

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: P319223

Luminaire Tested: **GAN-SA9D-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54736 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

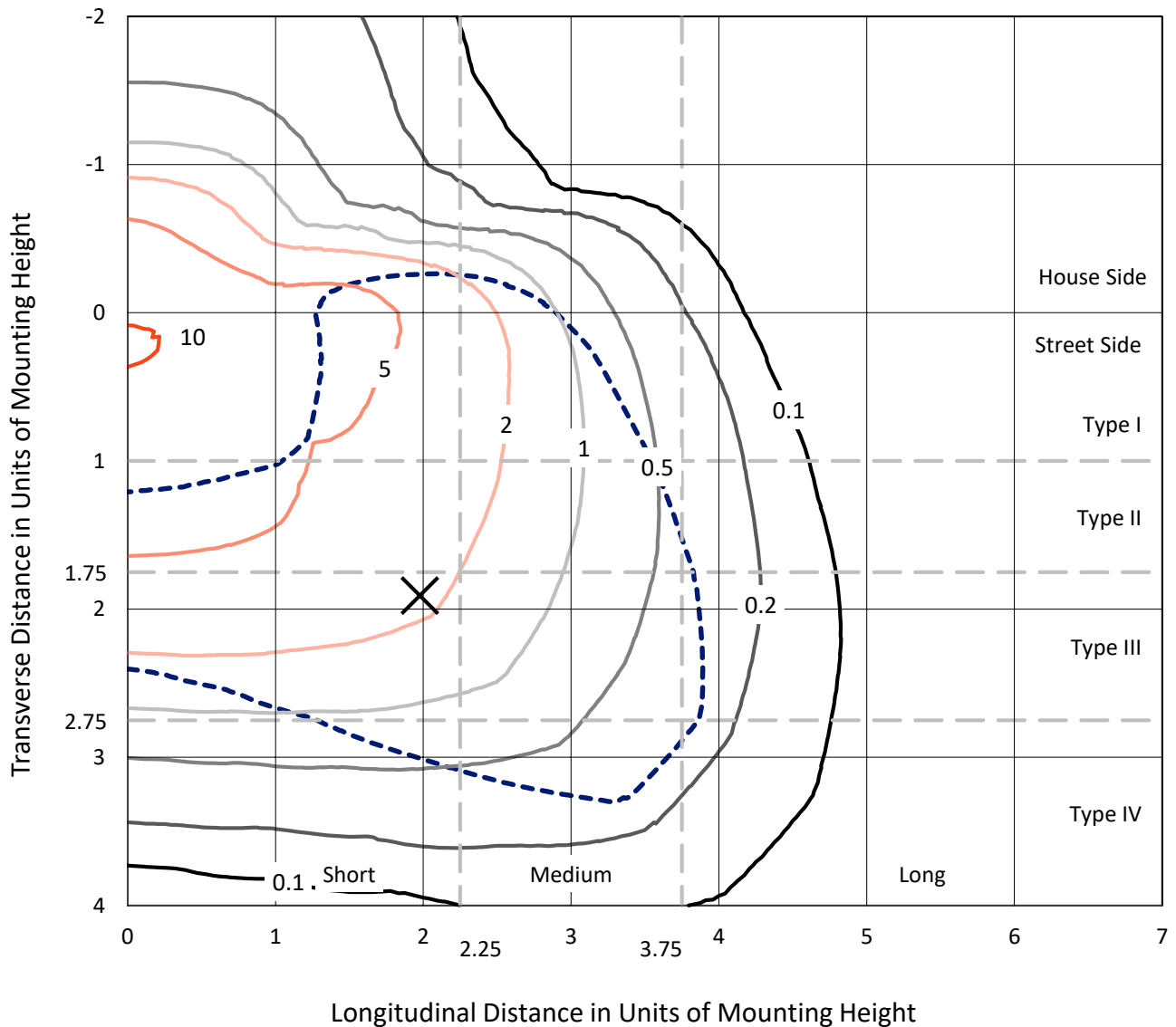
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

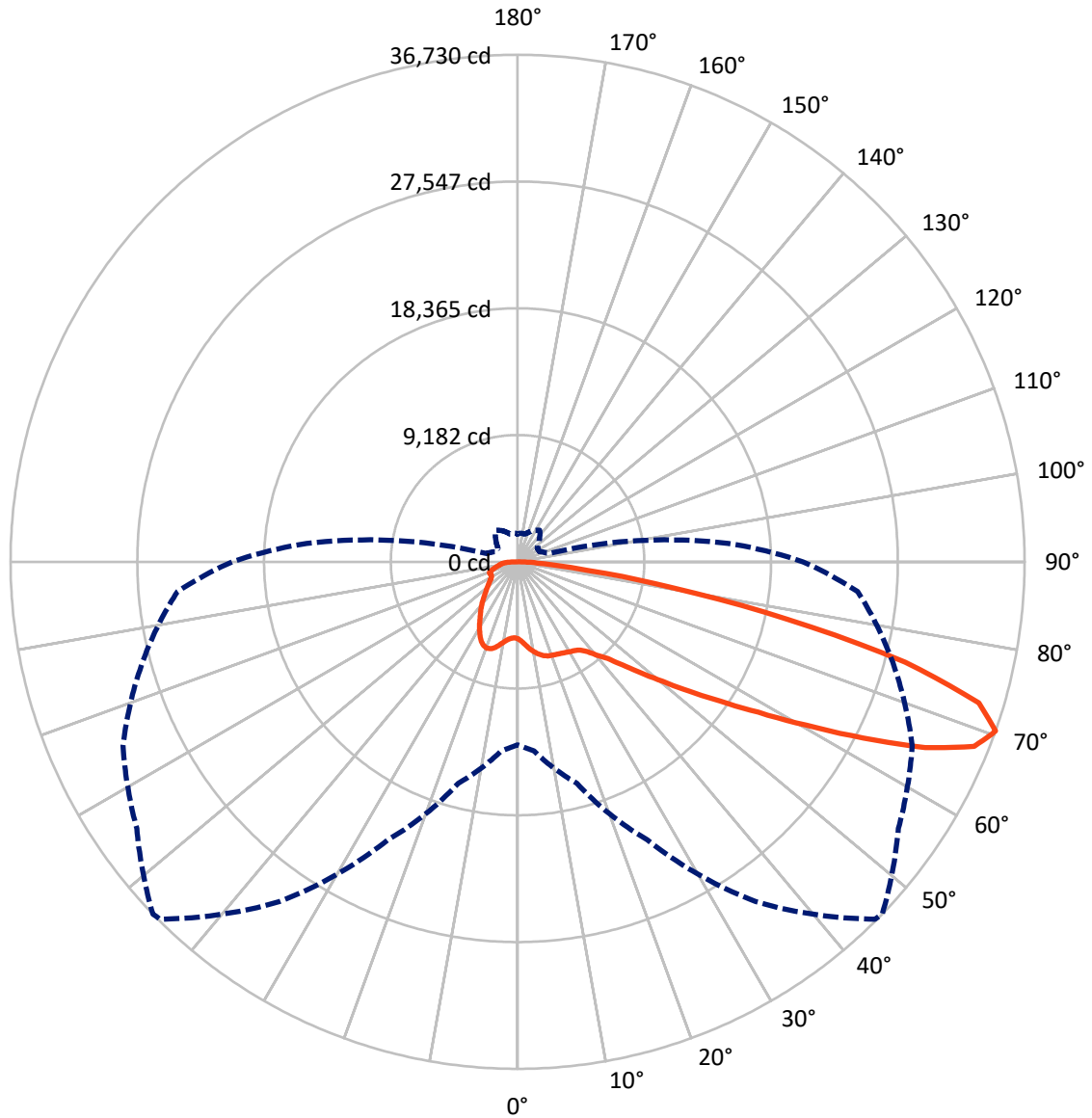
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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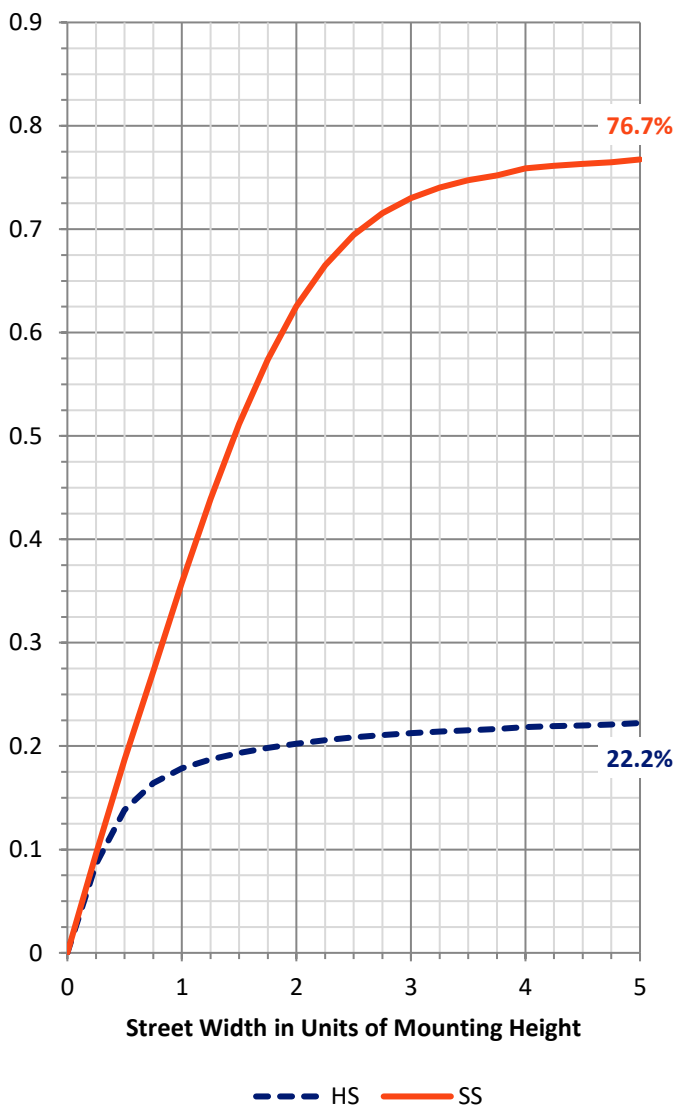
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12545.3	0.0	12545.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	42190.7	0.0	42190.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	54736.0	0.0	54736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.5	1.0
10°-20°	1894.0	3.5
20°-30°	3158.1	5.8
30°-40°	4481.5	8.2
40°-50°	6592.0	12.0
50°-60°	11163.6	20.4
60°-70°	15846.5	29.0
70°-80°	9626.9	17.6
80°-90°	1404.9	2.6
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°	54736.0	100.0
0°-180°	54736.0	100.0

Coefficient of Utilization

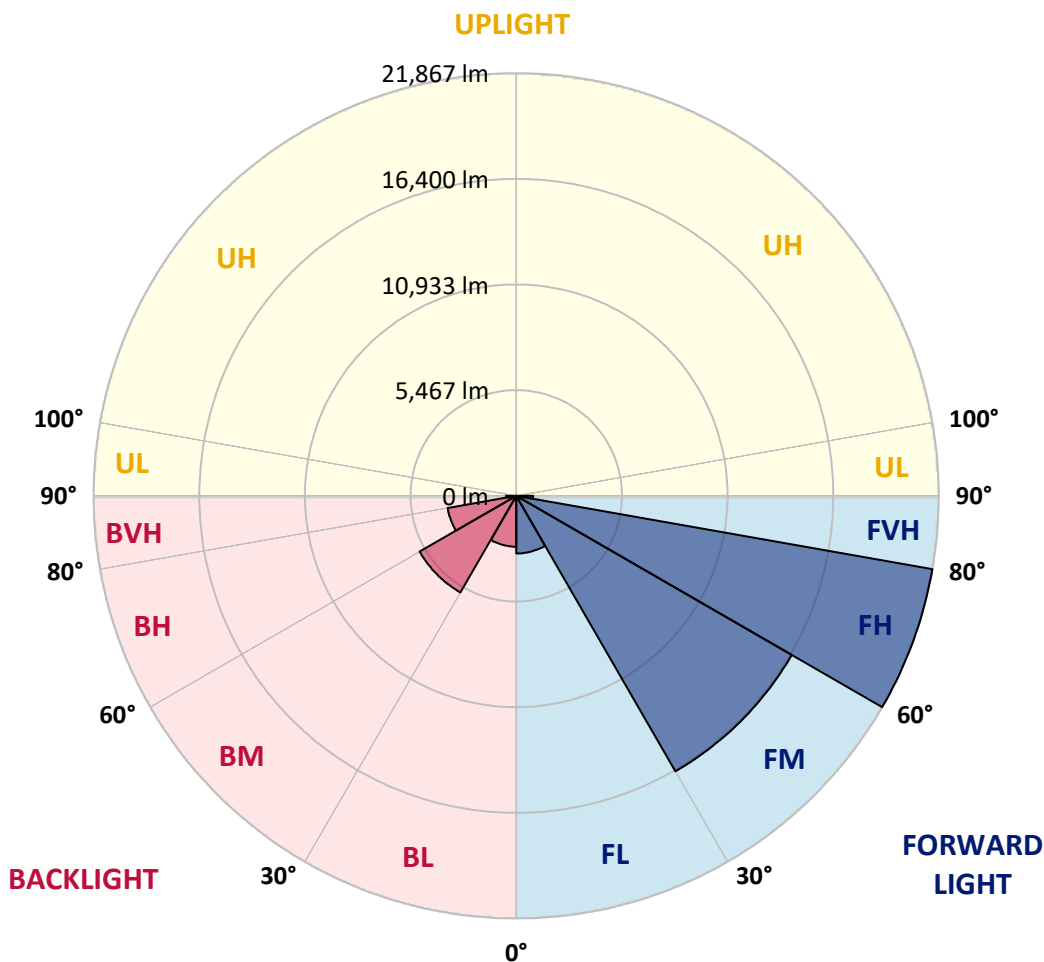


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2986.6	5.5			
FM (30°-60°)	16462.2	30.1			
FH (60°-80°)	21866.7	39.9			G5
FVH (80°-90°)	875.2	1.6			G5
BL (0°-30°)	2633.9	4.8	B4/5000		
BM (30°-60°)	5774.9	10.6	B4/8500		
BH (60°-80°)	3606.7	6.6	B4/5000		G4/5000
BVH (80°-90°)	529.8	1.0			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5576.5	5576.5	5576.5	5576.5	5576.5	5576.5	5576.5	5576.5	5576.5	5576.5	5576.5
2.5°	5855.6	5859.4	5866.9	5848.1	5795.7	5780.7	5775.1	5720.8	5685.2	5632.7	5587.8
5°	6323.9	6327.7	6316.4	6264.0	6147.9	6061.7	6054.2	5930.6	5818.2	5698.3	5608.4
7.5°	6812.8	6818.5	6782.9	6683.6	6520.6	6370.8	6361.4	6192.8	6022.3	5840.6	5705.8
10°	7245.6	7223.1	7165.0	7026.4	6833.4	6649.9	6642.4	6466.3	6269.6	6050.4	5870.6
12.5°	7534.0	7515.3	7440.4	7271.8	7060.1	6891.5	6876.5	6713.6	6522.5	6282.7	6067.3
15°	7693.2	7706.4	7605.2	7414.1	7208.1	7065.7	7052.6	6936.5	6766.0	6524.4	6277.1
17.5°	7713.9	7725.1	7627.7	7438.5	7269.9	7172.5	7166.9	7090.1	6966.4	6734.2	6475.7
20°	7594.0	7601.5	7520.9	7365.4	7254.9	7224.9	7223.1	7189.4	7097.6	6891.5	6640.5
22.5°	7419.8	7425.4	7367.3	7254.9	7217.5	7264.3	7277.4	7264.3	7198.7	7005.8	6769.8
25°	7376.7	7372.9	7313.0	7198.7	7230.6	7329.8	7346.7	7352.3	7307.4	7138.8	6934.6
27.5°	7584.6	7571.5	7457.2	7273.6	7294.3	7414.1	7436.6	7490.9	7462.8	7314.9	7121.9
30°	8185.9	8163.4	7929.3	7558.4	7457.2	7519.0	7547.1	7633.3	7638.9	7515.3	7371.1
32.5°	9201.2	9173.1	8753.5	8090.4	7732.6	7625.8	7652.0	7781.3	7850.6	7755.1	7599.6
35°	10484.3	10452.5	9901.8	8995.1	8193.4	7830.0	7848.7	7951.7	8090.4	7955.5	7749.4
37.5°	11821.8	11745.0	11214.9	10059.1	8925.8	8266.4	8266.4	8279.6	8345.1	8064.1	7925.5
40°	13151.8	13075.0	12595.4	11310.4	9873.7	8953.9	8910.8	8620.5	8568.0	8326.4	8279.6
42.5°	14388.1	14365.6	14082.7	12724.7	10986.3	9630.1	9570.2	9077.5	9088.8	8938.9	8940.8
45°	15703.1	15703.1	15472.7	14152.1	12282.6	10716.6	10656.7	9931.7	10044.1	9974.8	10141.5
47.5°	16776.4	16810.1	16778.3	15639.4	13790.5	12097.1	11988.5	11115.6	11430.3	11668.2	12153.3
50°	17872.2	17924.7	17930.3	17270.9	15613.2	13738.1	13614.4	12687.2	13389.7	14071.5	15025.0
52.5°	19462.6	19580.6	19110.4	18898.8	17846.0	15686.2	15564.4	14708.4	15881.0	16838.2	18481.0
55°	20936.8	20833.8	20498.5	20629.6	20236.2	17904.1	17812.3	17061.1	18657.1	19900.9	22034.5
57.5°	21734.8	21727.3	22064.5	22626.4	22813.7	20639.0	20562.2	19831.6	21787.2	22722.0	25370.7
60°	22671.4	22684.5	23519.9	24795.6	25567.4	24044.4	24010.7	23456.3	24827.4	25355.7	27987.5
62.5°	22802.5	23038.5	24477.2	26672.5	28144.9	28023.1	28098.1	26721.2	27547.3	27457.4	29941.3
65°	21294.6	21605.5	24209.3	27240.1	30707.4	32374.6	32443.9	30005.0	29692.1	29253.8	30640.0
67.5°	18203.8	18664.6	21493.1	26005.7	31552.2	35590.9	35688.3	32550.7	31471.7	29862.6	28957.9
70°	13247.3	13758.7	16605.9	22210.6	30046.2	36619.3	36729.8	33676.5	31539.1	28129.9	24720.7
72.5°	8002.3	8403.2	10750.3	16351.2	25359.4	34746.1	34942.7	32249.1	28794.9	23827.1	18254.4
75°	3514.1	3776.4	5198.1	9422.2	18155.1	28748.1	28993.4	27603.5	23396.3	17315.9	10789.7
77.5°	1496.7	1571.6	2131.7	4092.9	10263.3	19644.3	19981.5	20168.8	15873.5	9422.2	4559.4
80°	932.9	962.8	1206.3	1852.6	4802.9	11033.2	11396.6	11866.7	7882.4	3463.6	1592.2
82.5°	567.6	601.3	801.7	1120.2	2500.7	5001.5	5175.7	5507.2	3058.9	1496.7	824.2
85°	340.9	365.3	490.8	708.1	1423.6	1966.9	1965.0	2172.9	1440.5	962.8	434.6
87.5°	163.0	181.7	262.2	367.1	717.4	738.0	691.2	783.0	874.8	631.3	219.2
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°	5576.5	5576.5	5576.5	5576.5	5576.5	5576.5	5576.5	5576.5	5576.5	5576.5	5576.5
2.5°	5572.8	5565.3	5540.9	5522.2	5518.5	5507.2	5497.9	5503.5	5511.0	5512.8	5512.8
5°	5570.9	5550.3	5518.5	5505.3	5522.2	5544.7	5572.8	5610.2	5632.7	5649.6	5660.8
7.5°	5660.8	5621.5	5585.9	5578.4	5612.1	5672.1	5735.7	5814.4	5868.7	5906.2	5913.7
10°	5810.7	5762.0	5726.4	5733.9	5793.8	5880.0	5969.9	6071.1	6153.5	6204.1	6207.8
12.5°	5983.0	5936.2	5902.5	5934.3	6033.6	6138.5	6232.1	6320.2	6395.1	6445.7	6445.7
15°	6181.6	6147.9	6108.5	6181.6	6316.4	6410.1	6449.4	6492.5	6533.7	6571.2	6563.7
17.5°	6372.6	6340.8	6320.2	6406.4	6546.8	6589.9	6563.7	6531.9	6531.9	6552.5	6556.2
20°	6537.5	6509.4	6522.5	6606.8	6679.8	6634.9	6537.5	6436.3	6395.1	6406.4	6417.6
22.5°	6681.7	6668.6	6707.9	6747.3	6694.8	6537.5	6357.7	6220.9	6170.3	6166.6	6170.3
25°	6850.3	6848.4	6897.1	6826.0	6593.7	6303.3	6061.7	5928.7	5900.6	5923.1	5960.5
27.5°	7060.1	7080.7	7105.1	6844.7	6387.6	5949.3	5703.9	5612.1	5640.2	5694.5	5730.1
30°	7328.0	7384.2	7331.7	6797.9	6091.7	5544.7	5310.5	5284.3	5361.1	5437.9	5475.4
32.5°	7588.3	7676.4	7549.0	6676.1	5709.5	5115.7	4934.0	4926.5	5020.2	5095.1	5147.6
35°	7798.1	7972.4	7712.0	6434.5	5267.4	4720.5	4587.5	4536.9	4570.6	4658.7	4718.6
37.5°	8071.6	8362.0	7824.4	6065.4	4787.9	4394.5	4239.1	4122.9	4092.9	4128.5	4158.5
40°	8571.8	8955.8	7876.8	5550.3	4319.6	4068.6	3911.2	3740.8	3622.8	3536.6	3538.5
42.5°	9388.5	9729.4	7843.1	4924.7	3886.9	3750.2	3572.2	3375.5	3184.4	2989.6	2974.6
45°	10714.7	10879.6	7742.0	4261.5	3506.6	3416.7	3250.0	3053.3	2798.6	2577.5	2556.9
47.5°	12837.1	12471.8	7584.6	3682.7	3171.3	3133.9	2980.3	2753.6	2483.9	2305.9	2290.9
50°	15731.2	14770.2	7507.8	3221.9	2875.4	2886.6	2761.1	2521.3	2266.6	2135.5	2120.5
52.5°	19192.8	17447.0	7655.8	2866.0	2637.5	2676.8	2583.1	2358.4	2144.8	2041.8	2026.8
55°	22783.8	20219.4	7815.0	2607.5	2412.7	2489.5	2457.6	2272.2	2079.3	1983.7	1970.6
57.5°	25857.7	22289.2	7496.6	2397.7	2212.3	2332.1	2360.2	2217.9	2045.5	1959.4	1944.4
60°	27792.7	23122.8	6661.1	2201.0	2053.0	2206.6	2304.0	2202.9	2058.7	2051.2	2039.9
62.5°	28710.6	23049.8	5407.9	2045.5	1953.8	2152.3	2345.3	2287.2	2208.5	2275.9	2281.6
65°	28298.5	21948.3	4027.4	1942.5	1882.6	2172.9	2468.9	2446.4	2251.6	2319.0	2328.4
67.5°	25586.1	19320.2	2982.1	1852.6	1803.9	2231.0	2693.7	2498.9	2167.3	2216.0	2186.0
70°	20680.2	15317.2	2300.3	1751.4	1723.3	2223.5	2794.8	2467.0	2075.5	2086.7	2006.2
72.5°	14260.7	10445.0	1871.3	1657.8	1607.2	2026.8	2723.6	2388.3	1998.7	1912.5	1805.8
75°	7755.1	5606.5	1590.3	1560.4	1403.0	1779.5	2592.5	2332.1	1929.4	1815.1	1755.2
77.5°	3051.4	2326.5	1380.6	1427.4	1226.9	1571.6	2446.4	2225.4	1833.9	1684.0	1654.0
80°	1245.7	1187.6	1144.5	1234.4	1054.6	1374.9	2270.3	2099.9	1719.6	1562.3	1502.3
82.5°	706.2	738.0	889.8	974.1	856.1	1266.3	2186.0	1998.7	1582.9	1399.3	1328.1
85°	361.5	432.7	620.0	698.7	629.4	1077.1	2013.7	1749.6	1270.0	1071.5	1077.1
87.5°	174.2	241.6	391.5	438.3	408.4	779.3	1504.2	1268.2	989.1	783.0	758.6
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)