

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: P317779

Luminaire Tested: **GAN-SA5D-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39651 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

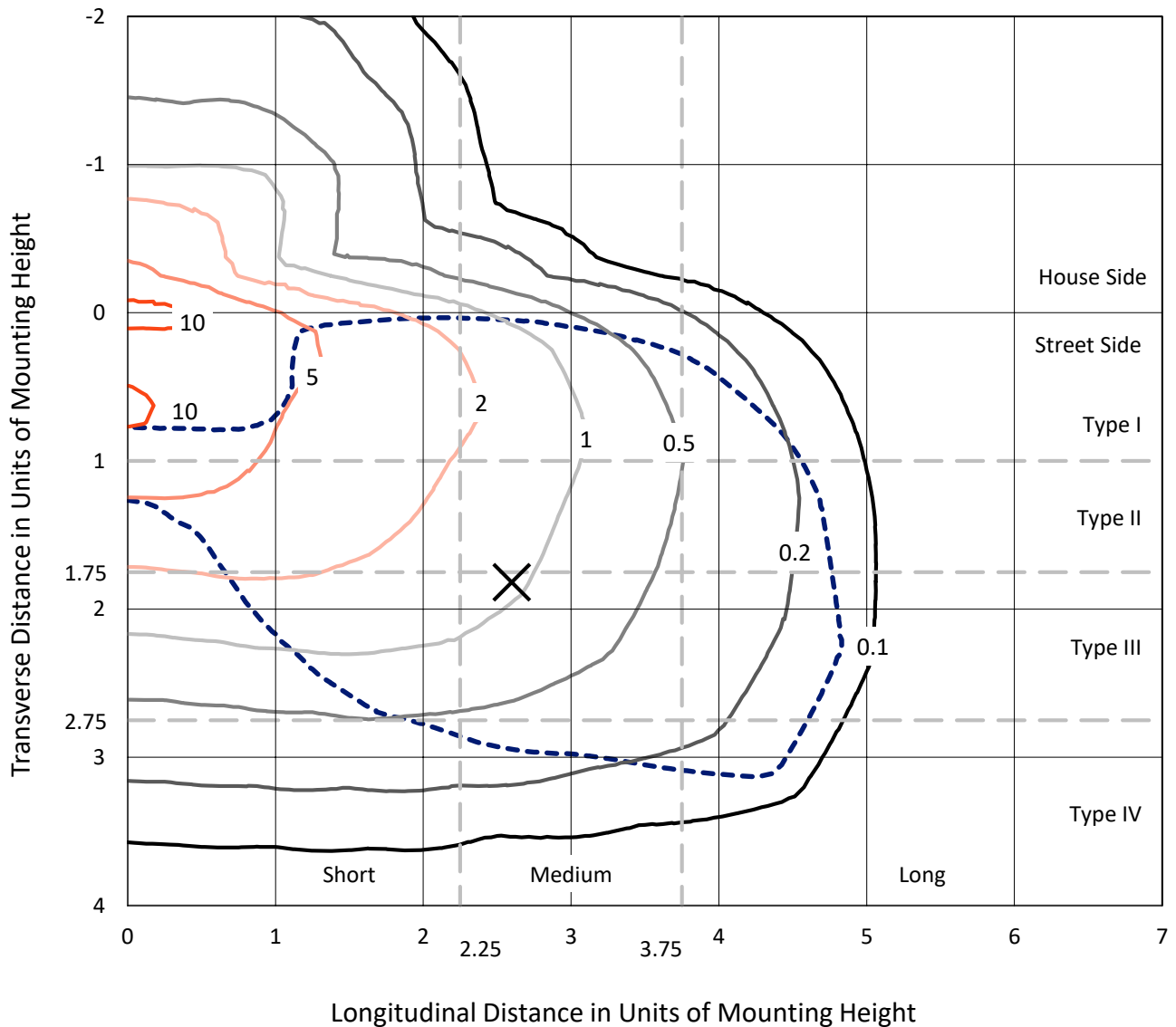
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

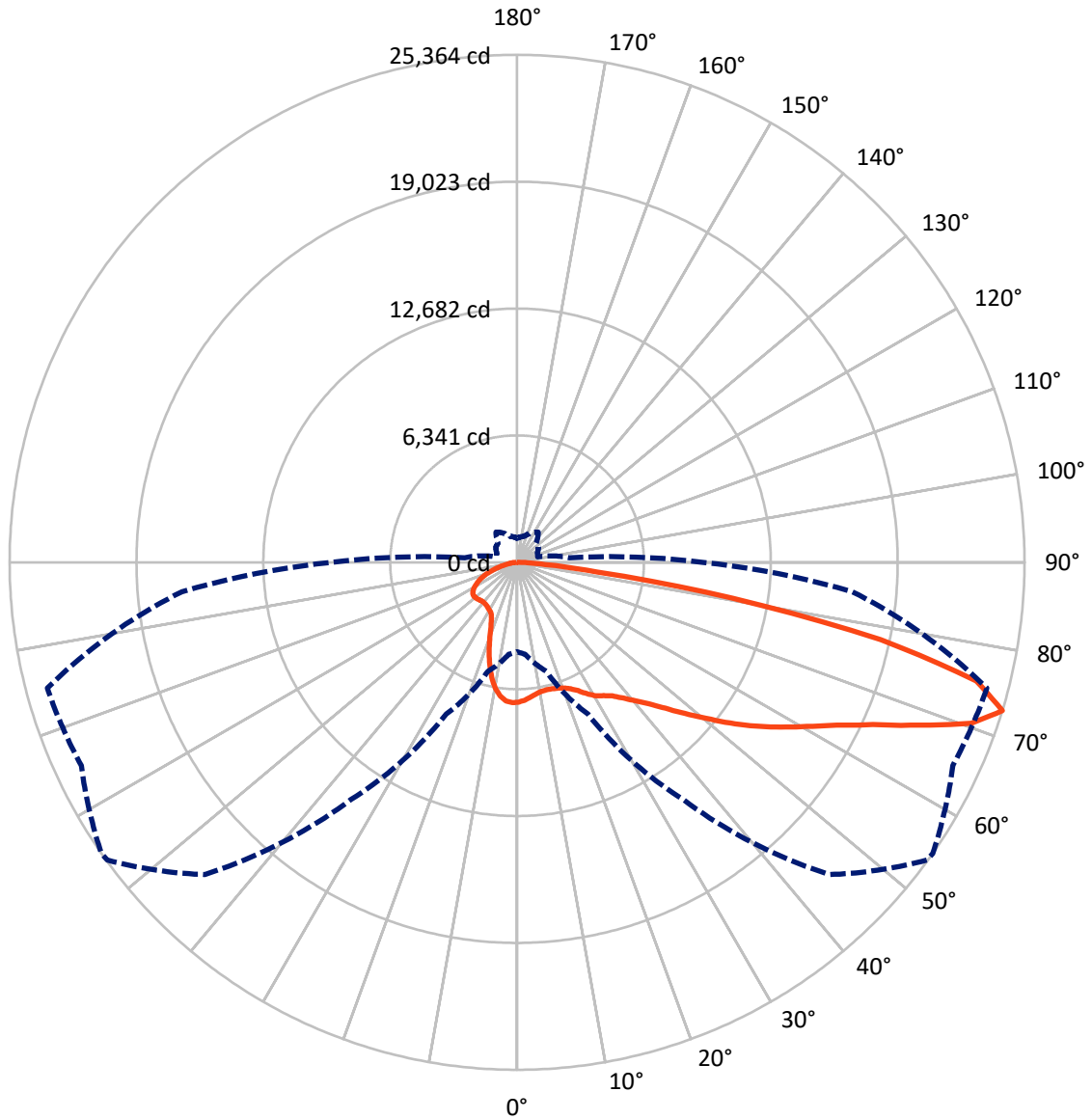
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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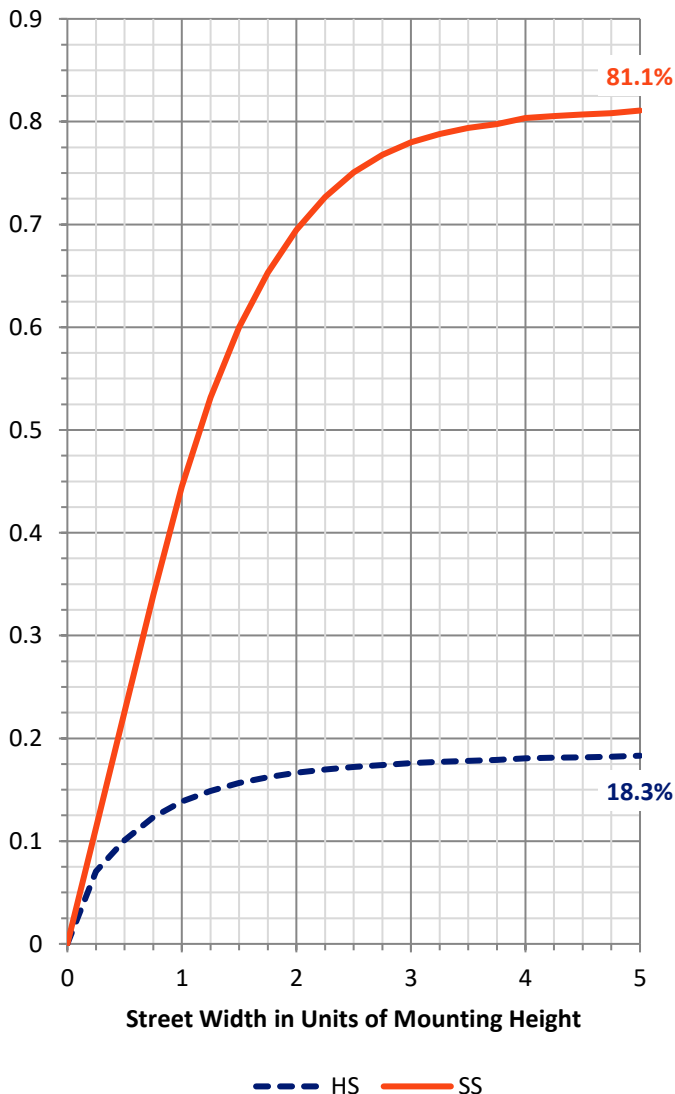
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7369.8	0.0	7369.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	32281.2	0.0	32281.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	39651.0	0.0	39651.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.8	1.6
10°-20°	1684.8	4.2
20°-30°	2777.9	7.0
30°-40°	4109.2	10.4
40°-50°	5735.6	14.5
50°-60°	7467.9	18.8
60°-70°	9177.8	23.1
70°-80°	7194.3	18.1
80°-90°	870.6	2.2
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°	39651.0	100.0
0°-180°	39651.0	100.0

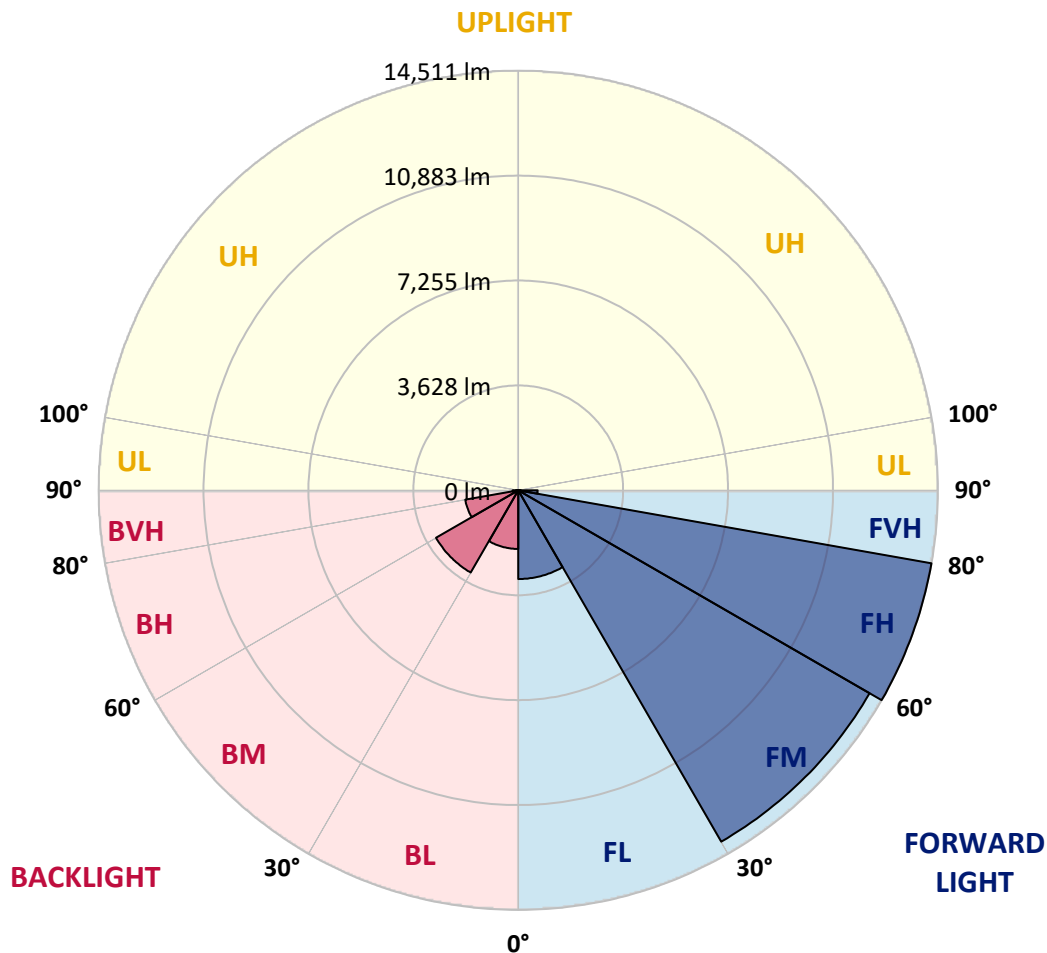


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3067.8	7.7			
FM (30°-60°)	14029.3	35.4			
FH (60°-80°)	14510.9	36.6			G5
FVH (80°-90°)	673.1	1.7			G4/750
BL (0°-30°)	2027.7	5.1	B3/2500		
BM (30°-60°)	3283.4	8.3	B3/5000		
BH (60°-80°)	1861.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	197.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6
2.5°	6765.9	6749.8	6769.9	6798.1	6828.9	6870.4	6894.5	6905.2	6946.7	6962.8	6997.6
5°	6452.5	6444.5	6478.0	6526.2	6594.5	6690.9	6768.6	6783.3	6893.1	6970.8	7041.8
7.5°	6224.9	6224.9	6263.7	6321.3	6397.6	6527.5	6637.3	6657.4	6843.6	7011.0	7142.2
10°	6044.1	6050.7	6096.3	6164.6	6254.3	6392.3	6538.2	6561.0	6830.2	7104.7	7313.7
12.5°	5923.5	5939.6	5981.1	6042.7	6153.9	6321.3	6506.1	6536.9	6858.3	7238.7	7519.9
15°	5999.9	6026.6	6030.7	6056.1	6117.7	6299.8	6524.8	6557.0	6918.6	7375.3	7754.3
17.5°	6334.7	6344.0	6302.5	6249.0	6219.5	6336.0	6581.1	6614.6	6990.9	7510.5	7979.3
20°	6843.6	6838.2	6748.5	6603.9	6453.9	6472.6	6673.5	6708.3	7088.7	7629.7	8204.3
22.5°	7486.4	7467.7	7329.7	7063.2	6807.4	6700.3	6835.6	6865.0	7236.0	7799.8	8445.3
25°	8265.9	8224.4	8042.2	7684.6	7308.3	7032.4	7079.3	7107.4	7450.3	7990.0	8666.3
27.5°	9088.2	9046.7	8815.0	8382.4	7881.5	7451.6	7415.4	7439.6	7694.0	8130.6	8829.7
30°	9948.0	9903.8	9692.2	9207.4	8489.5	7885.5	7728.8	7738.2	7865.4	8206.9	8963.6
32.5°	10811.8	10770.3	10533.2	9970.7	9149.8	8351.6	7955.2	7943.1	7968.6	8286.0	9115.0
35°	11687.7	11703.7	11426.5	10803.8	9881.0	8869.9	8223.0	8197.6	8141.3	8448.0	9329.2
37.5°	12625.1	12614.4	12255.5	11604.6	10645.7	9432.4	8607.4	8603.4	8409.2	8754.7	9665.4
40°	13251.9	13258.6	13040.3	12424.3	11418.5	10055.1	9100.2	9090.9	8836.4	9214.1	10106.0
42.5°	13497.0	13541.2	13597.4	13206.4	12227.4	10777.0	9688.2	9674.8	9432.4	9873.0	10624.3
45°	13514.4	13602.8	13951.0	13901.5	13047.0	11603.3	10439.5	10402.0	10227.9	10748.9	11243.0
47.5°	13364.4	13455.5	14034.0	14315.3	13779.6	12475.1	11318.0	11288.6	11138.6	11844.4	11912.7
50°	13036.3	13123.3	13862.6	14517.5	14382.2	13313.5	12330.5	12252.8	12172.5	13110.0	12678.7
52.5°	12421.6	12589.0	13633.6	14565.7	14742.5	14058.1	13395.2	13344.3	13388.5	14445.2	13446.1
55°	10965.8	11153.3	13043.0	14525.5	15009.0	14683.6	14459.9	14457.2	14686.3	15846.1	14269.7
57.5°	10150.2	10282.8	11840.3	14457.2	15325.1	15305.0	15513.9	15539.4	15985.3	17371.5	15132.2
60°	9689.5	9828.8	11231.0	14204.1	15815.2	16108.5	16589.3	16640.2	17305.8	19060.3	16170.2
62.5°	9270.3	9423.0	10853.3	13688.5	16392.5	17257.6	17877.7	17923.2	18704.0	20795.9	17173.3
65°	8553.8	8726.6	10300.2	13349.7	16917.5	18756.2	19515.6	19546.4	20309.8	22614.6	17940.6
67.5°	7541.3	7699.4	9256.9	12601.0	17305.8	20576.3	21693.2	21710.6	21902.2	23899.0	18333.0
70°	6358.8	6419.0	7770.4	11055.5	16846.5	22278.5	24079.8	24083.8	23353.9	24721.3	18268.8
72.5°	4467.8	4609.7	5640.9	8369.0	14477.3	22070.9	25318.6	25364.1	24028.9	24306.1	16809.0
75°	2740.1	2890.1	3538.3	5071.8	9184.6	17358.1	23392.7	23708.8	22763.3	21671.8	13731.4
77.5°	1832.1	1888.3	2308.9	2957.1	4161.1	9986.8	17984.8	18579.5	18910.3	15804.5	8781.5
80°	1021.9	1129.0	1530.8	1837.5	1850.8	3968.2	10783.7	10923.0	10521.2	6293.2	2709.3
82.5°	541.1	600.0	1021.9	1079.4	1009.8	1328.5	4019.1	4023.1	3361.5	1687.5	804.9
85°	419.2	468.7	700.4	658.9	515.6	589.3	1325.9	1398.2	1143.7	691.1	262.5
87.5°	208.9	259.8	475.4	417.8	202.2	168.7	474.1	506.2	451.3	270.5	95.1
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°	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6
2.5°	7011.0	7023.0	7037.8	7021.7	7016.4	6994.9	6958.8	6950.7	6932.0	6933.3	6944.0
5°	7072.6	7092.7	7084.7	7023.0	6949.4	6846.3	6739.1	6648.1	6587.8	6583.8	6579.8
7.5°	7190.5	7203.8	7140.9	6965.5	6759.2	6520.8	6295.8	6099.0	5979.8	5950.3	5943.6
10°	7375.3	7372.6	7199.8	6846.3	6435.1	6009.2	5647.6	5374.4	5215.1	5168.2	5156.1
12.5°	7581.5	7550.7	7219.9	6629.3	5977.1	5386.5	4928.5	4624.4	4458.4	4404.8	4391.4
15°	7794.5	7718.1	7170.4	6305.2	5414.6	4715.5	4234.7	3953.5	3863.7	3834.3	3828.9
17.5°	7992.7	7845.3	7028.4	5865.9	4773.1	4047.2	3672.2	3559.7	3581.2	3620.0	3621.3
20°	8186.9	7931.1	6800.7	5311.5	4096.8	3496.8	3369.6	3452.6	3554.4	3633.4	3644.1
22.5°	8378.4	7991.3	6507.4	4671.3	3491.4	3187.4	3277.2	3428.5	3545.0	3630.7	3645.4
25°	8539.1	8006.1	6103.0	3988.3	3070.9	3070.9	3233.0	3376.3	3491.4	3575.8	3590.5
27.5°	8598.0	7907.0	5532.5	3356.2	2859.3	3017.3	3171.4	3290.5	3388.3	3478.0	3494.1
30°	8620.8	7723.5	4873.5	2848.6	2772.3	2959.8	3088.3	3190.1	3282.5	3366.9	3381.6
32.5°	8624.8	7502.5	4174.5	2560.7	2712.0	2899.5	2985.2	3074.9	3174.0	3207.5	3212.9
35°	8650.2	7241.3	3437.9	2413.3	2655.7	2843.2	2911.5	2975.8	2815.1	2827.2	2837.9
37.5°	8723.9	6982.9	2821.8	2330.3	2619.6	2813.8	2895.5	2662.4	2536.5	2507.1	2503.1
40°	8861.8	6707.0	2365.1	2263.3	2606.2	2828.5	2792.3	2485.7	2268.7	2106.6	2082.5
42.5°	9053.4	6409.7	2073.2	2219.1	2615.6	2899.5	2649.0	2315.6	1955.3	1850.8	1837.5
45°	9269.0	6097.6	1915.1	2188.3	2647.7	2954.4	2619.6	2089.2	1809.3	1730.3	1723.6
47.5°	9477.9	5715.9	1833.4	2174.9	2691.9	2910.2	2495.0	2019.6	1739.7	1698.2	1702.2
50°	9717.6	5371.7	1783.9	2160.2	2730.7	2882.1	2354.4	1983.4	1712.9	1763.8	1817.4
52.5°	9919.9	5015.5	1739.7	2130.8	2745.5	2832.5	2318.2	1990.1	1712.9	1810.7	1861.6
55°	10159.6	4746.3	1688.8	2069.1	2717.3	2691.9	2292.8	2030.3	1733.0	1671.4	1676.7
57.5°	10468.9	4657.9	1632.6	1972.7	2623.6	2487.0	2280.7	2069.1	1720.9	1682.1	1695.5
60°	10897.5	4751.7	1609.8	1846.8	2477.6	2326.3	2282.1	2049.1	1636.6	1569.6	1570.9
62.5°	11306.0	4856.1	1608.4	1767.8	2298.2	2183.0	2251.3	1983.4	1593.7	1554.9	1569.6
65°	11439.9	4750.3	1544.2	1679.4	2095.9	2011.6	2195.0	1913.8	1561.6	1502.6	1500.0
67.5°	11260.4	4422.2	1414.3	1536.1	1864.2	1812.0	2121.4	1830.8	1510.7	1462.5	1454.4
70°	10727.4	3689.6	1253.5	1347.3	1600.4	1587.0	2004.9	1734.3	1442.4	1400.9	1366.0
72.5°	9293.1	2629.0	1056.7	1121.0	1303.1	1346.0	1844.2	1608.4	1346.0	1256.2	1202.6
75°	7632.4	1945.9	867.8	881.2	989.7	1106.2	1623.2	1461.1	1232.1	1079.4	1037.9
77.5°	4674.0	1190.6	691.1	696.4	709.8	882.6	1336.6	1296.4	1087.5	900.0	870.5
80°	1513.4	649.5	499.5	525.0	484.8	646.9	1033.9	1103.5	933.5	752.7	720.5
82.5°	575.9	379.0	337.5	354.9	336.2	433.9	754.0	883.9	764.7	618.7	503.6
85°	278.6	214.3	199.5	223.7	207.6	222.3	482.1	650.9	579.9	403.1	375.0
87.5°	99.1	95.1	76.3	103.1	88.4	79.0	147.3	328.1	383.0	277.2	247.8
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)