

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: P318780

Luminaire Tested: **GAN-SA6D-750-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46685 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 382
Input Voltage (V): NR
Input Current (A_{in}): 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

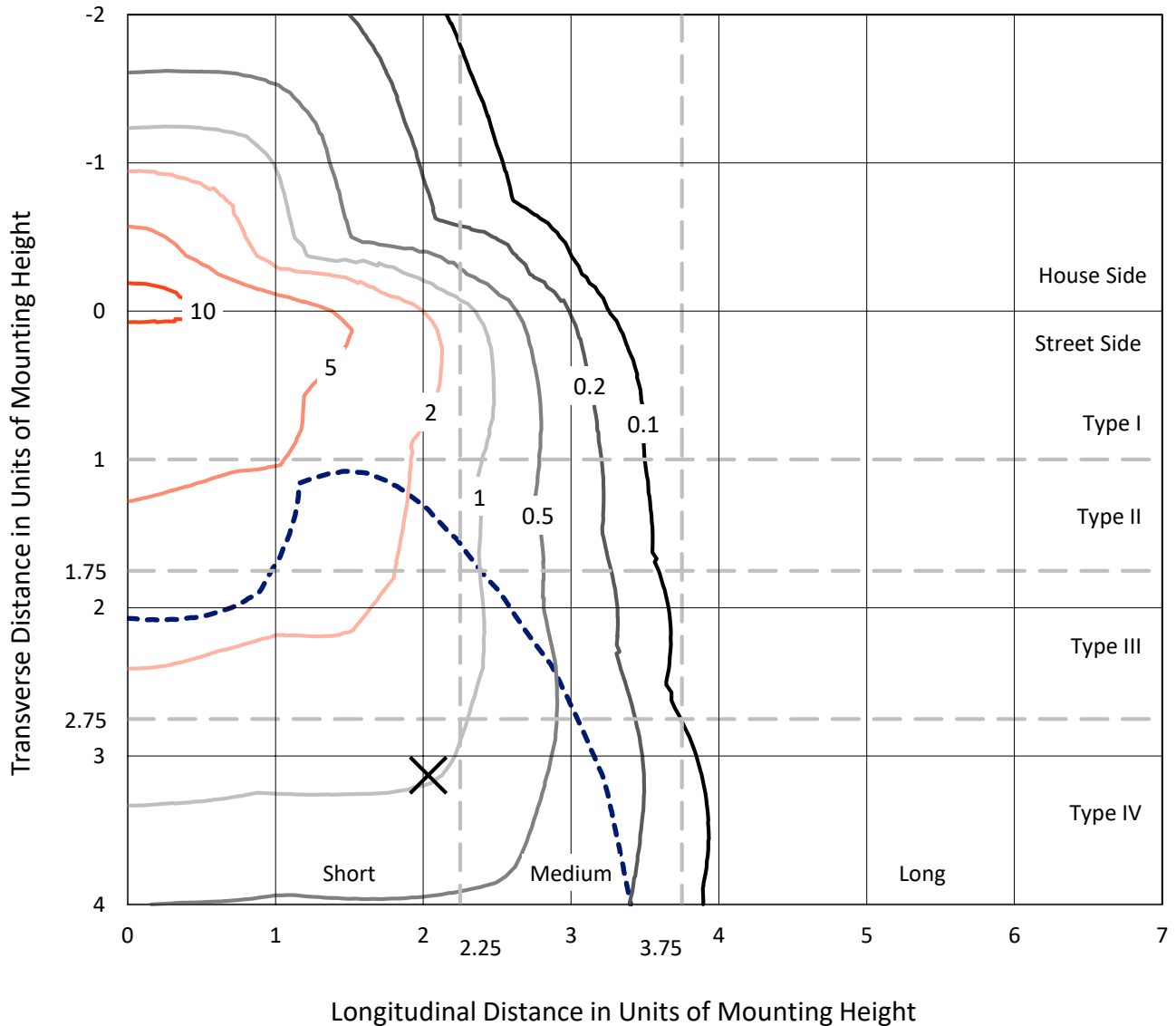




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Iso-Footcandle Lines of Horizontal Illumination

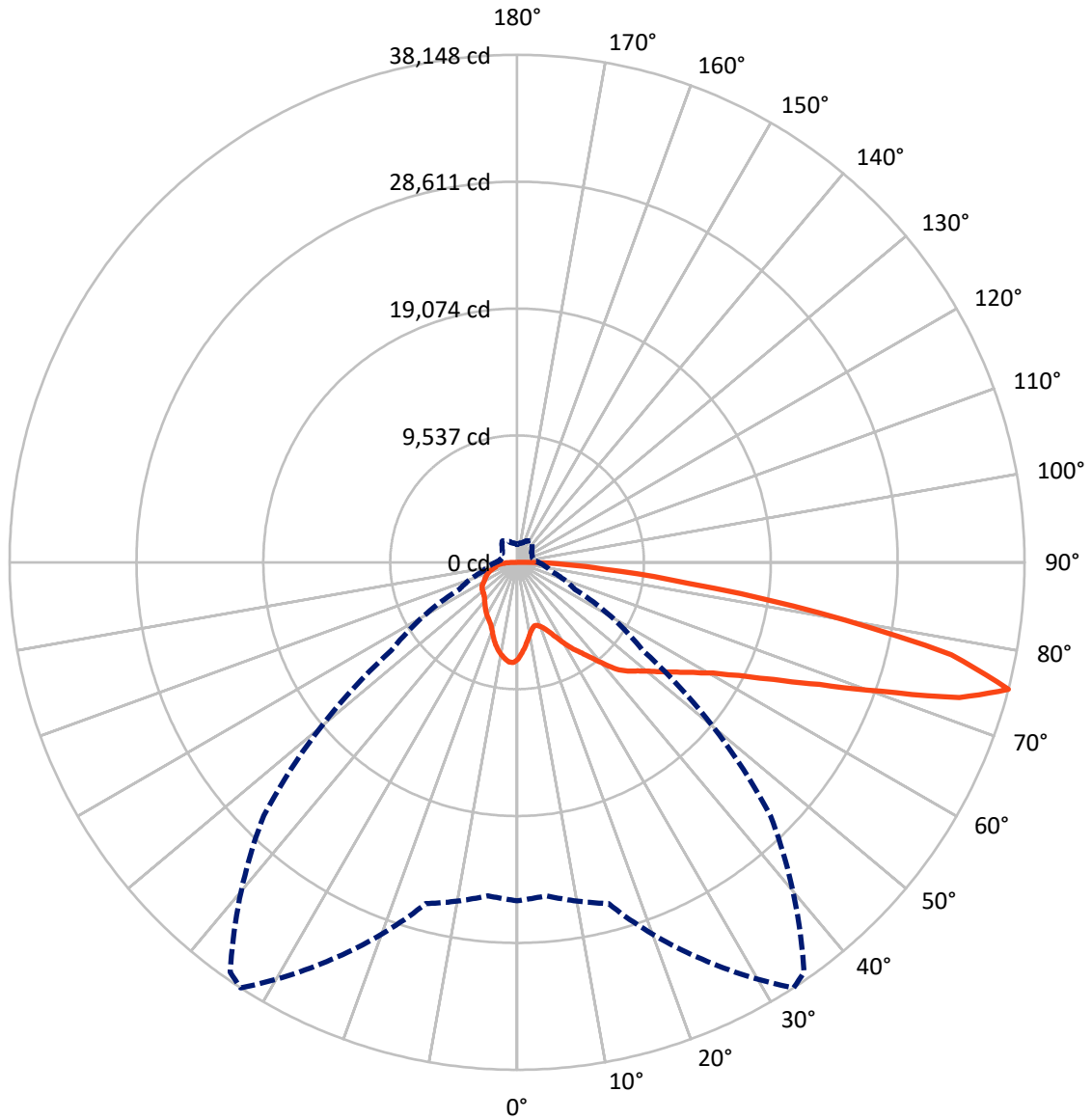
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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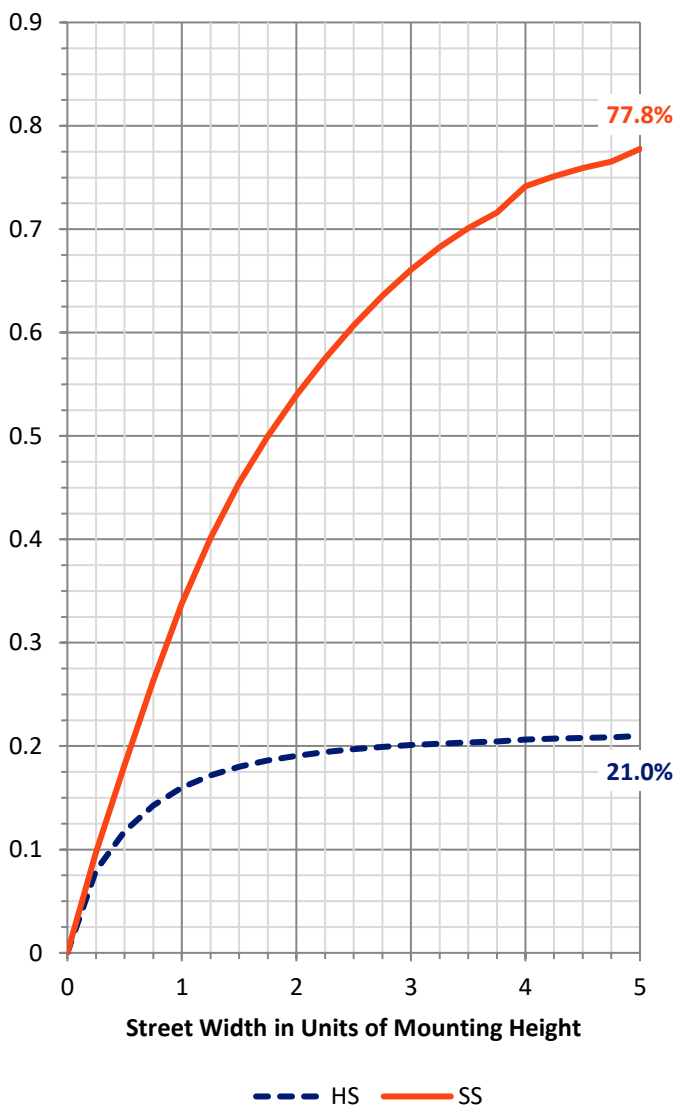
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10024.5	0.0	10024.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	36660.5	0.0	36660.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	46685.0	0.0	46685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.9	1.4
10°-20°	1787.4	3.8
20°-30°	2919.1	6.3
30°-40°	4347.2	9.3
40°-50°	6235.0	13.4
50°-60°	8559.7	18.3
60°-70°	10716.3	23.0
70°-80°	9694.6	20.8
80°-90°	1765.9	3.8
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°	46685.0	100.0
0°-180°	46685.0	100.0

Coefficient of Utilization

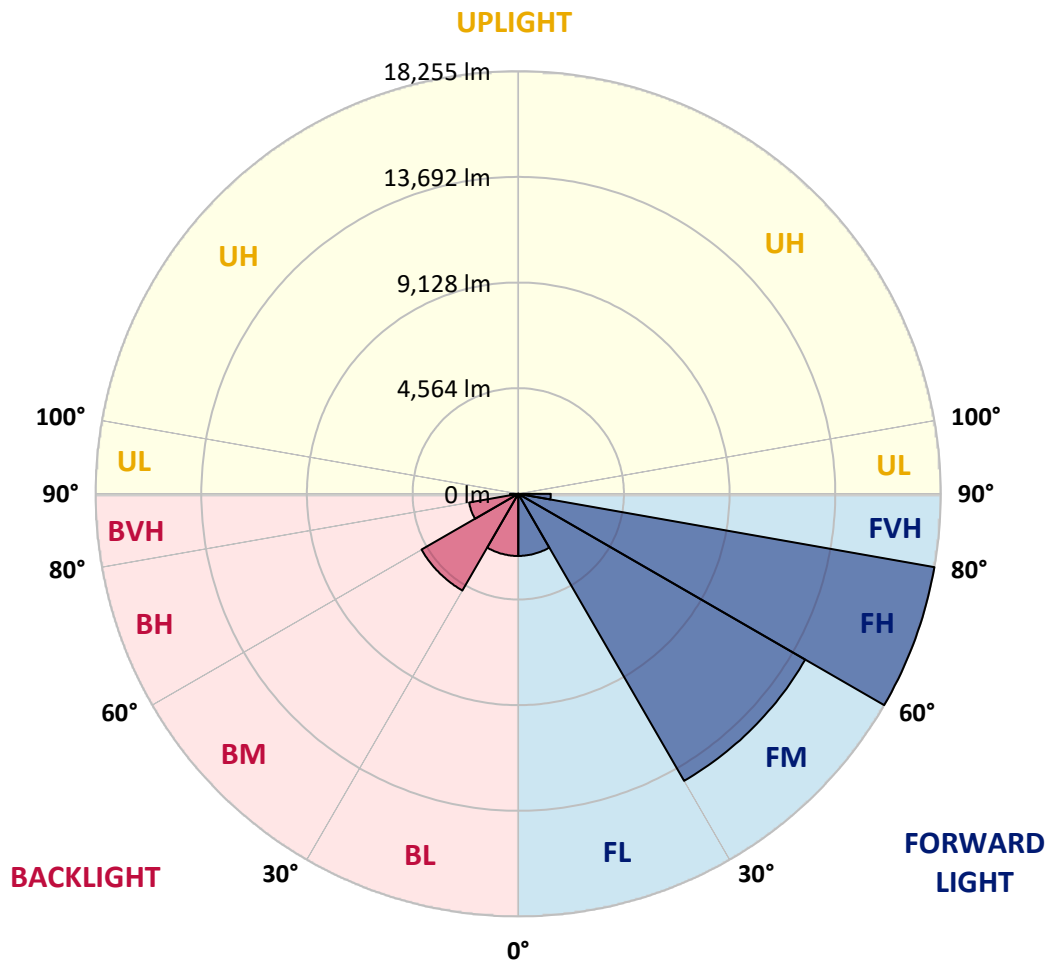


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2681.3	5.7			
FM (30°-60°)	14317.3	30.7			
FH (60°-80°)	18255.5	39.1			G5
FVH (80°-90°)	1406.4	3.0			G5
BL (0°-30°)	2685.0	5.8	B4/5000		
BM (30°-60°)	4824.5	10.3	B3/5000		
BH (60°-80°)	2155.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	359.5	0.8			G3/500
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°	33°	35°	45°	55°	65°	75°	85°
0°	7297.1	7297.1	7297.1	7297.1	7297.1	7297.1	7297.1	7297.1	7297.1	7297.1	7297.1
2.5°	6776.2	6750.4	6798.8	6805.3	6847.2	6863.3	6921.4	7011.7	7085.9	7171.3	7248.7
5°	6161.8	6144.1	6211.8	6260.2	6352.1	6390.8	6527.9	6719.8	6890.7	7084.3	7260.0
7.5°	5578.1	5568.4	5644.2	5753.8	5860.3	5913.5	6150.6	6429.5	6715.0	7027.8	7297.1
10°	5086.2	5083.0	5155.6	5263.6	5420.0	5479.7	5786.1	6153.8	6553.7	6984.3	7360.0
12.5°	4810.5	4821.7	4855.6	4945.9	5091.1	5150.7	5491.0	5923.2	6418.2	6969.8	7451.9
15°	4878.2	4895.9	4837.9	4834.6	4937.9	4984.6	5303.9	5758.7	6321.5	6994.0	7585.8
17.5°	5166.8	5170.1	5016.9	4920.1	4983.0	5007.2	5245.9	5665.2	6265.0	7048.8	7753.5
20°	5573.2	5565.2	5294.2	5133.0	5166.8	5173.3	5328.1	5666.8	6260.2	7143.9	7971.2
22.5°	6111.8	6052.2	5687.7	5468.4	5460.3	5450.7	5539.4	5786.1	6331.2	7298.7	8230.8
25°	6815.0	6758.5	6257.0	5957.0	5892.5	5868.3	5881.2	6040.9	6471.5	7464.8	8521.1
27.5°	7597.1	7498.7	7014.9	6590.8	6456.9	6423.1	6345.7	6400.5	6624.7	7624.5	8866.2
30°	8251.8	8198.6	7776.1	7272.9	7114.9	7066.5	6863.3	6803.7	6845.6	7842.2	9301.6
32.5°	8617.9	8582.4	8326.0	7919.6	7772.9	7705.1	7418.1	7298.7	7200.4	8185.7	9891.8
35°	9061.3	9038.8	8884.0	8588.8	8371.1	8300.2	8077.6	7953.5	7700.3	8658.2	10654.6
37.5°	9625.8	9601.6	9604.8	9366.1	9106.5	9040.4	8893.6	8763.0	8348.6	9279.0	11483.5
40°	10264.4	10217.6	10199.9	10188.6	10024.1	9987.0	9909.6	9732.2	9161.3	10020.9	12301.1
42.5°	11225.5	11059.4	10704.6	10838.5	11001.3	10982.0	11044.9	10790.1	10064.4	10898.1	13099.4
45°	12152.7	11880.2	11267.4	11296.4	11652.8	11760.9	12231.8	12051.1	11043.3	11859.2	13925.0
47.5°	12575.2	12368.8	11848.0	11849.6	12202.7	12426.9	13459.0	13330.0	12072.1	12951.0	14932.9
50°	13047.7	12841.3	12373.7	12549.4	12857.5	13096.1	14644.2	14578.1	13051.0	14145.9	16140.8
52.5°	13563.8	13213.8	12917.1	13231.6	13663.8	13941.1	15831.1	15650.5	13949.2	15349.0	17529.2
55°	13570.2	13475.1	13700.9	13931.5	14578.1	14918.4	17074.5	16597.1	14681.3	16531.0	18659.7
57.5°	14342.7	14187.9	14666.8	14773.3	15618.3	16002.1	18311.4	17421.2	15426.4	17437.3	19269.3
60°	15365.1	15232.9	15624.7	15905.3	16905.1	17418.0	19632.1	18267.8	16011.8	18121.1	19240.2
62.5°	17130.9	16980.9	16976.1	17369.6	18716.1	19312.8	21114.1	19098.3	16244.0	18256.5	18419.4
65°	19716.0	19477.3	19027.4	19214.4	21217.3	21812.4	22770.3	19699.8	15937.6	17530.8	16305.2
67.5°	22231.6	22223.6	21670.5	22054.3	24520.0	24997.3	24657.0	19759.5	14981.3	15003.9	12554.3
70°	24739.3	24771.5	24678.0	26013.3	28982.1	29478.8	26666.4	18958.0	12831.7	10835.2	7521.3
72.5°	26726.0	26718.0	27188.9	30631.8	34773.0	34661.8	28359.6	16529.4	9212.9	5849.0	3594.5
75°	25439.2	25158.6	26561.5	32918.5	38148.3	37604.8	26919.5	11530.3	4781.4	2662.4	1935.1
77.5°	16592.3	16858.4	18917.7	27193.7	33368.4	32707.3	19749.8	5379.7	2252.8	1746.5	1403.0
80°	6008.6	6289.2	8858.1	15403.8	22989.6	22881.5	9725.7	2210.9	1523.9	1319.1	1022.4
82.5°	2067.4	2170.6	3494.6	6840.8	12980.0	13463.8	3659.0	1256.2	1107.9	935.3	699.9
85°	811.2	928.9	1598.1	3291.4	6547.3	6595.6	1482.0	751.5	770.8	612.8	383.8
87.5°	308.0	374.1	764.4	1528.8	2989.8	2746.3	530.6	358.0	438.6	364.5	182.2
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°	7297.1	7297.1	7297.1	7297.1	7297.1	7297.1	7297.1	7297.1	7297.1	7297.1	7297.1
2.5°	7308.4	7342.3	7413.2	7461.6	7513.2	7527.7	7534.2	7547.1	7560.0	7555.1	7556.8
5°	7353.6	7419.7	7534.2	7582.6	7605.1	7579.3	7529.3	7489.0	7460.0	7443.9	7439.0
7.5°	7427.7	7521.3	7643.8	7635.8	7584.2	7469.7	7340.7	7243.9	7163.3	7134.3	7118.1
10°	7526.1	7635.8	7721.2	7629.3	7479.4	7281.0	7087.5	6937.5	6816.6	6769.8	6761.7
12.5°	7651.9	7763.2	7779.3	7584.2	7335.8	7064.9	6802.1	6603.7	6423.1	6365.0	6352.1
15°	7814.8	7919.6	7819.6	7505.2	7158.4	6794.0	6453.7	6184.4	5994.1	5923.2	5897.4
17.5°	7985.7	8085.7	7827.7	7374.5	6926.2	6473.1	6045.7	5770.0	5552.3	5470.0	5460.3
20°	8190.5	8235.7	7793.8	7187.5	6606.9	6057.0	5607.1	5347.5	5231.4	5173.3	5166.8
22.5°	8443.7	8395.3	7716.4	6934.3	6202.2	5576.5	5210.4	5089.4	5060.4	5047.5	5052.4
25°	8711.4	8563.0	7601.9	6603.7	5691.0	5095.9	4920.1	4954.0	4992.7	4987.8	4987.8
27.5°	9006.5	8734.0	7426.1	6165.1	5124.9	4702.4	4723.4	4847.6	4905.6	4904.0	4902.4
30°	9385.5	8927.5	7202.0	5637.7	4596.0	4425.0	4552.4	4704.0	4783.0	4779.8	4781.4
32.5°	9851.5	9140.4	6897.2	5049.1	4213.8	4220.2	4367.0	4517.0	4608.9	4600.8	4602.4
35°	10396.6	9379.0	6484.4	4468.6	3960.6	4057.4	4173.5	4278.3	4365.4	4354.1	4342.8
37.5°	10990.0	9612.9	5936.1	3949.3	3754.2	3905.8	4002.5	4020.3	4060.6	4031.6	4010.6
40°	11554.5	9791.9	5229.7	3523.6	3546.2	3776.8	3839.7	3768.7	3696.1	3686.5	3657.4
42.5°	12046.3	9851.5	4515.3	3183.3	3326.8	3641.3	3680.0	3531.6	3401.0	3339.7	3313.9
45°	12565.6	9872.5	3849.3	2897.9	3115.6	3520.4	3562.3	3363.9	3180.1	3047.9	3004.3
47.5°	13244.5	10024.1	3331.7	2686.6	2954.3	3439.7	3499.4	3230.1	2991.4	2802.7	2762.4
50°	14133.0	10324.0	2910.8	2525.4	2849.5	3386.5	3454.2	3099.5	2836.6	2609.2	2568.9
52.5°	15120.0	10599.8	2570.5	2394.7	2747.9	3293.0	3396.2	3005.9	2691.5	2430.2	2386.7
55°	15810.2	10388.5	2296.4	2259.3	2615.7	3159.1	3315.6	2926.9	2483.4	2256.1	2217.4
57.5°	15942.4	9666.1	2088.3	2119.0	2456.0	2991.4	3191.4	2751.1	2370.6	2180.3	2140.0
60°	15581.2	8659.8	1933.5	1990.0	2285.1	2780.2	2959.2	2627.0	2262.5	2099.6	2065.8
62.5°	14673.3	7629.3	1819.0	1873.9	2125.4	2565.7	2814.0	2496.3	2152.9	2007.7	1973.9
65°	12839.7	6405.3	1709.4	1770.7	1977.1	2380.2	2683.4	2375.4	2044.8	1933.5	1901.3
67.5°	9691.9	4797.6	1606.2	1661.0	1844.8	2219.0	2541.5	2256.1	1940.0	1869.0	1830.3
70°	5707.1	3004.3	1488.5	1546.5	1706.2	2051.3	2389.9	2125.4	1809.4	1777.1	1727.1
72.5°	2656.0	1807.8	1354.6	1411.0	1532.0	1827.1	2194.8	1954.5	1654.6	1583.6	1515.9
75°	1585.2	1322.4	1196.6	1246.6	1332.0	1588.4	1949.7	1780.3	1507.8	1414.3	1343.3
77.5°	1185.3	1011.1	1022.4	1075.6	1145.0	1390.1	1727.1	1643.3	1394.9	1322.4	1274.0
80°	853.1	767.6	833.7	891.8	964.3	1264.3	1654.6	1519.1	1261.1	1164.3	1119.2
82.5°	569.3	551.5	627.3	687.0	757.9	1106.3	1554.6	1330.4	1077.2	954.7	854.7
85°	314.5	332.2	422.5	448.3	509.6	778.9	1274.0	1069.2	811.2	653.1	624.1
87.5°	130.6	153.2	227.4	219.3	270.9	464.4	838.6	645.0	516.0	385.4	299.9
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)