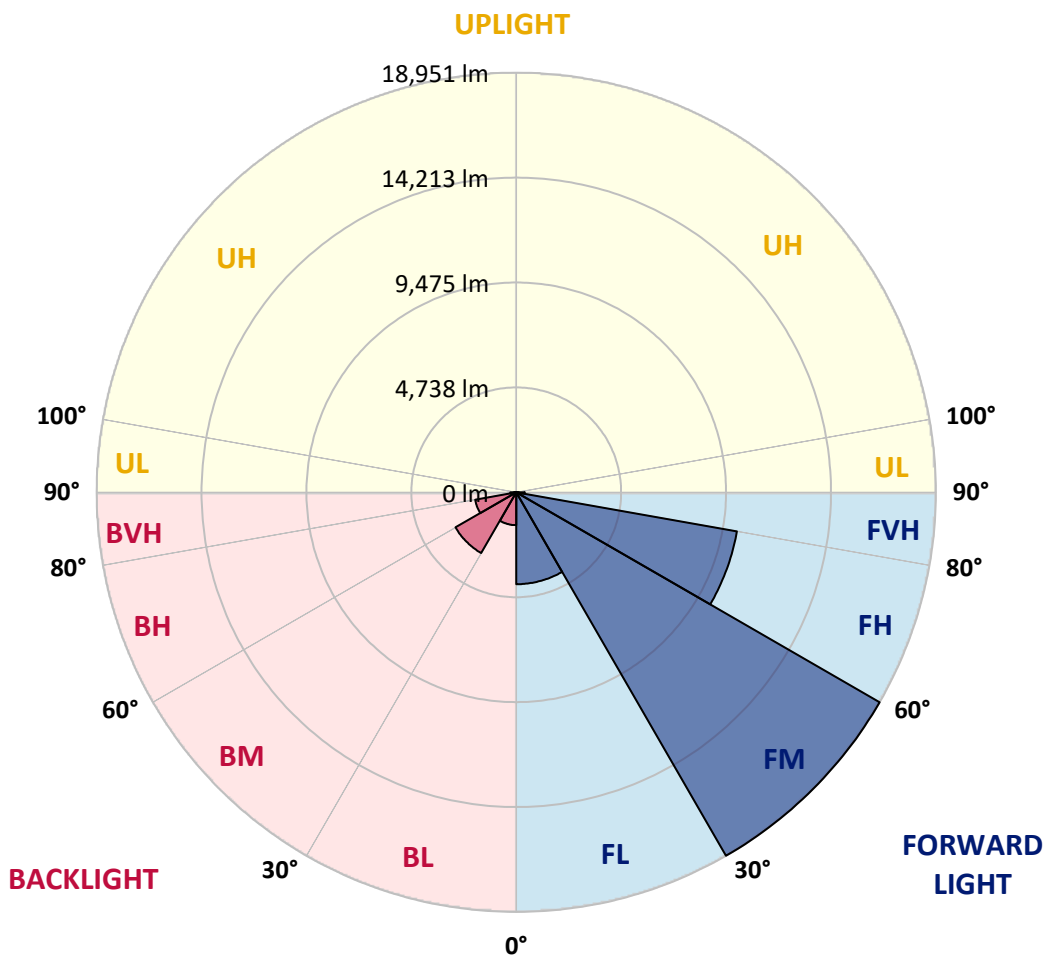
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4149.1	10.3			
FM (30°-60°)	18950.9	46.9			
FH (60°-80°)	10118.7	25.0			G4/12000
FVH (80°-90°)	384.2	1.0			G3/500
BL (0°-30°)	1482.7	3.7	B3/2500		
BM (30°-60°)	3165.6	7.8	B3/5000		
BH (60°-80°)	1883.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	266.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3689.5	3689.5	3689.5	3689.5	3689.5	3689.5	3689.5	3689.5	3689.5	3689.5	3689.5
2.5°	4897.9	4823.8	4817.0	4708.6	4683.9	4476.8	4324.6	4165.5	3984.4	3948.7	3806.1
5°	6291.4	6284.5	6189.9	6013.0	5874.4	5520.6	5170.8	4800.5	4394.5	4328.7	4007.7
7.5°	7545.0	7534.0	7461.3	7270.7	7070.4	6635.7	6136.4	5568.6	4910.2	4812.8	4280.7
10°	8496.9	8492.8	8468.1	8328.2	8158.1	7741.1	7189.8	6414.8	5509.6	5376.6	4622.2
12.5°	9232.0	9240.3	9256.7	9207.3	9126.4	8771.2	8206.1	7311.8	6148.7	6017.1	5002.1
15°	9729.9	9754.6	9839.6	9909.6	9952.1	9734.0	9186.8	8229.4	6864.7	6707.0	5423.2
17.5°	9980.9	10008.3	10155.1	10366.3	10561.1	10539.1	10104.4	9104.5	7551.9	7399.6	5875.8
20°	10197.6	10218.2	10382.8	10636.5	10980.8	11133.0	10888.9	9946.6	8304.9	8123.8	6355.9
22.5°	10825.8	10851.9	10901.2	11045.3	11349.7	11629.5	11511.6	10743.5	8994.8	8826.1	6811.2
25°	12038.3	12069.8	11962.8	11840.8	11898.4	12093.1	12115.1	11470.4	9694.3	9503.6	7300.9
27.5°	13499.0	13544.3	13361.8	13047.7	12773.4	12698.0	12671.9	12065.7	10362.2	10141.4	7785.0
30°	14929.5	15007.7	14770.4	14363.1	13859.7	13505.8	13243.9	12648.6	11020.6	10809.3	8241.8
32.5°	16327.2	16295.6	15951.4	15553.6	14963.8	14520.8	13887.1	13274.1	11761.2	11518.4	8695.8
35°	17284.5	17295.5	16975.9	16504.1	15941.8	15601.6	14748.5	13948.9	12516.9	12293.4	9211.5
37.5°	18099.2	18048.5	17686.4	17246.1	16762.0	16616.6	15756.6	14692.3	13335.8	13091.6	9760.1
40°	18370.8	18311.8	18074.5	17757.7	17369.6	17357.2	16868.9	15534.4	14261.6	14020.2	10378.7
42.5°	18206.2	18130.8	18033.4	17947.0	17827.7	17882.5	17914.1	16521.9	15279.3	15009.1	11094.6
45°	17598.6	17484.8	17553.3	17741.3	18000.5	18310.5	18857.7	17615.1	16419.1	16192.8	11935.4
47.5°	16664.6	16561.7	16775.7	17177.5	17882.5	18667.1	19750.6	18822.1	17779.7	17554.7	13132.8
50°	15350.6	15380.8	15686.6	16417.7	17483.4	18831.7	20850.6	20419.9	19757.5	19547.6	14766.3
52.5°	13194.5	13200.0	14061.3	15261.5	16775.7	18746.6	21461.0	22462.2	22458.1	22204.3	16321.7
55°	11192.0	11314.1	11995.7	13590.9	15629.0	18406.5	21887.5	23455.2	24231.5	23933.9	17771.4
57.5°	9236.2	9307.5	9953.5	11555.5	13992.8	17499.9	22325.0	24647.1	26275.2	26087.3	19573.7
60°	7011.5	7121.2	7789.1	9269.1	11899.7	15891.0	22366.2	25891.1	28717.9	28528.6	21585.8
62.5°	4550.9	4740.1	5365.6	6752.2	9367.8	13577.2	21411.6	26704.5	31033.1	30965.9	23371.5
65°	2615.6	2758.2	3193.0	4262.8	6462.8	10672.2	19141.6	26391.7	32458.2	32419.8	24039.5
66°	2136.9	2226.1	2559.3	3331.5	5332.7	9371.9	17822.2	25732.0	32599.5	32600.8	23962.7
67.5°	1709.0	1748.8	1898.3	2385.2	3935.0	7428.4	15464.4	24276.8	32423.9	32471.9	23467.6
70°	1414.1	1434.7	1481.3	1599.3	2147.9	4479.5	10976.7	20495.4	30661.4	30698.5	21535.0
72.5°	1268.7	1281.0	1298.9	1315.3	1515.6	2503.1	6704.2	16395.7	26882.8	26930.8	18590.3
75°	1149.4	1156.2	1153.5	1154.9	1271.4	1595.1	3464.6	12241.3	21736.6	21640.6	14241.0
77.5°	1009.5	1016.3	1002.6	1005.4	1124.7	1226.2	1724.1	8569.6	14668.9	13991.4	8023.7
80°	853.1	858.6	853.1	862.7	979.3	925.8	1002.6	4821.1	6486.2	6135.0	2852.9
82.5°	644.6	668.0	684.4	722.8	806.5	658.4	670.7	1877.7	1975.1	1880.4	875.1
85°	282.5	344.3	515.7	552.7	606.2	395.0	440.3	765.3	803.7	779.1	318.2
87.5°	74.1	80.9	255.1	320.9	336.0	178.3	229.1	348.4	367.6	348.4	105.6
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°	3689.5	3689.5	3689.5	3689.5	3689.5	3689.5	3689.5	3689.5	3689.5	3689.5	3689.5
2.5°	3730.7	3663.5	3542.8	3435.8	3354.9	3300.0	3245.1	3217.7	3201.2	3184.8	3187.5
5°	3850.0	3714.2	3507.1	3360.3	3278.1	3225.9	3198.5	3187.5	3180.7	3164.2	3164.2
7.5°	4029.7	3837.7	3552.4	3401.5	3337.0	3297.3	3280.8	3275.3	3267.1	3247.9	3250.6
10°	4256.0	3987.2	3647.0	3500.2	3441.3	3397.4	3374.1	3365.8	3350.7	3328.8	3331.5
12.5°	4522.1	4172.3	3771.8	3618.2	3546.9	3487.9	3449.5	3426.2	3400.1	3371.3	3372.7
15°	4812.8	4373.9	3906.2	3723.8	3626.4	3544.1	3482.4	3442.6	3401.5	3365.8	3364.5
17.5°	5107.7	4568.7	4009.1	3781.4	3649.7	3541.4	3457.7	3396.0	3345.3	3301.4	3297.3
20°	5425.9	4744.3	4066.7	3775.9	3605.9	3476.9	3365.8	3289.0	3232.8	3188.9	3182.0
22.5°	5749.6	4908.8	4076.3	3719.7	3508.5	3350.7	3234.2	3149.1	3091.5	3046.3	3029.8
25°	6045.9	5036.4	4036.5	3611.3	3372.7	3202.6	3088.8	3002.4	2955.7	2902.2	2885.8
27.5°	6316.1	5125.6	3957.0	3472.8	3220.4	3053.1	2946.1	2872.1	2821.3	2780.2	2766.5
30°	6558.8	5173.6	3826.7	3308.2	3064.1	2911.8	2821.3	2770.6	2726.7	2674.6	2665.0
32.5°	6789.3	5173.6	3659.3	3128.6	2909.1	2787.0	2733.5	2702.0	2652.6	2601.9	2588.2
35°	7019.7	5142.0	3461.8	2940.6	2766.5	2697.9	2695.1	2658.1	2582.7	2514.1	2496.3
37.5°	7262.5	5077.6	3239.6	2765.1	2649.9	2658.1	2681.4	2599.1	2492.1	2394.8	2368.7
40°	7536.8	4988.4	3009.2	2612.8	2552.5	2640.3	2644.4	2514.1	2305.6	2216.5	2193.1
42.5°	7859.1	4899.2	2795.3	2478.4	2475.7	2586.8	2574.4	2330.3	2205.5	2160.2	2147.9
45°	8282.9	4848.5	2592.3	2350.9	2415.3	2500.4	2455.1	2228.8	2176.7	2150.6	2139.6
47.5°	8950.9	4874.6	2405.7	2249.4	2355.0	2414.0	2232.9	2187.7	2150.6	2119.1	2108.1
50°	9787.5	4859.5	2254.9	2179.4	2286.4	2323.4	2132.8	2134.2	2115.0	2079.3	2062.8
52.5°	10417.1	4741.5	2157.5	2139.6	2226.1	2163.0	2069.7	2082.0	2072.4	2020.3	2002.5
55°	11024.7	4640.0	2108.1	2124.6	2182.2	1962.7	1995.6	2025.8	2016.2	1965.5	1957.2
57.5°	11780.4	4620.8	2077.9	2128.7	2145.1	1862.6	1924.3	1964.1	1957.2	1935.3	1931.2
60°	12706.2	4626.3	2050.5	2135.5	2104.0	1788.5	1857.1	1907.9	1912.0	1907.9	1905.1
62.5°	13215.1	4476.8	1981.9	2116.3	2031.3	1724.1	1787.2	1861.2	1862.6	1870.8	1869.4
65°	12783.0	4029.7	1854.4	2049.1	1909.2	1670.6	1726.8	1807.7	1787.2	1824.2	1824.2
66°	12363.3	3771.8	1791.3	2005.2	1857.1	1650.0	1707.6	1780.3	1754.2	1805.0	1805.0
67.5°	11506.1	3337.0	1677.4	1912.0	1783.0	1621.2	1685.7	1735.0	1699.4	1774.8	1769.3
70°	9939.8	2581.3	1448.4	1700.7	1661.0	1578.7	1655.5	1644.5	1592.4	1707.6	1685.7
72.5°	8380.3	1961.3	1163.1	1423.7	1475.8	1525.2	1613.0	1529.3	1463.5	1544.4	1496.4
75°	6502.6	1474.4	919.0	1106.9	1246.8	1441.5	1562.2	1396.3	1301.6	1293.4	1267.3
77.5°	3515.3	1012.2	728.3	844.9	990.3	1337.3	1527.9	1253.6	1111.0	1078.1	1057.5
80°	1392.1	658.4	529.4	640.5	692.6	1186.4	1445.6	1087.7	916.2	883.3	851.7
82.5°	574.7	389.5	341.5	429.3	451.2	1015.0	1297.5	891.5	707.7	979.3	1039.6
85°	246.9	214.0	203.0	222.2	255.1	711.8	1032.8	680.3	764.0	681.7	541.8
87.5°	74.1	90.5	86.4	85.0	93.3	170.1	550.0	378.6	561.0	212.6	159.1
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)