

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: P318460

Luminaire Tested: **GAN-SA6D-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318460
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-SA6D-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46416 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

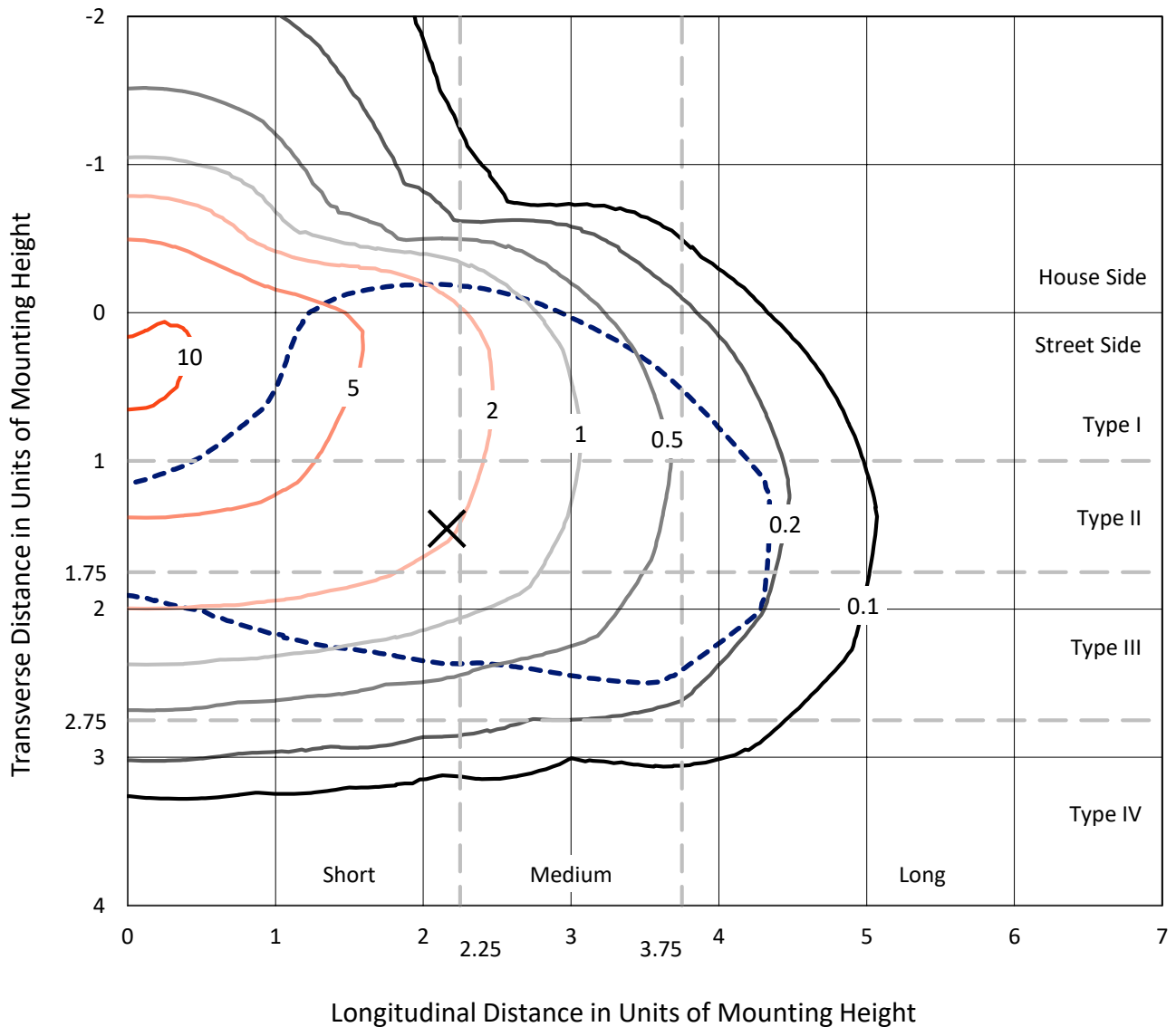
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

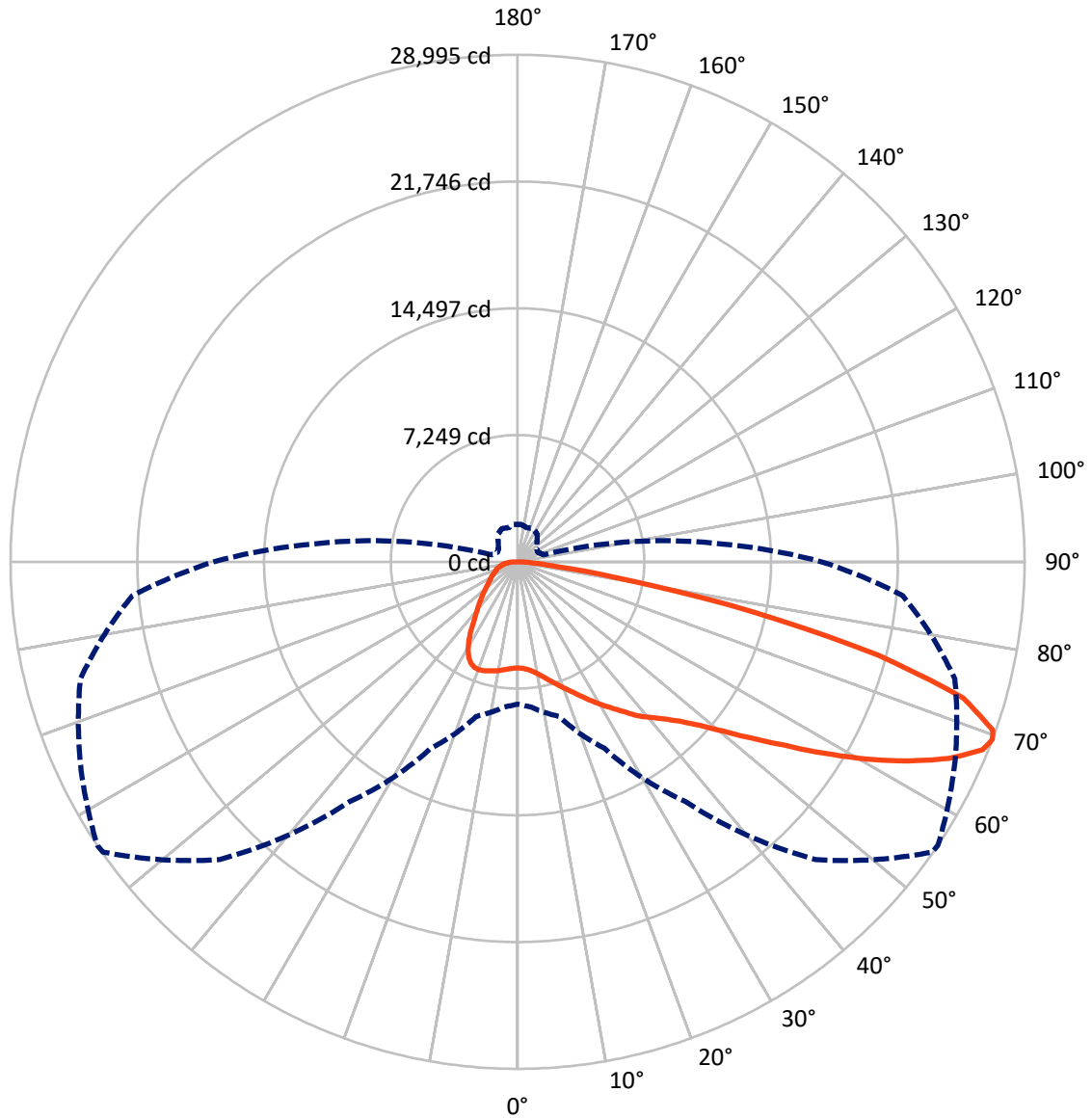
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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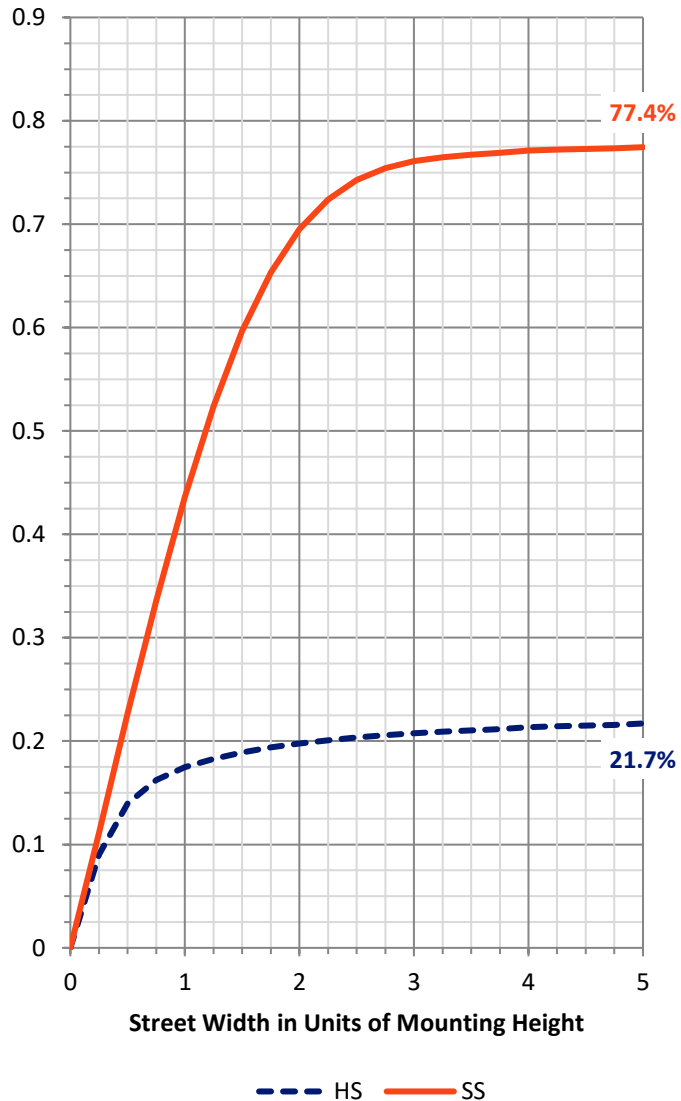
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10336.8	0.0	10336.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	36079.2	0.0	36079.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	46416.0	0.0	46416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.0	1.3
10°-20°	1916.5	4.1
20°-30°	3345.4	7.2
30°-40°	4805.6	10.4
40°-50°	6650.7	14.3
50°-60°	9744.2	21.0
60°-70°	11880.0	25.6
70°-80°	6568.0	14.2
80°-90°	909.7	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°	46416.0	100.0
0°-180°	46416.0	100.0

Coefficient of Utilization



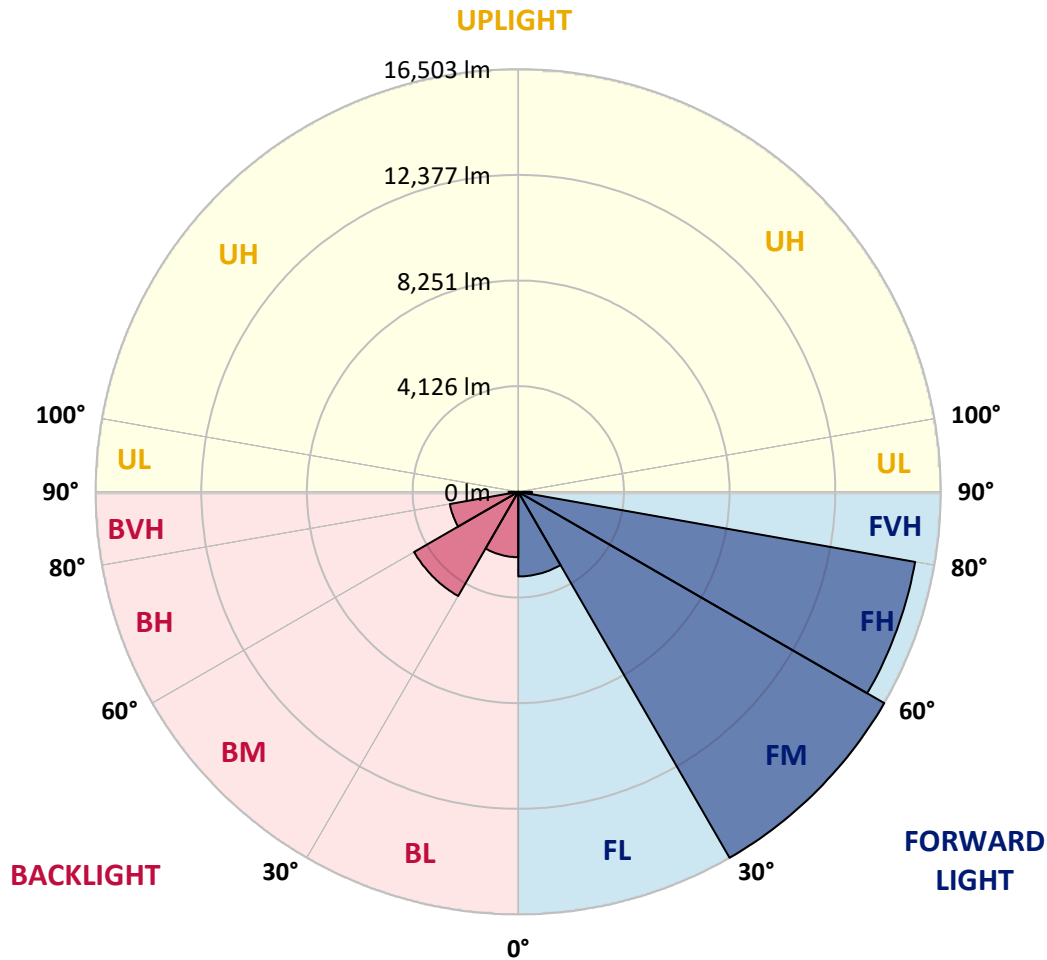
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3303.4	7.1			
FM (30°-60°)	16502.6	35.6			
FH (60°-80°)	15737.3	33.9			G5
FVH (80°-90°)	535.8	1.2			G4/750
BL (0°-30°)	2554.4	5.5	B4/5000		
BM (30°-60°)	4697.8	10.1	B3/5000		
BH (60°-80°)	2710.6	5.8	B4/5000		G4/5000
BVH (80°-90°)	373.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2
2.5°	6106.6	6113.0	6108.2	6121.0	6106.6	6116.2	6108.2	6108.2	6103.4	6089.0	6073.0
5°	6202.5	6215.3	6207.3	6220.1	6202.5	6205.7	6191.3	6191.3	6176.9	6146.5	6114.6
7.5°	6352.8	6367.2	6360.8	6373.6	6349.6	6349.6	6330.4	6328.8	6300.0	6250.5	6213.7
10°	6531.9	6551.1	6544.7	6563.9	6544.7	6551.1	6531.9	6531.9	6493.5	6423.2	6376.8
12.5°	6792.5	6816.5	6798.9	6797.3	6789.3	6802.1	6786.1	6782.9	6747.8	6651.8	6587.9
15°	7141.1	7166.7	7129.9	7126.7	7082.0	7077.2	7077.2	7072.4	7050.0	6934.8	6829.3
17.5°	7542.5	7550.5	7518.5	7467.3	7409.8	7373.0	7368.2	7381.0	7381.0	7246.7	7078.8
20°	7935.8	7950.2	7924.6	7867.1	7793.5	7739.1	7700.8	7726.4	7724.8	7564.9	7326.6
22.5°	8364.4	8397.9	8359.6	8286.0	8199.7	8138.9	8071.7	8094.1	8095.7	7899.0	7569.7
25°	8919.2	8888.8	8864.8	8760.9	8637.8	8575.4	8513.1	8535.4	8529.0	8258.8	7820.7
27.5°	9410.1	9416.5	9384.5	9274.2	9131.9	8994.4	8991.2	9005.6	8981.6	8633.0	8057.3
30°	9980.9	9984.1	9939.4	9840.2	9685.1	9507.6	9466.1	9490.0	9438.9	8988.0	8306.8
32.5°	10548.6	10564.6	10515.0	10395.1	10270.4	10054.5	9971.3	9987.3	9859.4	9350.9	8564.2
35°	11045.9	11068.3	11052.3	10972.3	10836.4	10650.9	10551.8	10542.2	10383.9	9795.5	8904.8
37.5°	11552.8	11573.5	11556.0	11488.8	11434.4	11237.8	11185.0	11185.0	10910.0	10249.6	9338.1
40°	12074.0	12106.0	12085.2	11992.5	11946.1	11856.6	11730.2	11699.9	11402.4	10794.8	10044.9
42.5°	12558.5	12600.1	12683.2	12628.9	12534.5	12547.3	12293.1	12277.1	12059.6	11600.7	10932.3
45°	13246.1	13306.9	13447.6	13406.0	13386.8	13316.4	13014.2	12999.8	12916.7	12684.8	12034.1
47.5°	13996.0	14079.2	14333.4	14341.4	14547.7	14415.0	14004.0	13954.4	13973.6	13983.2	13378.8
50°	14686.8	14777.9	15195.3	15391.9	15878.0	15906.8	15249.6	15204.9	15280.0	15500.7	14945.8
52.5°	15238.4	15353.6	15874.8	16482.5	17315.5	17552.2	16783.1	16749.5	16805.5	17186.0	16717.5
55°	15643.0	15767.7	16335.4	17441.9	18772.2	19189.6	18548.4	18516.4	18551.6	19036.1	18644.3
57.5°	15737.3	15767.7	16591.2	18087.9	20001.9	21004.4	20708.6	20644.6	20472.0	20894.1	20771.0
60°	15294.4	15415.9	16380.1	18314.9	20953.3	22793.7	22966.4	22886.4	22401.9	22747.3	22648.2
62.5°	14395.8	14613.2	15591.8	17969.5	21325.8	24255.2	25181.0	25085.1	24250.4	24474.2	23997.7
65°	12927.9	13020.6	14048.8	16778.3	20852.5	25190.6	27155.8	27107.8	26057.3	25707.1	24247.2
67.5°	10302.3	10476.6	11349.7	14288.6	18916.1	25080.3	28682.8	28678.0	27237.3	26164.4	23362.9
69°	8138.9	8319.6	9151.1	11770.2	16738.3	24071.3	28938.6	28994.6	27569.9	25886.2	22099.7
70°	6488.7	6698.2	7269.0	9913.8	14805.1	22740.9	28726.0	28826.7	27505.9	25427.2	20934.1
72.5°	2761.5	2931.0	3337.1	5110.4	9023.1	16981.3	26265.1	26645.7	26023.7	23271.8	17301.1
75°	1205.6	1258.4	1442.3	2083.5	4005.5	9242.2	20575.9	21279.5	22251.6	19670.9	12887.9
77.5°	882.6	905.0	1005.8	1223.2	1797.3	3490.6	13231.7	13641.0	16047.5	14314.2	7905.4
80°	682.8	698.8	777.1	898.6	1173.7	1411.9	6034.6	6386.4	9023.1	7352.2	3292.3
82.5°	543.7	554.9	609.2	662.0	810.7	855.5	2003.5	2222.6	3330.7	2030.7	871.5
85°	505.3	518.1	537.3	482.9	519.7	502.1	866.7	906.6	1005.8	797.9	364.6
87.5°	228.7	270.2	532.5	375.8	276.6	220.7	355.0	371.0	417.3	418.9	161.5
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°	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2
2.5°	6082.6	6077.8	6085.8	6066.6	6090.6	6089.0	6081.0	6084.2	6100.2	6098.6	6100.2
5°	6119.4	6116.2	6125.8	6111.4	6140.1	6149.7	6151.3	6165.7	6183.3	6188.1	6188.1
7.5°	6212.1	6212.1	6216.9	6197.7	6216.9	6215.3	6207.3	6221.7	6239.3	6240.9	6239.3
10°	6372.0	6373.6	6365.6	6316.0	6300.0	6256.9	6216.9	6218.5	6240.9	6258.5	6263.3
12.5°	6573.5	6567.1	6531.9	6440.8	6373.6	6285.7	6244.1	6242.5	6264.9	6279.3	6284.1
15°	6803.7	6786.1	6695.0	6546.3	6428.0	6341.6	6274.5	6258.5	6245.7	6229.7	6231.3
17.5°	7021.2	6981.2	6829.3	6623.0	6498.3	6383.2	6253.7	6149.7	6077.8	6036.2	6023.4
20°	7241.9	7163.5	6944.4	6695.0	6536.7	6327.2	6077.8	5866.7	5735.6	5674.8	5663.6
22.5°	7443.3	7317.0	7051.6	6770.2	6506.3	6138.5	5746.8	5439.8	5257.5	5176.0	5182.3
25°	7640.0	7464.1	7163.5	6822.9	6352.8	5806.0	5286.3	4908.9	4697.9	4606.7	4603.5
27.5°	7812.7	7612.8	7285.0	6779.7	6066.6	5332.7	4741.0	4373.3	4197.4	4119.0	4106.2
30°	8011.0	7799.9	7446.5	6615.1	5647.7	4785.8	4208.6	3949.5	3824.8	3746.4	3732.1
32.5°	8252.4	8054.1	7579.2	6316.0	5112.0	4215.0	3792.8	3612.1	3498.6	3410.7	3394.7
35°	8604.2	8389.9	7612.8	5887.5	4523.6	3764.0	3487.4	3301.9	3148.4	3034.9	3023.7
37.5°	9045.5	8810.5	7536.1	5332.7	3952.7	3471.4	3233.2	3004.5	2804.6	2644.7	2619.2
40°	9681.9	9326.9	7323.4	4693.1	3532.2	3246.0	2985.3	2724.7	2476.8	2289.8	2253.0
42.5°	10446.2	9933.0	6997.2	4056.7	3223.6	3017.3	2739.1	2416.1	2179.4	2046.7	2027.5
45°	11418.4	10563.0	6544.7	3500.2	2919.8	2788.7	2473.6	2176.2	2029.1	1931.6	1915.6
47.5°	12528.1	11269.7	6069.8	3047.7	2662.3	2574.4	2261.0	2069.1	1952.4	1875.6	1861.2
50°	13892.1	12067.6	5566.1	2676.7	2403.3	2316.9	2160.2	2009.9	1917.2	1858.0	1843.6
52.5°	15430.3	12967.9	5203.1	2384.1	2189.0	2126.7	2107.5	1978.0	1902.8	1858.0	1843.6
55°	17086.9	13884.1	4811.4	2137.9	2003.5	2021.1	2072.3	1981.2	1930.0	1875.6	1854.8
57.5°	18745.0	14830.7	4374.9	1930.0	1856.4	1942.8	2048.3	1987.6	1944.4	1891.6	1872.4
60°	20056.2	15430.3	3698.5	1755.7	1739.7	1856.4	1990.8	1939.6	1883.6	1885.2	1882.0
62.5°	20668.6	15398.3	2951.7	1600.6	1623.0	1739.7	1898.0	1864.4	1818.1	1880.4	1885.2
65°	20324.8	14630.8	2297.8	1459.9	1498.3	1618.2	1802.1	1827.7	1843.6	1963.6	1979.6
67.5°	18882.6	13137.4	1779.7	1336.8	1384.7	1535.0	1811.7	1990.8	2011.5	2137.9	2136.3
69°	17390.7	11736.6	1546.2	1272.8	1328.8	1555.8	1936.4	2094.7	2016.3	2150.7	2131.5
70°	16140.3	10628.5	1421.5	1229.6	1303.2	1592.6	2019.5	2093.1	1992.4	2107.5	2075.5
72.5°	12430.6	7646.4	1205.6	1149.7	1216.8	1523.8	2043.5	2046.7	1936.4	1958.8	1904.4
75°	8525.9	4832.2	1052.1	1040.9	1085.7	1373.5	1966.8	1955.6	1790.9	1758.9	1714.1
77.5°	4701.1	2454.5	893.8	937.0	967.4	1216.8	1787.7	1771.7	1635.8	1568.6	1552.6
80°	1813.3	1074.5	754.7	833.1	852.3	1053.7	1567.0	1552.6	1439.1	1352.8	1328.8
82.5°	684.4	562.8	623.6	721.1	714.8	869.9	1327.2	1319.2	1208.8	1082.5	1044.1
85°	316.6	337.4	494.1	594.8	548.5	644.4	1061.7	1076.1	941.8	791.5	791.5
87.5°	134.3	188.7	350.2	449.3	369.4	434.9	778.7	743.5	682.8	473.3	444.5
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)