

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: P318420

Luminaire Tested: **GAN-SA6D-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318420
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-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46417 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

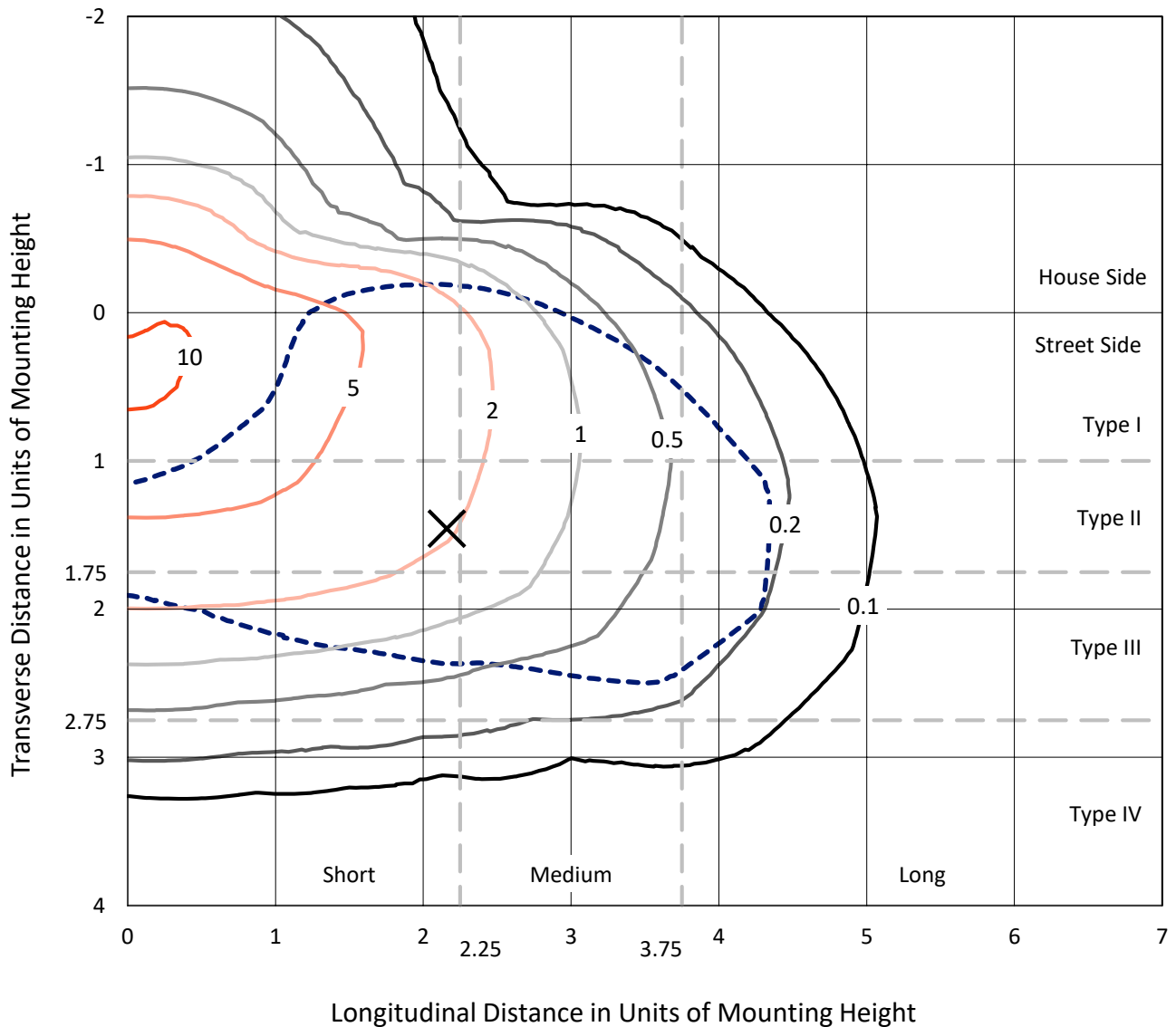
Input Watts (W): 382
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

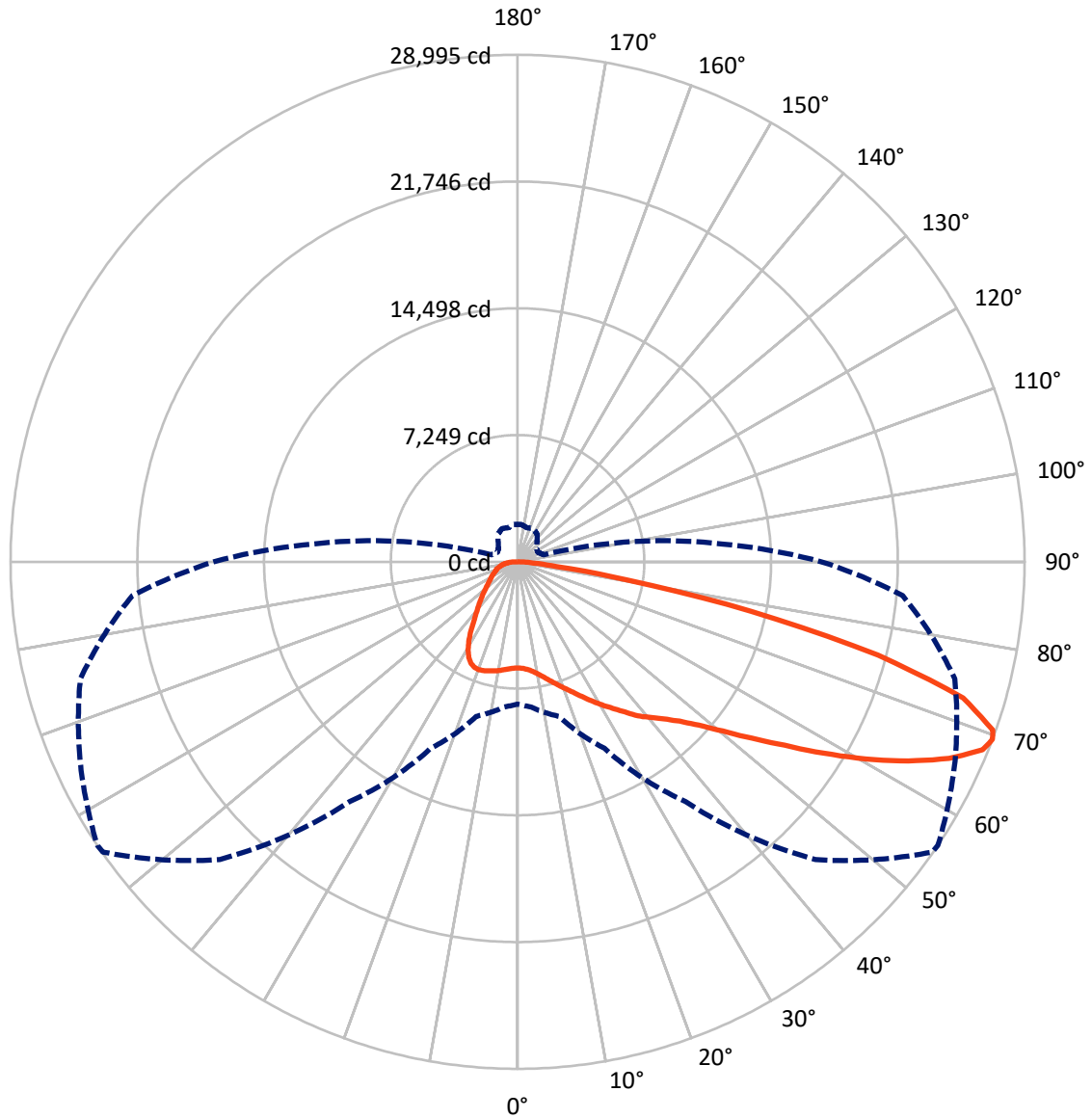
✕ Max cd
 - - - 1/2 Max cd



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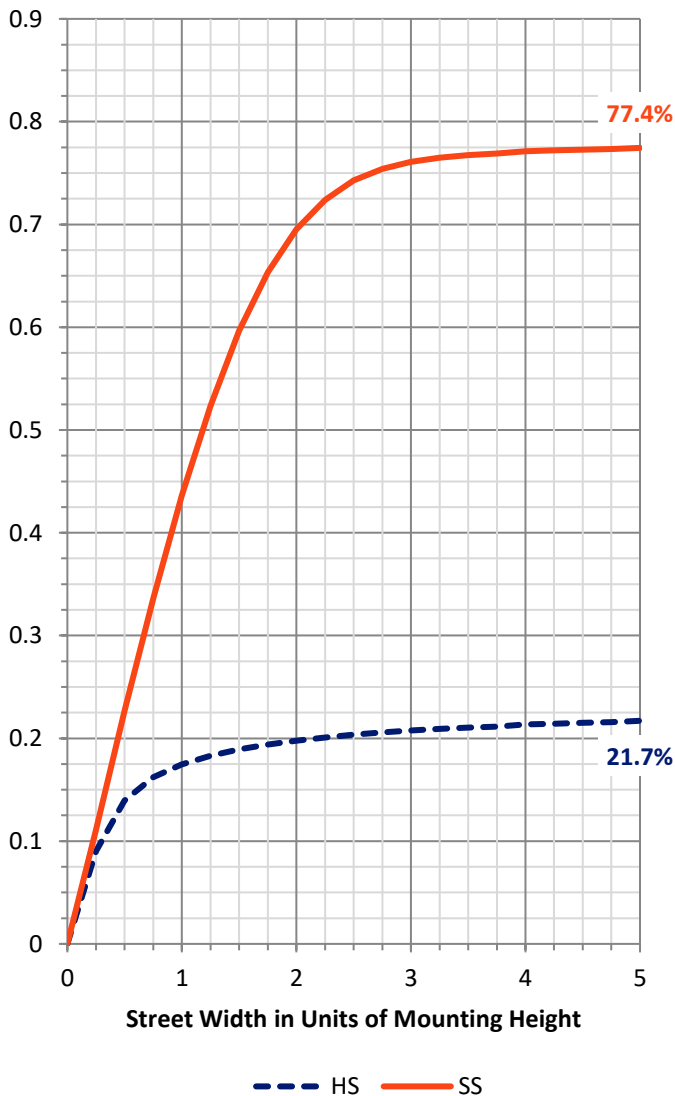
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10337.0	0.0	10337.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	36080.0	0.0	36080.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	46417.0	0.0	46417.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.0	1.3
10°-20°	1916.5	4.1
20°-30°	3345.5	7.2
30°-40°	4805.7	10.4
40°-50°	6650.8	14.3
50°-60°	9744.4	21.0
60°-70°	11880.2	25.6
70°-80°	6568.2	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°	46417.0	100.0
0°-180°	46417.0	100.0



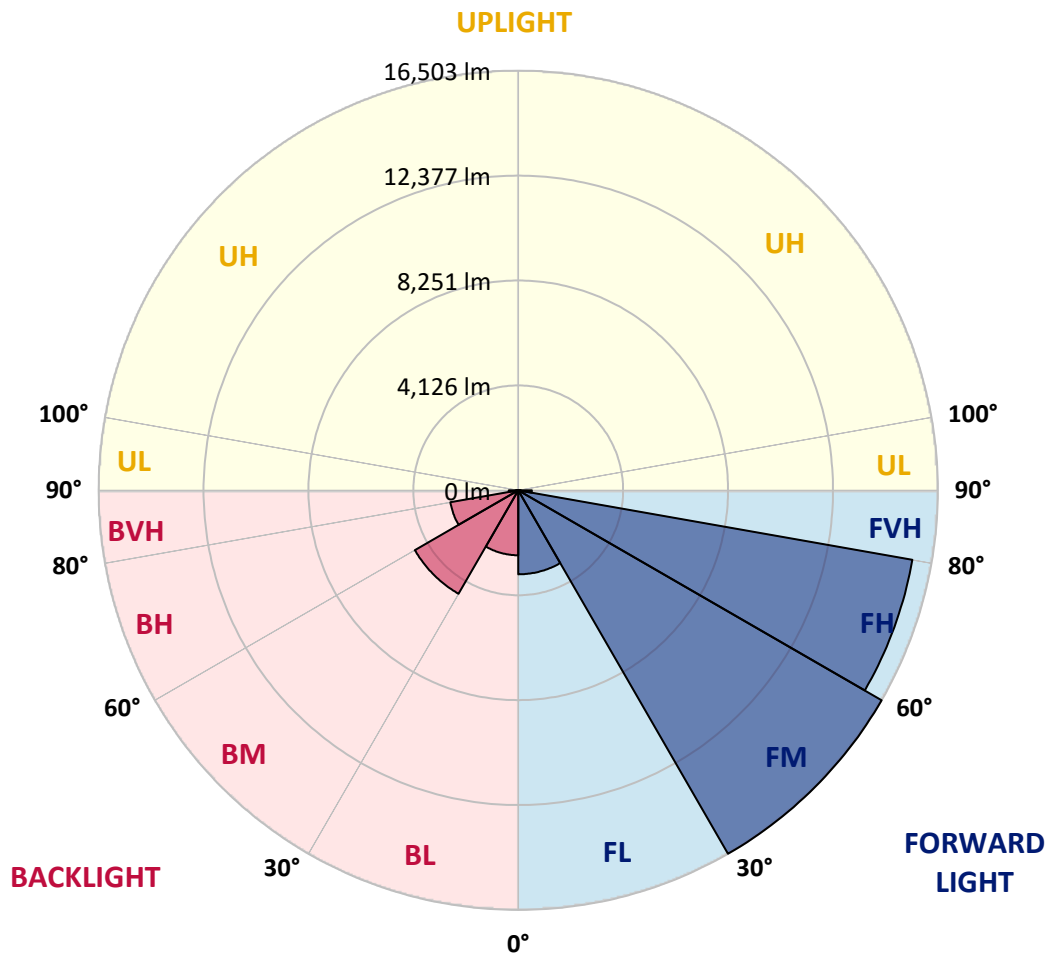
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3303.5	7.1			
FM (30°-60°)	16503.0	35.6			
FH (60°-80°)	15737.7	33.9			G5
FVH (80°-90°)	535.8	1.2			G4/750
BL (0°-30°)	2554.5	5.5	B4/5000		
BM (30°-60°)	4697.9	10.1	B3/5000		
BH (60°-80°)	2710.7	5.8	B4/5000		G4/5000
BVH (80°-90°)	373.9	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°	6068.3	6068.3	6068.3	6068.3	6068.3	6068.3	6068.3	6068.3	6068.3	6068.3	6068.3
2.5°	6106.7	6113.1	6108.3	6121.1	6106.7	6116.3	6108.3	6108.3	6103.5	6089.1	6073.1
5°	6202.6	6215.4	6207.4	6220.2	6202.6	6205.8	6191.4	6191.4	6177.1	6146.7	6114.7
7.5°	6353.0	6367.3	6360.9	6373.7	6349.8	6349.8	6330.6	6329.0	6300.2	6250.6	6213.8
10°	6532.0	6551.2	6544.8	6564.0	6544.8	6551.2	6532.0	6532.0	6493.7	6423.3	6376.9
12.5°	6792.7	6816.7	6799.1	6797.5	6789.5	6802.3	6786.3	6783.1	6747.9	6652.0	6588.0
15°	7141.3	7166.9	7130.1	7126.9	7082.1	7077.3	7077.3	7072.5	7050.1	6935.0	6829.5
17.5°	7542.6	7550.6	7518.6	7467.5	7409.9	7373.1	7368.3	7381.1	7381.1	7246.8	7078.9
20°	7936.0	7950.4	7924.8	7867.2	7793.7	7739.3	7700.9	7726.5	7724.9	7565.0	7326.8
22.5°	8364.5	8398.1	8359.7	8286.2	8199.8	8139.1	8071.9	8094.3	8095.9	7899.2	7569.8
25°	8919.4	8889.0	8865.0	8761.1	8638.0	8575.6	8513.2	8535.6	8529.2	8259.0	7820.9
27.5°	9410.3	9416.7	9384.7	9274.4	9132.1	8994.6	8991.4	9005.7	8981.8	8633.2	8057.5
30°	9981.2	9984.4	9939.6	9840.4	9685.3	9507.8	9466.3	9490.3	9439.1	8988.2	8307.0
32.5°	10548.8	10564.8	10515.2	10395.3	10270.6	10054.7	9971.6	9987.5	9859.6	9351.1	8564.4
35°	11046.1	11068.5	11052.5	10972.6	10836.6	10651.1	10552.0	10542.4	10384.1	9795.7	8905.0
37.5°	11553.0	11573.8	11556.2	11489.0	11434.7	11238.0	11185.2	11185.2	10910.2	10249.8	9338.3
40°	12074.3	12106.3	12085.5	11992.7	11946.4	11856.8	11730.5	11700.1	11402.7	10795.1	10045.1
42.5°	12558.8	12600.4	12683.5	12629.1	12534.8	12547.6	12293.4	12277.4	12059.9	11601.0	10932.6
45°	13246.4	13307.1	13447.9	13406.3	13387.1	13316.7	13014.5	13000.1	12917.0	12685.1	12034.3
47.5°	13996.3	14079.5	14333.7	14341.7	14548.0	14415.3	14004.3	13954.7	13973.9	13983.5	13379.1
50°	14687.1	14778.2	15195.6	15392.3	15878.4	15907.2	15250.0	15205.2	15280.3	15501.0	14946.1
52.5°	15238.8	15353.9	15875.2	16482.8	17315.9	17552.6	16783.4	16749.9	16805.8	17186.4	16717.9
55°	15643.3	15768.0	16335.7	17442.2	18772.6	19190.0	18548.8	18516.8	18552.0	19036.5	18644.7
57.5°	15737.7	15768.0	16591.5	18088.2	20002.3	21004.9	20709.1	20645.1	20472.4	20894.5	20771.4
60°	15294.7	15416.3	16380.5	18315.3	20953.7	22794.2	22966.9	22886.9	22402.4	22747.8	22648.7
62.5°	14396.1	14613.5	15592.2	17969.9	21326.3	24255.7	25181.5	25085.6	24250.9	24474.8	23998.3
65°	12928.2	13020.9	14049.1	16778.6	20853.0	25191.1	27156.3	27108.4	26057.8	25707.6	24247.7
67.5°	10302.6	10476.9	11349.9	14288.9	18916.5	25080.8	28683.4	28678.6	27237.9	26165.0	23363.4
69°	8139.1	8319.8	9151.3	11770.5	16738.7	24071.8	28939.3	28995.2	27570.5	25886.7	22100.2
70°	6488.9	6698.3	7269.2	9914.0	14805.4	22741.4	28726.6	28827.3	27506.5	25427.8	20934.5
72.5°	2761.5	2931.0	3337.2	5110.5	9023.3	16981.7	26265.7	26646.3	26024.2	23272.3	17301.5
75°	1205.7	1258.4	1442.3	2083.5	4005.6	9242.4	20576.3	21279.9	22252.1	19671.3	12888.2
77.5°	882.7	905.1	1005.8	1223.3	1797.3	3490.7	13232.0	13641.3	16047.9	14314.5	7905.6
80°	682.8	698.8	777.1	898.7	1173.7	1411.9	6034.7	6386.5	9023.3	7352.3	3292.4
82.5°	543.7	554.9	609.2	662.0	810.7	855.5	2003.6	2222.7	3330.8	2030.8	871.5
85°	505.3	518.1	537.3	482.9	519.7	502.1	866.7	906.7	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°	6068.3	6068.3	6068.3	6068.3	6068.3	6068.3	6068.3	6068.3	6068.3	6068.3	6068.3
2.5°	6082.7	6077.9	6085.9	6066.7	6090.7	6089.1	6081.1	6084.3	6100.3	6098.7	6100.3
5°	6119.5	6116.3	6125.9	6111.5	6140.3	6149.9	6151.5	6165.9	6183.5	6188.3	6188.3
7.5°	6212.2	6212.2	6217.0	6197.8	6217.0	6215.4	6207.4	6221.8	6239.4	6241.0	6239.4
10°	6372.1	6373.7	6365.7	6316.2	6300.2	6257.0	6217.0	6218.6	6241.0	6258.6	6263.4
12.5°	6573.6	6567.2	6532.0	6440.9	6373.7	6285.8	6244.2	6242.6	6265.0	6279.4	6284.2
15°	6803.9	6786.3	6695.1	6546.4	6428.1	6341.8	6274.6	6258.6	6245.8	6229.8	6231.4
17.5°	7021.3	6981.4	6829.5	6623.2	6498.5	6383.3	6253.8	6149.9	6077.9	6036.3	6023.6
20°	7242.0	7163.7	6944.6	6695.1	6536.8	6327.4	6077.9	5866.8	5735.7	5675.0	5663.8
22.5°	7443.5	7317.2	7051.7	6770.3	6506.5	6138.7	5746.9	5439.9	5257.6	5176.1	5182.5
25°	7640.2	7464.3	7163.7	6823.1	6353.0	5806.1	5286.4	4909.0	4698.0	4606.8	4603.6
27.5°	7812.9	7613.0	7285.2	6779.9	6066.7	5332.8	4741.1	4373.4	4197.5	4119.1	4106.3
30°	8011.1	7800.1	7446.7	6615.2	5647.8	4785.9	4208.7	3949.6	3824.9	3746.5	3732.1
32.5°	8252.6	8054.3	7579.4	6316.2	5112.1	4215.0	3792.9	3612.2	3498.7	3410.7	3394.7
35°	8604.4	8390.1	7613.0	5887.6	4523.7	3764.1	3487.5	3302.0	3148.5	3035.0	3023.8
37.5°	9045.7	8810.7	7536.2	5332.8	3952.8	3471.5	3233.2	3004.6	2804.7	2644.8	2619.2
40°	9682.1	9327.1	7323.6	4693.2	3532.3	3246.0	2985.4	2724.7	2476.9	2289.8	2253.0
42.5°	10446.5	9933.2	6997.4	4056.7	3223.6	3017.4	2739.1	2416.1	2179.5	2046.8	2027.6
45°	11418.7	10563.2	6544.8	3500.3	2919.8	2788.7	2473.7	2176.3	2029.2	1931.6	1915.6
47.5°	12528.4	11270.0	6069.9	3047.8	2662.4	2574.4	2261.0	2069.1	1952.4	1875.7	1861.3
50°	13892.4	12067.9	5566.2	2676.8	2403.3	2317.0	2160.3	2010.0	1917.2	1858.1	1843.7
52.5°	15430.7	12968.1	5203.2	2384.2	2189.1	2126.7	2107.5	1978.0	1902.8	1858.1	1843.7
55°	17087.2	13884.4	4811.5	2137.9	2003.6	2021.2	2072.3	1981.2	1930.0	1875.7	1854.9
57.5°	18745.4	14831.0	4374.9	1930.0	1856.5	1942.8	2048.4	1987.6	1944.4	1891.7	1872.5
60°	20056.7	15430.7	3698.6	1755.7	1739.7	1856.5	1990.8	1939.6	1883.7	1885.3	1882.1
62.5°	20669.1	15398.7	2951.8	1600.6	1623.0	1739.7	1898.1	1864.5	1818.1	1880.5	1885.3
65°	20325.3	14631.1	2297.8	1459.9	1498.3	1618.2	1802.1	1827.7	1843.7	1963.6	1979.6
67.5°	18883.0	13137.6	1779.7	1336.8	1384.8	1535.1	1811.7	1990.8	2011.6	2137.9	2136.3
69°	17391.1	11736.9	1546.3	1272.8	1328.8	1555.9	1936.4	2094.7	2016.4	2150.7	2131.5
70°	16140.6	10628.8	1421.5	1229.7	1303.2	1592.6	2019.6	2093.1	1992.4	2107.5	2075.5
72.5°	12430.9	7646.6	1205.7	1149.7	1216.9	1523.9	2043.6	2046.8	1936.4	1958.8	1904.4
75°	8526.0	4832.3	1052.2	1041.0	1085.7	1373.6	1966.8	1955.6	1790.9	1758.9	1714.2
77.5°	4701.2	2454.5	893.9	937.0	967.4	1216.9	1787.7	1771.7	1635.8	1568.6	1552.7
80°	1813.3	1074.5	754.7	833.1	852.3	1053.8	1567.1	1552.7	1439.1	1352.8	1328.8
82.5°	684.4	562.9	623.6	721.2	714.8	869.9	1327.2	1319.2	1208.9	1082.5	1044.2
85°	316.6	337.4	494.1	594.8	548.5	644.4	1061.8	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)