

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: P319354

Luminaire Tested: **GAN-SA0A-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319354
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-SA0A-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA 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: 45188 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

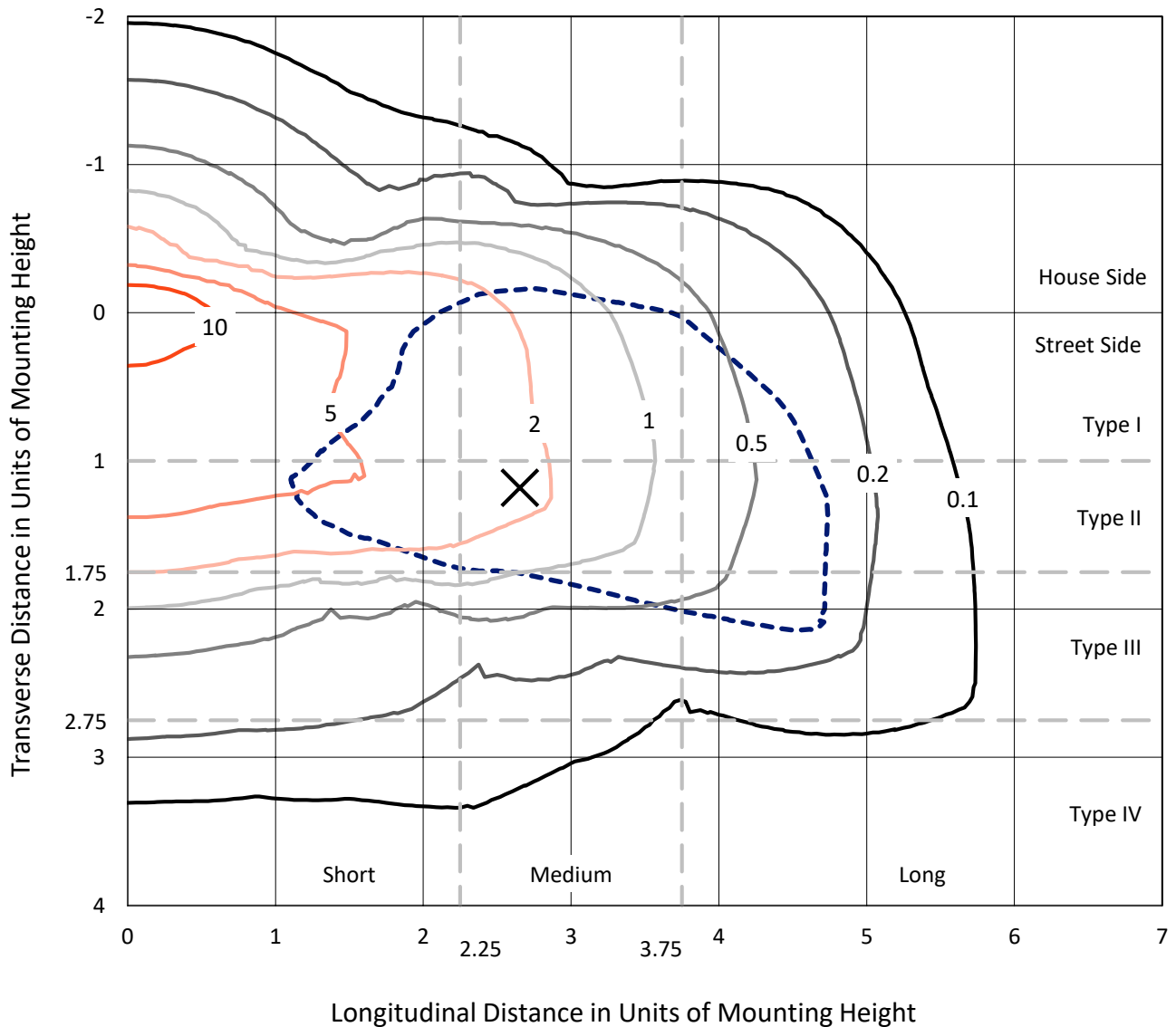
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

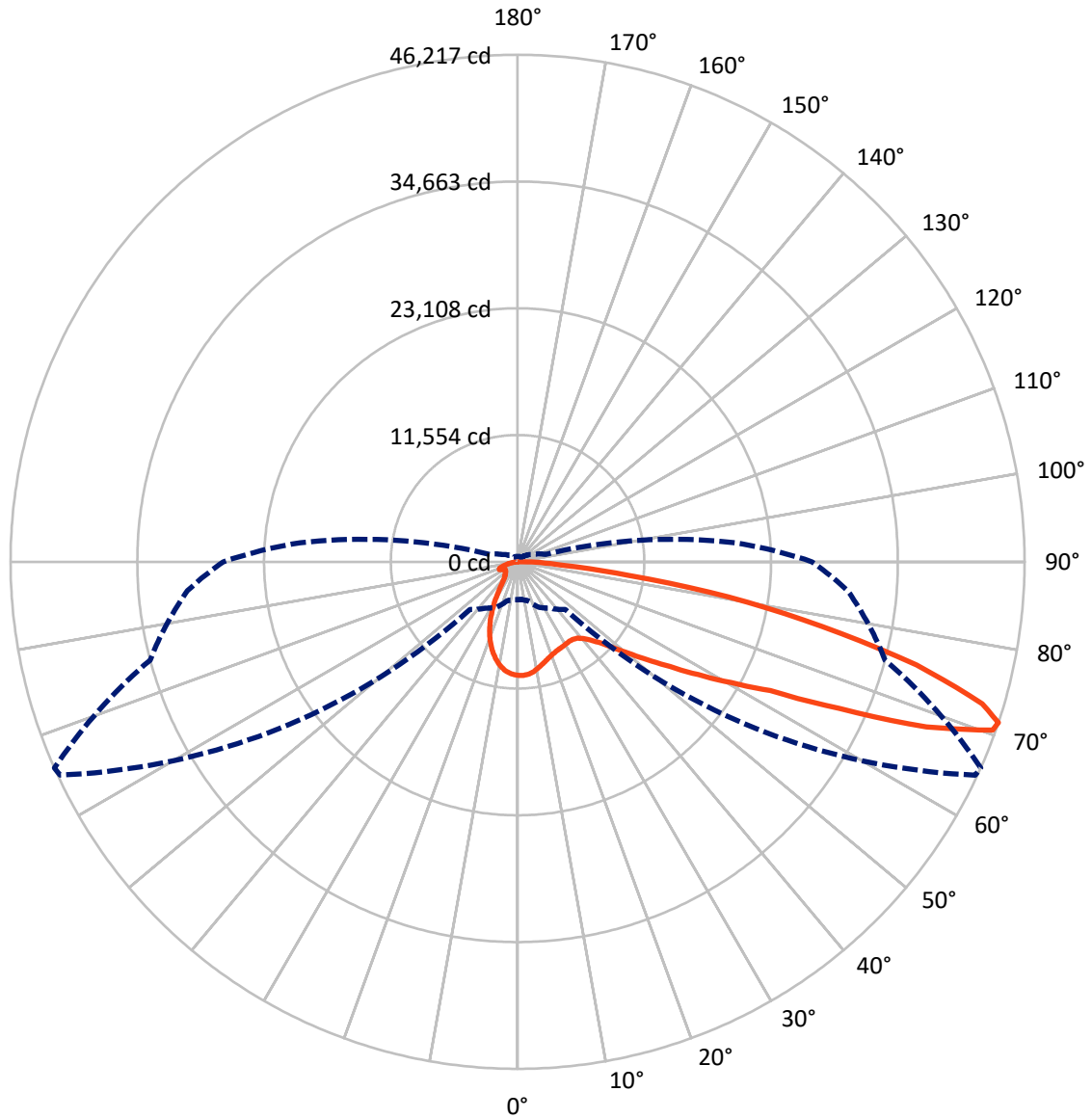
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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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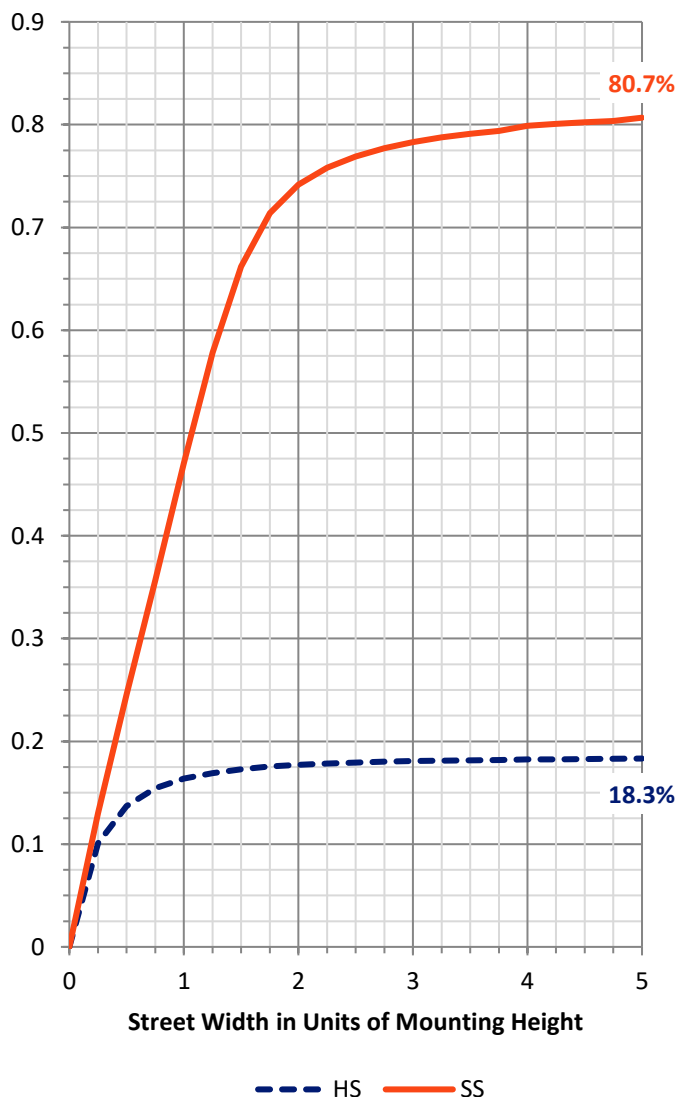
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8374.6	0.0	8374.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	36813.4	0.0	36813.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	45188.0	0.0	45188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.2	2.0
10°-20°	2185.4	4.8
20°-30°	2935.6	6.5
30°-40°	3861.7	8.5
40°-50°	5617.8	12.4
50°-60°	8775.6	19.4
60°-70°	10992.9	24.3
70°-80°	8385.1	18.6
80°-90°	1522.7	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°	45188.0	100.0
0°-180°	45188.0	100.0

Coefficient of Utilization

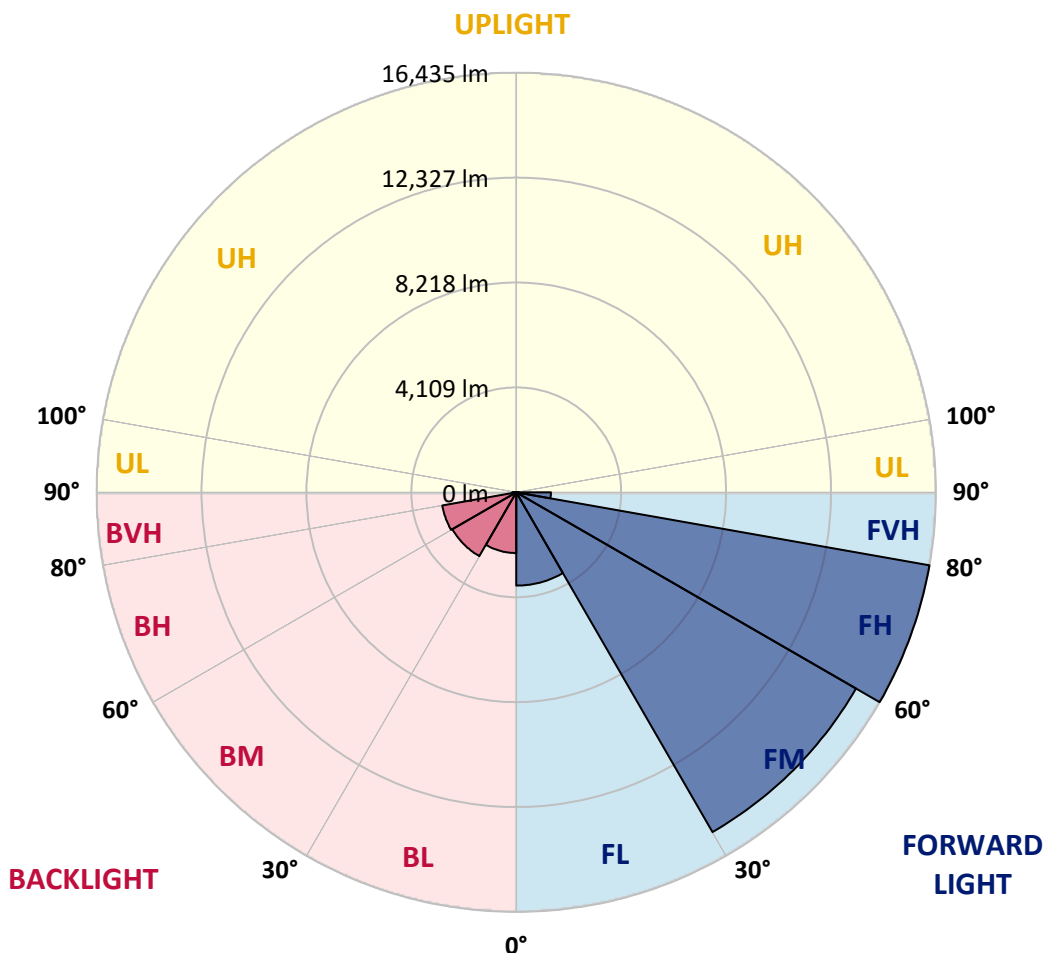


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3654.1	8.1			
FM (30°-60°)	15366.2	34.0			
FH (60°-80°)	16435.3	36.4			G5
FVH (80°-90°)	1357.8	3.0			G5
BL (0°-30°)	2378.2	5.3	B3/2500		
BM (30°-60°)	2889.0	6.4	B3/5000		
BH (60°-80°)	2942.6	6.5	B4/5000		G4/5000
BVH (80°-90°)	164.8	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°	10351.7	10351.7	10351.7	10351.7	10351.7	10351.7	10351.7	10351.7	10351.7	10351.7	10351.7
2.5°	10159.8	10144.2	10191.0	10239.4	10258.1	10289.3	10336.1	10362.6	10361.1	10365.7	10350.1
5°	9485.8	9465.5	9559.1	9635.6	9782.2	9947.6	10148.9	10292.4	10295.5	10376.7	10398.5
7.5°	8847.7	8833.7	8941.3	9064.6	9234.6	9487.4	9813.4	10122.4	10141.1	10361.1	10437.5
10°	8336.0	8332.8	8437.4	8571.5	8769.7	9052.1	9426.5	9879.0	9907.0	10286.2	10443.7
12.5°	7936.6	7942.8	8033.3	8186.2	8395.2	8690.1	9095.8	9605.9	9651.2	10167.6	10407.9
15°	7641.7	7666.7	7740.0	7894.4	8100.4	8399.9	8816.5	9353.2	9421.8	10035.0	10387.6
17.5°	7473.2	7501.3	7552.8	7680.7	7874.2	8162.8	8557.5	9145.7	9208.1	9933.6	10389.1
20°	7423.3	7446.7	7476.3	7554.3	7718.1	7980.2	8353.1	8958.5	9025.6	9852.4	10404.7
22.5°	7521.6	7538.7	7541.8	7535.6	7635.4	7849.2	8204.9	8821.2	8892.9	9799.4	10415.7
25°	7732.2	7755.6	7738.4	7680.7	7647.9	7779.0	8128.5	8730.7	8802.5	9760.4	10393.8
27.5°	8048.9	8052.0	8038.0	7963.1	7808.6	7786.8	8105.1	8677.6	8746.3	9715.1	10348.6
30°	8479.5	8499.8	8474.8	8373.4	8120.7	7911.6	8133.1	8626.2	8688.6	9657.4	10275.2
32.5°	8983.4	9033.4	9031.8	8925.7	8563.7	8190.9	8248.6	8594.9	8643.3	9596.6	10186.3
35°	9506.1	9574.7	9702.7	9657.4	9209.7	8632.4	8470.1	8644.9	8677.6	9588.8	10123.9
37.5°	10049.0	10117.7	10381.3	10503.0	9978.8	9264.3	8819.6	8821.2	8836.8	9683.9	10119.2
40°	10616.9	10690.3	11086.5	11403.2	10975.8	10064.6	9382.8	9189.4	9172.2	9918.0	10211.3
42.5°	11412.6	11478.1	11954.0	12358.1	12081.9	11089.7	10161.4	9757.3	9721.4	10376.7	10506.2
45°	12418.9	12475.1	12980.6	13412.7	13270.8	12259.8	11139.6	10538.9	10532.7	11141.1	11103.7
47.5°	13615.6	13659.2	14113.3	14531.4	14582.9	13606.2	12369.0	11744.9	11643.5	12189.6	12028.9
50°	14862.1	14910.5	15219.4	15668.7	16051.0	15408.2	13951.0	13222.4	13086.7	13573.4	13339.4
52.5°	15687.5	15751.4	16019.8	16589.2	17701.6	17383.4	15821.6	15013.5	14807.5	15250.6	15071.2
55°	15319.3	15462.8	15873.1	16785.8	19021.5	20400.7	18129.1	17102.5	16870.1	17238.3	17132.2
57.5°	13645.2	13841.8	14401.9	15810.7	19207.2	23059.2	21617.6	19562.9	19399.1	19293.0	19341.4
60°	10585.7	10774.5	11468.8	13305.1	17913.8	25000.1	26867.6	22595.9	22358.7	21355.5	21399.2
62.5°	7491.9	7396.7	7872.6	9215.9	14556.3	25227.9	32841.5	26652.3	25872.2	23533.5	23341.6
65°	5713.3	5691.5	5905.2	6332.7	8816.5	22502.3	36400.2	33470.2	32251.7	26095.3	25642.9
67.5°	4694.5	4655.5	4866.2	5488.7	5677.4	14517.3	36478.2	41380.3	40183.6	29284.3	28304.5
70°	3859.8	3816.2	4012.7	4816.2	5246.8	7362.4	30700.9	46012.4	45948.4	33322.0	30314.0
71°	3460.4	3429.2	3664.8	4557.2	5154.8	6136.1	26507.2	46024.9	46216.8	34688.7	30195.4
72.5°	2817.7	2828.6	3078.2	4056.4	5086.1	5418.5	19481.8	43879.6	44285.3	35991.5	29117.4
75°	1872.2	1881.6	2209.2	3120.3	4931.7	5301.4	10707.4	36819.9	37565.7	35211.4	26569.6
77.5°	1257.5	1254.4	1477.5	2140.5	4296.7	5301.4	6278.1	27538.5	28357.6	28017.4	20483.4
80°	865.9	859.7	1017.2	1477.5	3252.9	5365.4	4853.7	19299.2	19547.3	15130.5	8325.0
82.5°	530.5	535.1	664.6	1043.8	2213.9	4828.7	4582.2	10523.3	10253.4	4243.6	2079.7
85°	304.2	302.7	424.4	706.8	1421.3	4075.2	4468.3	4529.2	4154.7	1277.8	752.0
87.5°	109.2	117.0	227.8	391.6	814.4	2837.9	3791.2	2355.8	2123.4	577.3	340.1
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°	10351.7	10351.7	10351.7	10351.7	10351.7	10351.7	10351.7	10351.7	10351.7	10351.7	10351.7
2.5°	10339.2	10348.6	10337.7	10275.2	10222.2	10136.4	10088.0	10020.9	10000.7	9991.3	10016.3
5°	10378.2	10381.3	10289.3	10125.5	9941.4	9724.5	9568.5	9376.6	9286.1	9247.1	9272.1
7.5°	10414.1	10400.1	10198.8	9885.2	9545.1	9167.5	8832.1	8524.7	8345.3	8272.0	8278.2
10°	10418.8	10359.5	10036.5	9551.3	9024.0	8470.1	7955.3	7481.0	7181.4	6986.4	7045.7
12.5°	10370.4	10270.6	9797.8	9119.2	8387.4	7632.3	6936.5	6225.1	5797.6	5599.4	5605.7
15°	10333.0	10152.0	9504.5	8610.6	7627.6	6627.6	5677.4	4841.2	4385.6	4182.8	4087.6
17.5°	10301.8	10024.1	9164.4	8038.0	6730.6	5462.1	4320.1	3574.3	3324.7	3265.4	3240.5
20°	10258.1	9888.3	8785.3	7374.9	5708.6	4157.8	3154.7	2786.5	2788.0	2856.7	2866.0
22.5°	10197.2	9733.9	8381.2	6630.7	4611.8	3028.3	2472.9	2366.8	2474.4	2605.5	2628.9
25°	10106.8	9551.3	7931.9	5808.5	3516.6	2327.8	2112.5	2107.8	2238.8	2376.1	2396.4
27.5°	9978.8	9312.6	7432.6	4925.4	2591.4	1978.3	1892.5	1925.2	2022.0	2121.8	2129.6
30°	9807.2	9034.9	6881.9	3994.0	2031.3	1761.4	1752.1	1781.7	1841.0	1911.2	1917.4
32.5°	9618.4	8752.5	6293.7	3092.2	1739.6	1644.4	1653.8	1667.8	1695.9	1724.0	1730.2
35°	9446.8	8463.9	5691.5	2349.6	1600.7	1568.0	1561.7	1558.6	1561.7	1552.4	1553.9
37.5°	9336.0	8225.2	5064.3	1870.6	1521.2	1500.9	1482.2	1458.8	1432.2	1416.6	1419.8
40°	9295.5	8047.3	4429.3	1616.3	1455.6	1441.6	1405.7	1355.8	1324.6	1315.2	1315.2
42.5°	9404.7	7955.3	3816.2	1488.4	1401.0	1377.6	1318.3	1260.6	1237.2	1235.7	1234.1
45°	9738.6	7992.7	3232.7	1418.2	1351.1	1305.9	1227.8	1179.5	1163.9	1167.0	1165.4
47.5°	10337.7	8228.3	2733.4	1371.4	1301.2	1241.9	1154.5	1115.5	1096.8	1096.8	1098.4
50°	11356.4	8779.0	2335.6	1332.4	1259.1	1182.6	1101.5	1053.1	1028.1	1026.6	1026.6
52.5°	12840.2	9765.1	2087.5	1299.6	1212.2	1129.6	1048.4	987.6	957.9	951.7	948.6
55°	14699.9	11178.6	2018.9	1277.8	1149.8	1071.8	984.5	923.6	890.9	876.8	875.3
57.5°	16779.6	12897.9	2154.6	1251.3	1085.9	1003.2	914.3	856.5	822.2	805.0	803.5
60°	18884.2	14774.8	2708.4	1213.8	1032.8	928.3	842.5	789.4	755.1	736.4	733.3
62.5°	20992.0	16753.1	3839.6	1210.7	995.4	856.5	769.2	723.9	691.2	670.9	666.2
65°	23369.7	18918.6	5125.1	1293.4	982.9	791.0	694.3	658.4	630.3	611.6	610.0
67.5°	26100.0	21363.3	5001.9	1463.4	1025.0	731.7	624.1	596.0	575.7	560.1	558.5
70°	27380.9	20981.1	3109.4	1583.6	1084.3	674.0	557.0	536.7	521.1	510.2	505.5
71°	26844.2	19921.7	2607.0	1569.5	1078.1	649.0	530.5	514.9	499.3	489.9	485.2
72.5°	25380.8	18168.1	2174.9	1460.3	1007.9	603.8	496.1	480.5	466.5	455.6	452.4
75°	22775.3	16225.7	1741.1	1167.0	803.5	510.2	435.3	418.1	407.2	401.0	394.7
77.5°	16742.1	11579.5	1346.4	922.1	591.3	416.6	371.3	358.8	347.9	338.6	333.9
80°	6413.8	4485.5	906.5	688.0	433.7	329.2	299.6	293.3	282.4	276.1	276.1
82.5°	1727.1	1340.2	483.7	416.6	290.2	240.3	229.3	226.2	216.9	204.4	205.9
85°	699.0	591.3	271.5	229.3	177.9	142.0	154.5	156.0	145.1	129.5	131.1
87.5°	307.4	251.2	151.3	101.4	78.0	54.6	70.2	70.2	64.0	53.0	48.4
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)