

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: P319402

Luminaire Tested: **GAN-SA8B-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44866 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

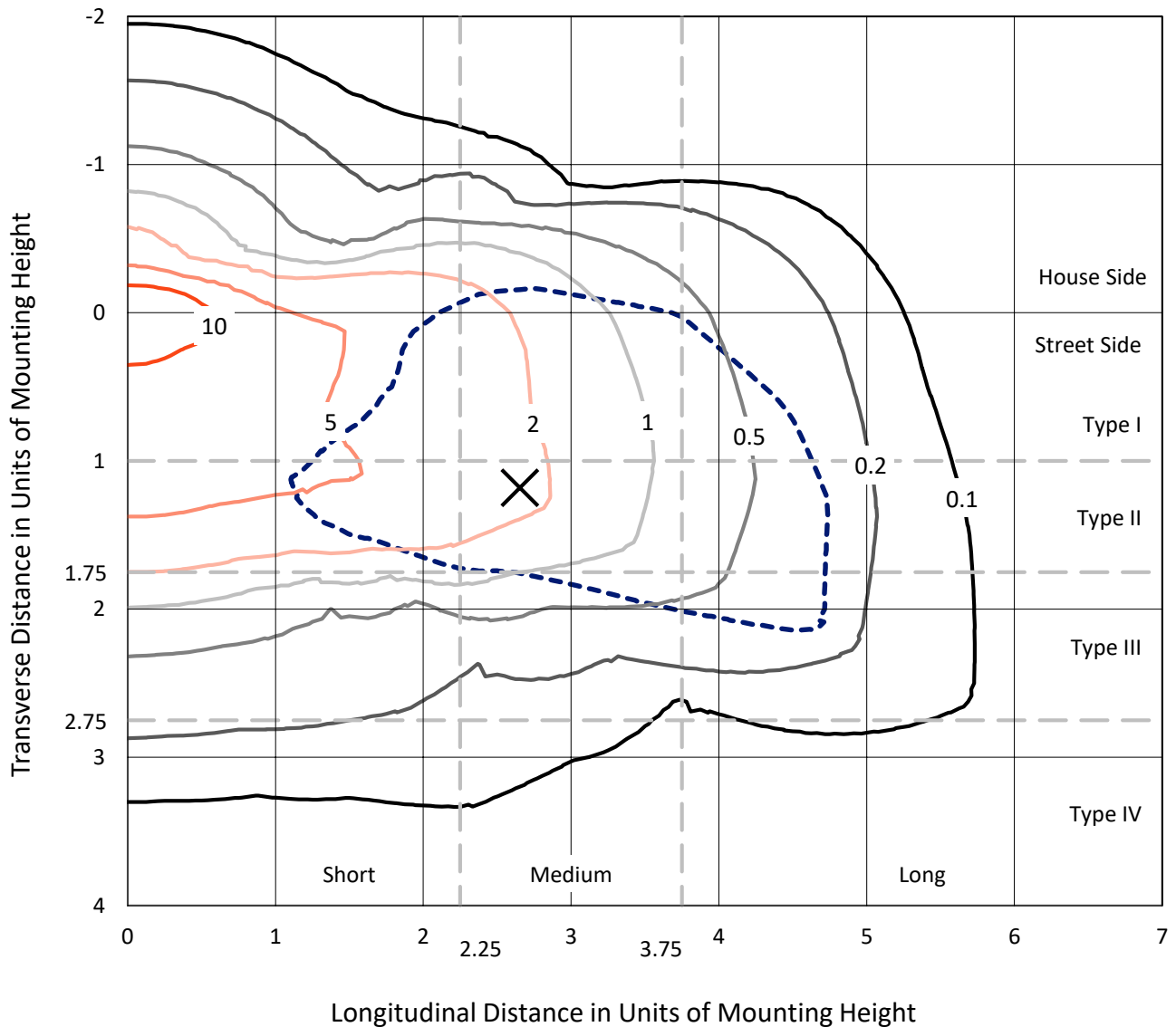
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

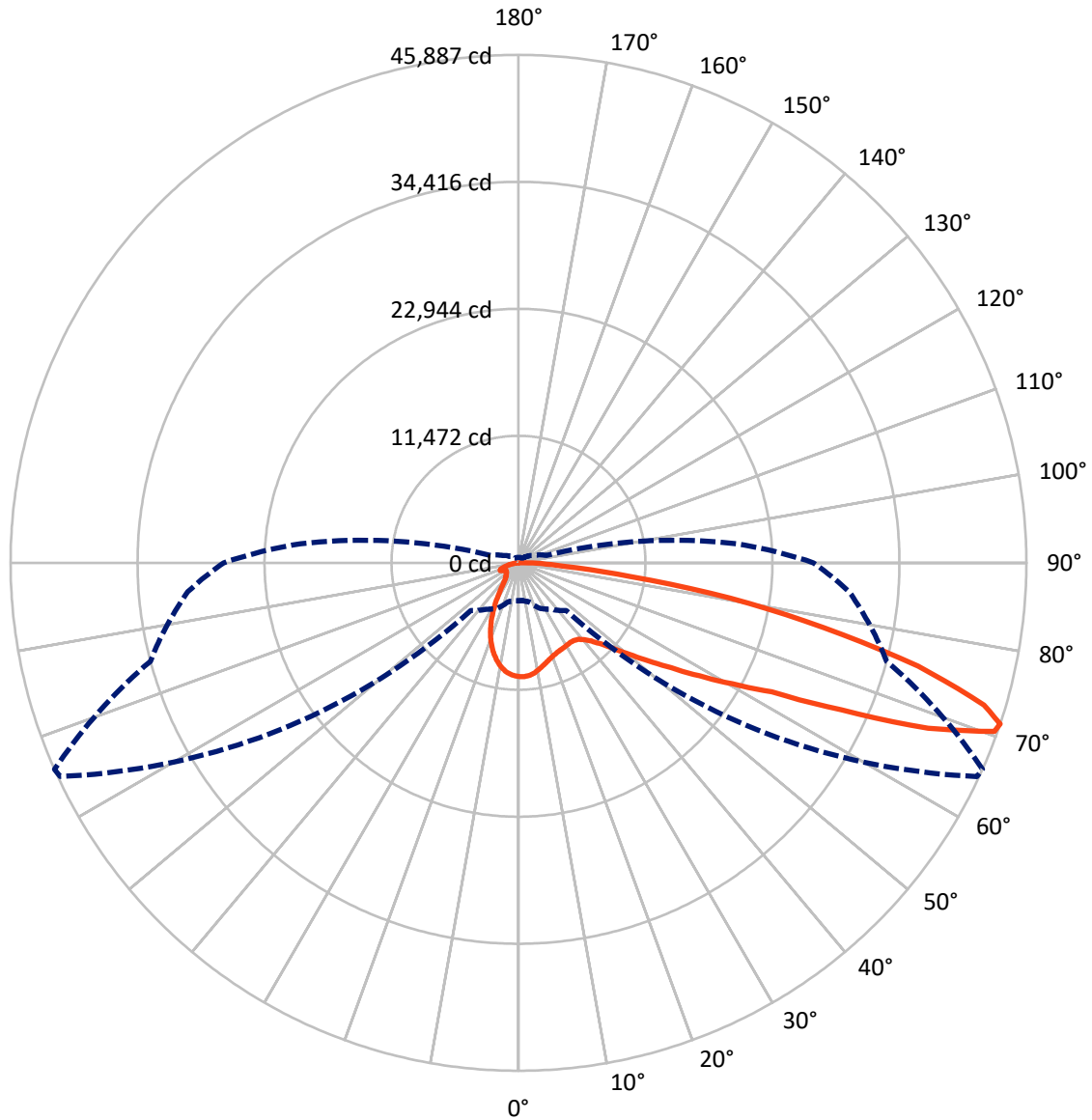
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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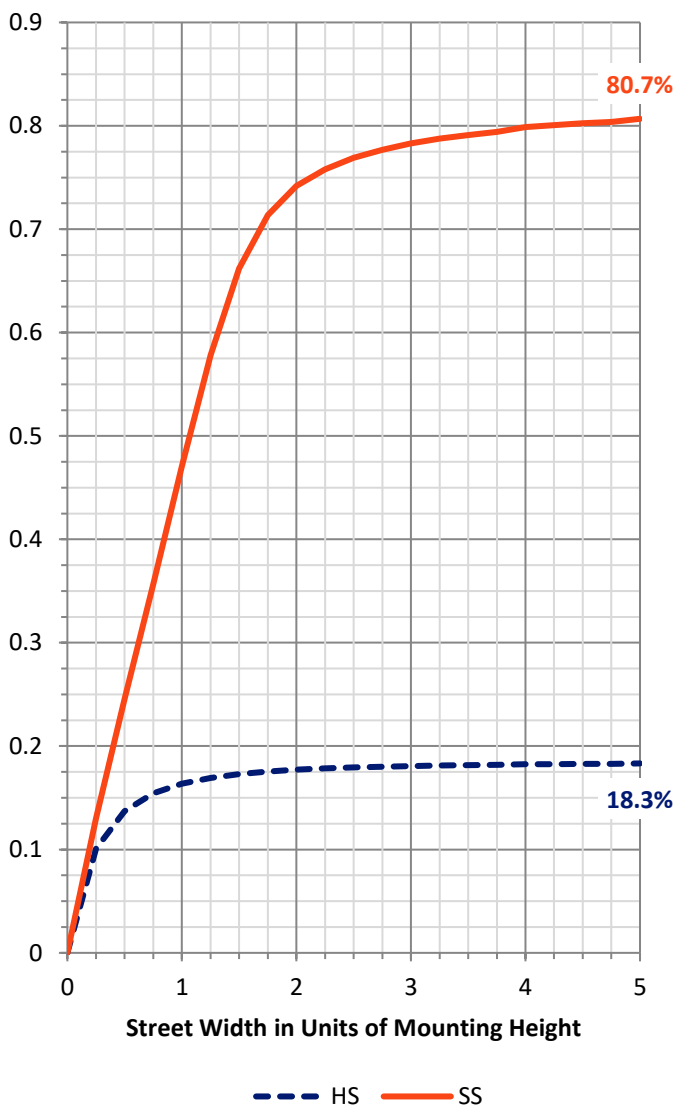
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8314.9	0.0	8314.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	36551.1	0.0	36551.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	44866.0	0.0	44866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	904.7	2.0
10°-20°	2169.9	4.8
20°-30°	2914.7	6.5
30°-40°	3834.2	8.5
40°-50°	5577.8	12.4
50°-60°	8713.1	19.4
60°-70°	10914.5	24.3
70°-80°	8325.4	18.6
80°-90°	1511.8	3.4
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°	44866.0	100.0
0°-180°	44866.0	100.0

Coefficient of Utilization

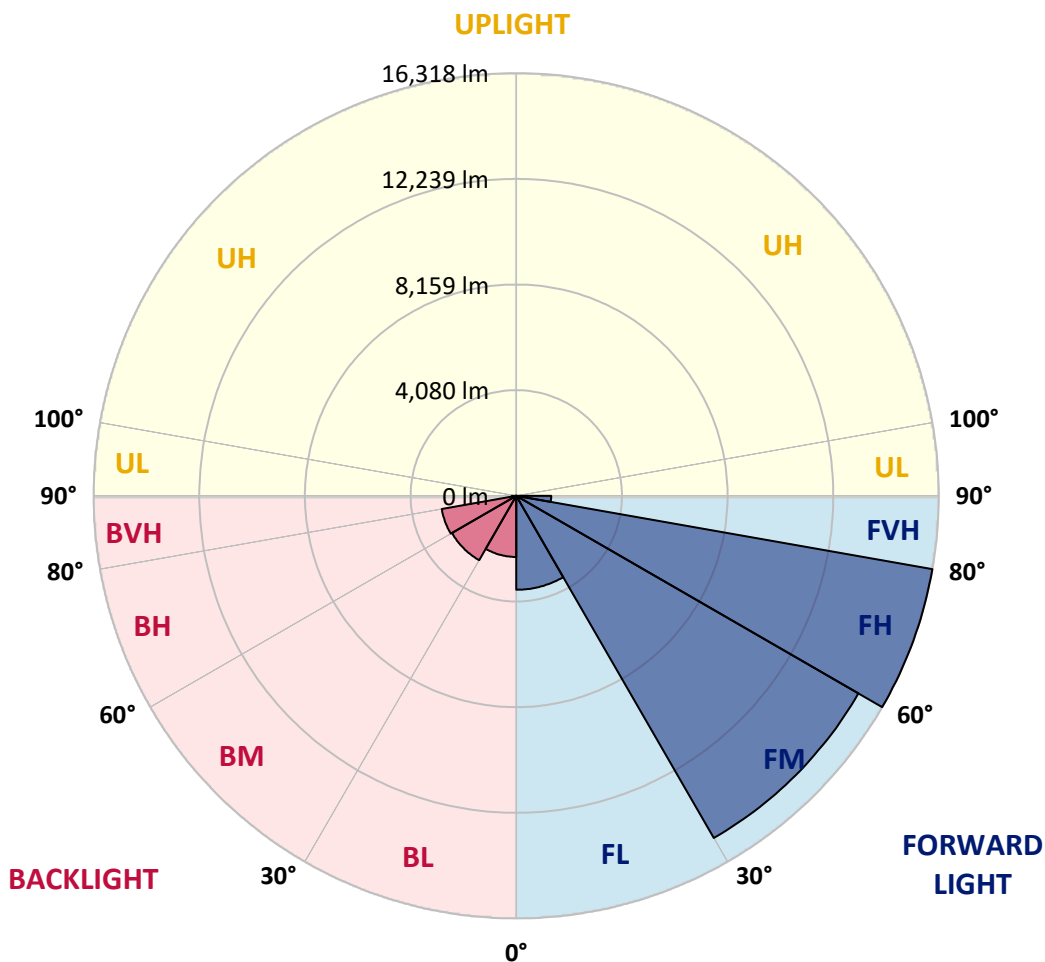


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3628.0	8.1			
FM (30°-60°)	15256.7	34.0			
FH (60°-80°)	16318.2	36.4			G5
FVH (80°-90°)	1348.1	3.0			G5
BL (0°-30°)	2361.2	5.3	B3/2500		
BM (30°-60°)	2868.4	6.4	B3/5000		
BH (60°-80°)	2921.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	163.7	0.4			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10277.9	10277.9	10277.9	10277.9	10277.9	10277.9	10277.9	10277.9	10277.9	10277.9	10277.9
2.5°	10087.4	10071.9	10118.4	10166.4	10185.0	10216.0	10262.4	10288.8	10287.2	10291.9	10276.4
5°	9418.2	9398.1	9491.0	9566.9	9712.5	9876.7	10076.6	10219.1	10222.2	10302.7	10324.4
7.5°	8784.6	8770.7	8877.6	9000.0	9168.8	9419.8	9743.5	10050.2	10068.8	10287.2	10363.1
10°	8276.6	8273.5	8377.3	8510.5	8707.2	8987.6	9359.3	9808.6	9836.5	10212.9	10369.3
12.5°	7880.0	7886.2	7976.0	8127.9	8335.4	8628.2	9030.9	9537.5	9582.4	10095.1	10333.7
15°	7587.2	7612.0	7684.8	7838.2	8042.7	8340.1	8753.7	9286.5	9354.7	9963.5	10313.6
17.5°	7419.9	7447.8	7498.9	7626.0	7818.0	8104.6	8496.5	9080.5	9142.5	9862.8	10315.1
20°	7370.4	7393.6	7423.0	7500.5	7663.1	7923.4	8293.6	8894.6	8961.2	9782.2	10330.6
22.5°	7468.0	7485.0	7488.1	7481.9	7581.0	7793.3	8146.4	8758.3	8829.6	9729.6	10341.4
25°	7677.1	7700.3	7683.3	7626.0	7593.4	7723.6	8070.5	8668.5	8739.7	9690.8	10319.8
27.5°	7991.5	7994.6	7980.7	7906.3	7753.0	7731.3	8047.3	8615.8	8684.0	9645.9	10274.8
30°	8419.1	8439.2	8414.4	8313.7	8062.8	7855.2	8075.2	8564.7	8626.6	9588.6	10202.0
32.5°	8919.4	8969.0	8967.4	8862.1	8502.7	8132.5	8189.8	8533.7	8581.7	9528.2	10113.7
35°	9438.3	9506.5	9633.5	9588.6	9144.0	8570.9	8409.8	8583.3	8615.8	9520.4	10051.8
37.5°	9977.4	10045.6	10307.4	10428.2	9907.7	9198.2	8756.8	8758.3	8773.8	9614.9	10047.1
40°	10541.3	10614.1	11007.5	11322.0	10897.6	9992.9	9316.0	9123.9	9106.9	9847.3	10138.5
42.5°	11331.3	11396.3	11868.8	12270.0	11995.8	11010.6	10088.9	9687.7	9652.1	10302.7	10431.3
45°	12330.4	12386.2	12888.1	13317.2	13176.2	12172.4	11060.2	10463.8	10457.6	11061.8	11024.6
47.5°	13518.5	13561.9	14012.7	14427.8	14478.9	13509.2	12280.9	11661.2	11560.5	12102.7	11943.2
50°	14756.2	14804.2	15111.0	15557.1	15936.6	15298.4	13851.6	13128.2	12993.4	13476.7	13244.4
52.5°	15575.7	15639.2	15905.6	16471.0	17575.5	17259.5	15708.9	14906.5	14702.0	15141.9	14963.8
55°	15210.1	15352.6	15760.0	16666.2	18886.0	20255.3	17999.9	16980.7	16749.9	17115.4	17010.1
57.5°	13548.0	13743.2	14299.3	15698.1	19070.3	22894.9	21463.6	19423.5	19260.9	19155.5	19203.5
60°	10510.3	10697.7	11387.1	13210.3	17786.2	24821.9	26676.2	22434.9	22199.4	21203.4	21246.7
62.5°	7438.5	7344.0	7816.5	9150.2	14452.6	25048.1	32607.5	26462.4	25687.9	23365.8	23175.3
65°	5672.6	5650.9	5863.1	6287.6	8753.7	22341.9	36140.8	33231.7	32021.9	25909.4	25460.1
67.5°	4661.1	4622.4	4831.5	5449.6	5637.0	14413.9	36218.3	41085.4	39897.3	29075.6	28102.8
70°	3832.3	3789.0	3984.2	4781.9	5209.4	7310.0	30482.2	45684.5	45621.0	33084.6	30098.0
71°	3435.8	3404.8	3638.7	4524.8	5118.1	6092.4	26318.3	45696.9	45887.4	34441.5	29980.3
72.5°	2797.6	2808.4	3056.3	4027.5	5049.9	5379.8	19343.0	43567.0	43969.7	35735.0	28909.9
75°	1858.9	1868.2	2193.5	3098.1	4896.5	5263.7	10631.1	36557.5	37298.0	34960.5	26380.3
77.5°	1248.5	1245.4	1466.9	2125.3	4266.1	5263.7	6233.4	27342.2	28155.5	27817.8	20337.4
80°	859.7	853.5	1010.0	1466.9	3229.8	5327.2	4819.1	19161.7	19408.0	15022.7	8265.7
82.5°	526.7	531.3	659.9	1036.3	2198.1	4794.3	4549.6	10448.3	10180.3	4213.4	2064.9
85°	302.1	300.5	421.3	701.7	1411.2	4046.1	4436.5	4496.9	4125.1	1268.7	746.6
87.5°	108.4	116.2	226.2	388.8	808.6	2817.7	3764.2	2339.1	2108.3	573.1	337.7
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°	10277.9	10277.9	10277.9	10277.9	10277.9	10277.9	10277.9	10277.9	10277.9	10277.9	10277.9
2.5°	10265.5	10274.8	10264.0	10202.0	10149.4	10064.2	10016.1	9949.5	9929.4	9920.1	9944.9
5°	10304.3	10307.4	10216.0	10053.3	9870.5	9655.2	9500.3	9309.8	9219.9	9181.2	9206.0
7.5°	10339.9	10326.0	10126.1	9814.8	9477.1	9102.2	8769.2	8464.0	8285.9	8213.1	8219.2
10°	10344.5	10285.7	9965.0	9483.3	8959.7	8409.8	7898.6	7427.7	7130.3	6936.6	6995.5
12.5°	10296.5	10197.4	9728.0	9054.2	8327.7	7577.9	6887.1	6180.7	5756.3	5559.5	5565.7
15°	10259.3	10079.7	9436.8	8549.2	7573.3	6580.4	5637.0	4806.7	4354.4	4153.0	4058.5
17.5°	10228.4	9952.6	9099.1	7980.7	6682.6	5423.2	4289.3	3548.9	3301.0	3242.2	3217.4
20°	10185.0	9817.9	8722.7	7322.3	5668.0	4128.2	3132.2	2766.6	2768.1	2836.3	2845.6
22.5°	10124.6	9664.5	8321.5	6583.5	4579.0	3006.7	2455.2	2349.9	2456.8	2586.9	2610.1
25°	10034.7	9483.3	7875.4	5767.1	3491.6	2311.2	2097.4	2092.8	2222.9	2359.2	2379.3
27.5°	9907.7	9246.3	7379.7	4890.3	2573.0	1964.2	1879.0	1911.5	2007.6	2106.7	2114.5
30°	9737.3	8970.5	6832.8	3965.6	2016.9	1748.9	1739.6	1769.0	1827.9	1897.6	1903.8
32.5°	9549.9	8690.2	6248.9	3070.2	1727.2	1632.7	1642.0	1655.9	1683.8	1711.7	1717.9
35°	9379.5	8403.6	5650.9	2332.9	1589.3	1556.8	1550.6	1547.5	1550.6	1541.3	1542.9
37.5°	9269.5	8166.6	5028.2	1857.3	1510.3	1490.2	1471.6	1448.4	1422.0	1406.5	1409.6
40°	9229.2	7990.0	4397.7	1604.8	1445.3	1431.3	1395.7	1346.1	1315.1	1305.8	1305.8
42.5°	9337.7	7898.6	3789.0	1477.8	1391.0	1367.8	1308.9	1251.6	1228.4	1226.8	1225.3
45°	9669.2	7935.8	3209.6	1408.1	1341.5	1296.6	1219.1	1171.1	1155.6	1158.7	1157.1
47.5°	10264.0	8169.7	2713.9	1361.6	1291.9	1233.0	1146.3	1107.6	1089.0	1089.0	1090.5
50°	11275.5	8716.5	2318.9	1322.9	1250.1	1174.2	1093.6	1045.6	1020.8	1019.3	1019.3
52.5°	12748.7	9695.5	2072.6	1290.4	1203.6	1121.5	1041.0	980.5	951.1	944.9	941.8
55°	14595.1	11098.9	2004.5	1268.7	1141.6	1064.2	977.4	917.0	884.5	870.6	869.0
57.5°	16660.0	12806.0	2139.2	1242.3	1078.1	996.0	907.7	850.4	816.3	799.3	797.8
60°	18749.7	14669.5	2689.1	1205.2	1025.5	921.7	836.5	783.8	749.7	731.2	728.1
62.5°	20842.4	16633.7	3812.2	1202.1	988.3	850.4	763.7	718.8	686.2	666.1	661.4
65°	23203.2	18783.8	5088.6	1284.2	975.9	785.4	689.3	653.7	625.8	607.2	605.7
67.5°	25914.0	21211.1	4966.2	1453.0	1017.7	726.5	619.6	591.7	571.6	556.1	554.6
70°	27185.8	20831.6	3087.3	1572.3	1076.6	669.2	553.0	532.9	517.4	506.5	501.9
71°	26652.9	19779.8	2588.5	1558.3	1070.4	644.4	526.7	511.2	495.7	486.4	481.8
72.5°	25199.9	18038.7	2159.4	1449.9	1000.7	599.5	492.6	477.1	463.2	452.3	449.2
75°	22613.0	16110.1	1728.7	1158.7	797.8	506.5	432.2	415.1	404.3	398.1	391.9
77.5°	16622.8	11497.0	1336.8	915.5	587.1	413.6	368.7	356.3	345.4	336.1	331.5
80°	6368.1	4453.5	900.0	683.1	430.6	326.8	297.4	291.2	280.4	274.2	274.2
82.5°	1714.8	1330.6	480.2	413.6	288.1	238.6	227.7	224.6	215.3	202.9	204.5
85°	694.0	587.1	269.5	227.7	176.6	141.0	153.4	154.9	144.1	128.6	130.1
87.5°	305.2	249.4	150.3	100.7	77.5	54.2	69.7	69.7	63.5	52.7	48.0
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)