

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: P319332

Luminaire Tested: **GAN-SA8C-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319332
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-SA8C-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 50573 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

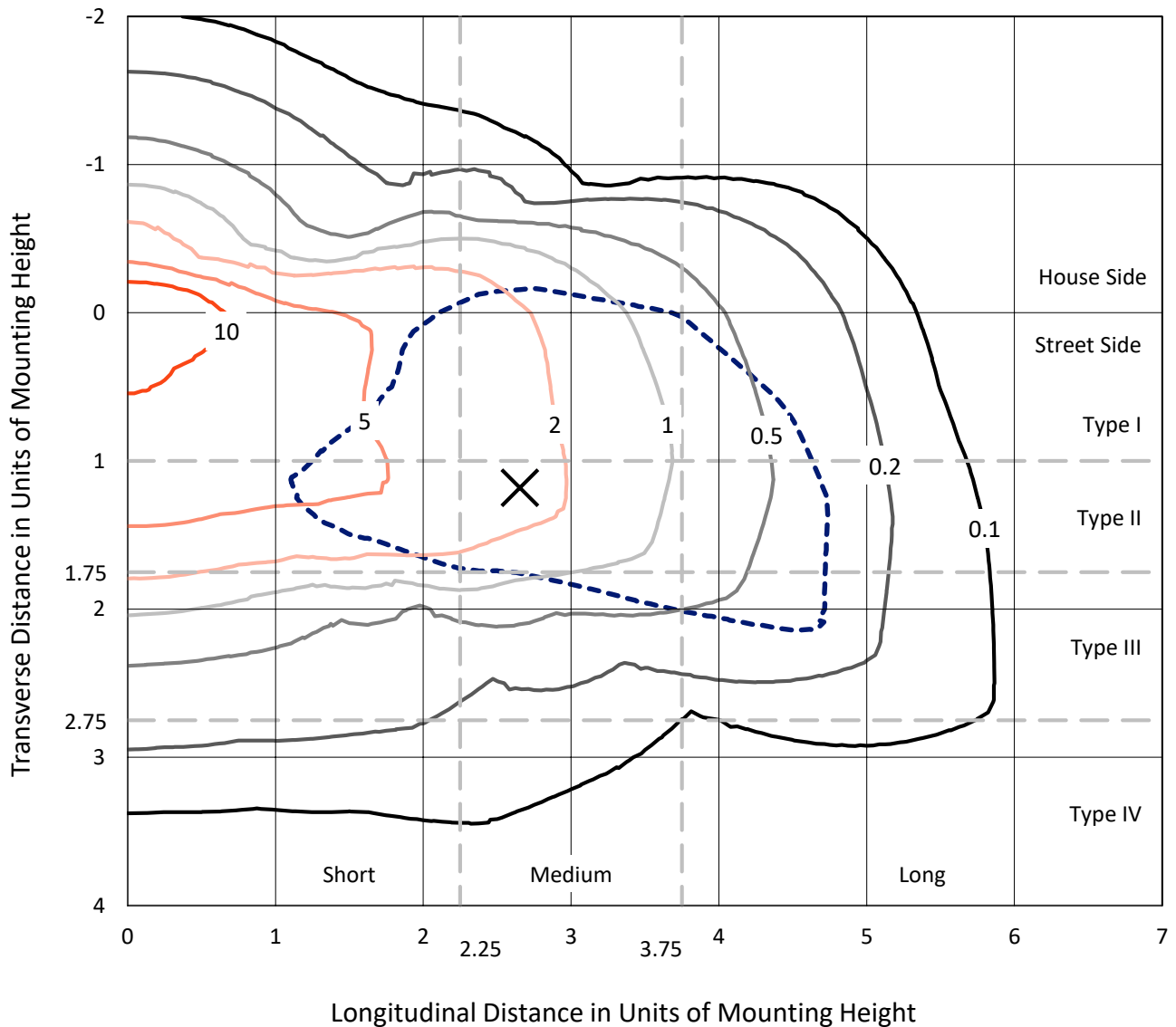
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

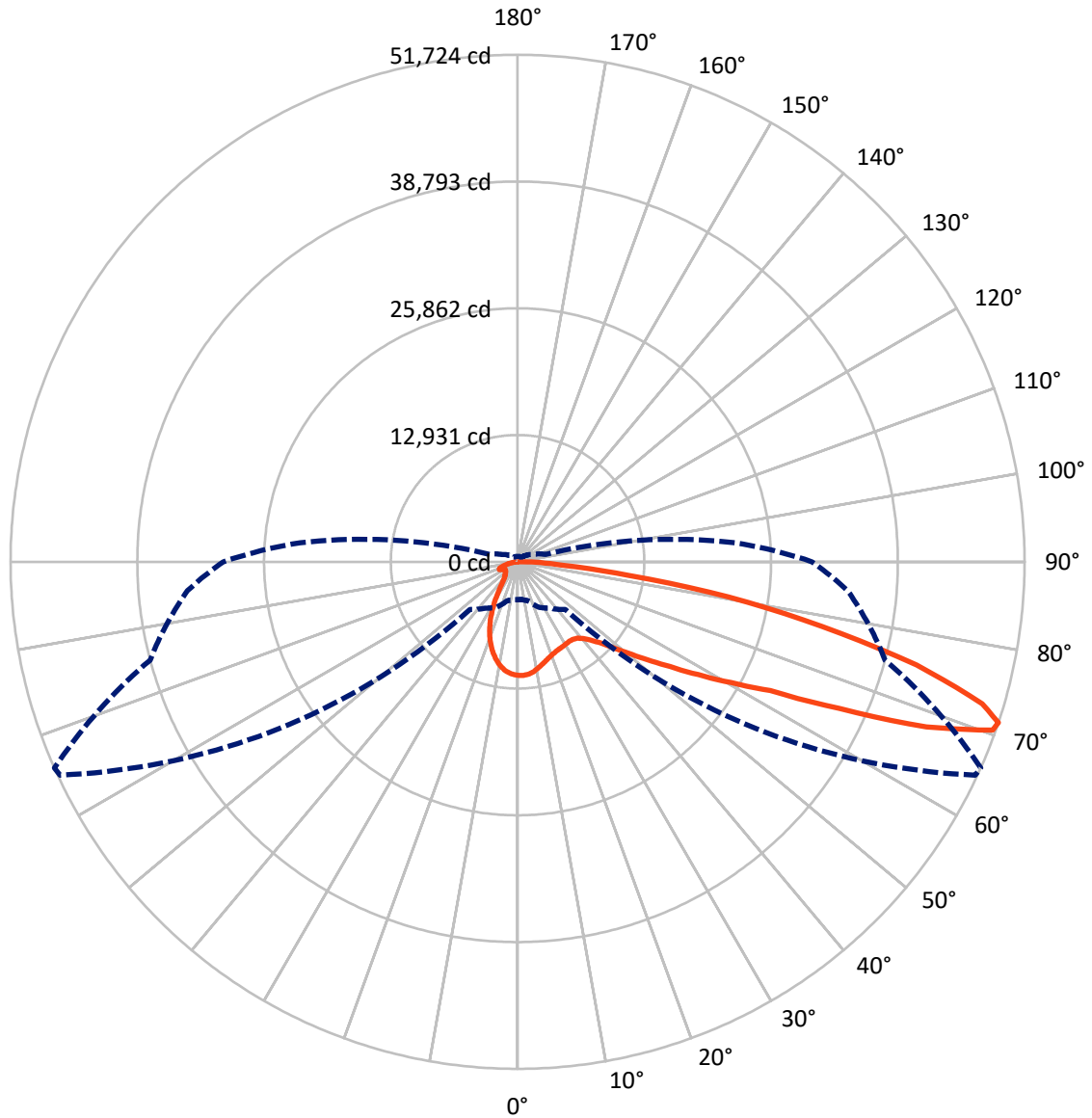
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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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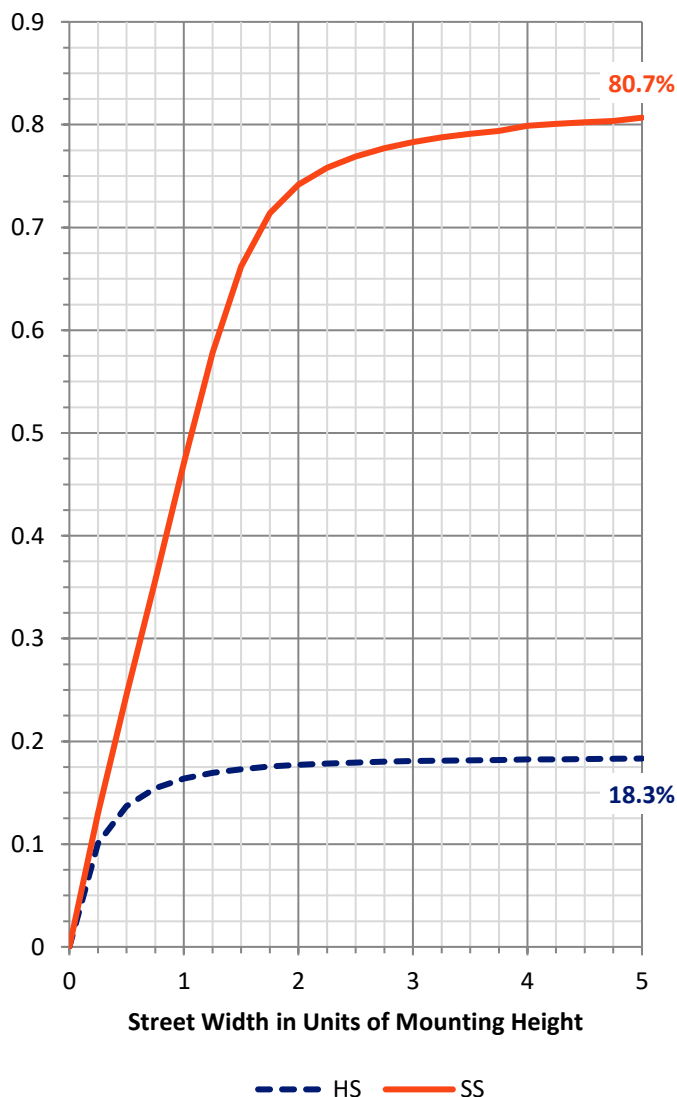
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9372.6	0.0	9372.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	41200.4	0.0	41200.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	50573.0	0.0	50573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1019.8	2.0
10°-20°	2445.9	4.8
20°-30°	3285.4	6.5
30°-40°	4321.9	8.5
40°-50°	6287.3	12.4
50°-60°	9821.4	19.4
60°-70°	12302.9	24.3
70°-80°	9384.4	18.6
80°-90°	1704.1	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°	50573.0	100.0
0°-180°	50573.0	100.0

Coefficient of Utilization

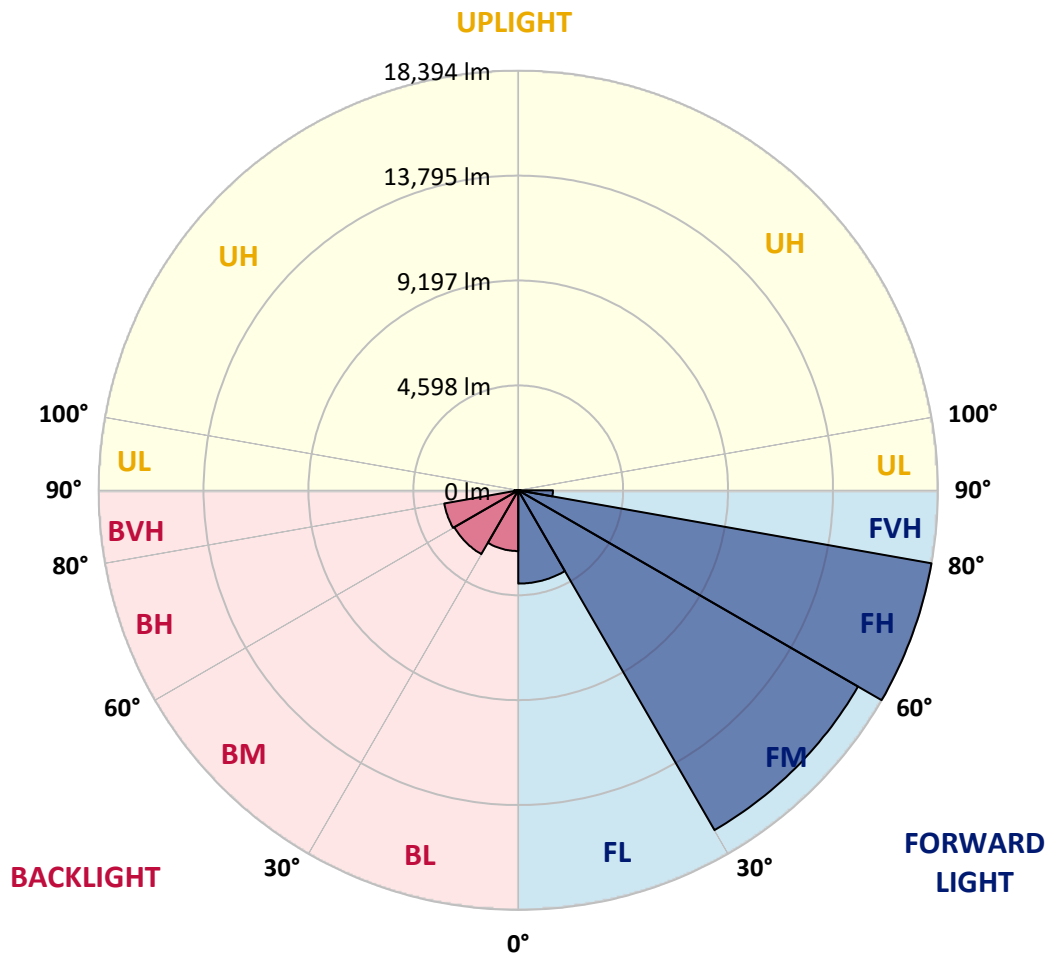


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4089.5	8.1			
FM (30°-60°)	17197.4	34.0			
FH (60°-80°)	18393.9	36.4			G5
FVH (80°-90°)	1519.6	3.0			G5
BL (0°-30°)	2661.6	5.3	B4/5000		
BM (30°-60°)	3233.2	6.4	B3/5000		
BH (60°-80°)	3293.3	6.5	B4/5000		G4/5000
BVH (80°-90°)	184.5	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°	11585.3	11585.3	11585.3	11585.3	11585.3	11585.3	11585.3	11585.3	11585.3	11585.3	11585.3
2.5°	11370.5	11353.1	11405.4	11459.6	11480.5	11515.5	11567.8	11597.5	11595.8	11601.0	11583.5
5°	10616.2	10593.5	10698.3	10783.8	10948.0	11133.1	11358.3	11518.9	11522.4	11613.2	11637.7
7.5°	9902.1	9886.4	10006.8	10144.8	10335.1	10618.0	10982.9	11328.6	11349.6	11595.8	11681.3
10°	9329.3	9325.9	9442.8	9593.0	9814.8	10130.8	10549.9	11056.2	11087.7	11512.0	11688.3
12.5°	8882.4	8889.3	8990.6	9161.7	9395.7	9725.7	10179.7	10750.7	10801.3	11379.3	11648.2
15°	8552.3	8580.3	8662.3	8835.2	9065.7	9400.9	9867.1	10467.8	10544.6	11230.8	11625.5
17.5°	8363.8	8395.2	8452.8	8596.0	8812.5	9135.5	9577.3	10235.6	10305.4	11117.3	11627.2
20°	8307.9	8334.1	8367.3	8454.6	8637.9	8931.2	9348.6	10026.0	10101.1	11026.5	11644.7
22.5°	8417.9	8437.1	8440.6	8433.6	8545.4	8784.6	9182.7	9872.4	9952.7	10967.2	11656.9
25°	8653.6	8679.8	8660.6	8596.0	8559.3	8706.0	9097.1	9771.1	9851.4	10923.5	11632.4
27.5°	9008.1	9011.6	8995.8	8912.0	8739.2	8714.7	9070.9	9711.7	9788.6	10872.9	11581.8
30°	9490.0	9512.7	9484.8	9371.3	9088.4	8854.4	9102.4	9654.1	9724.0	10808.3	11499.7
32.5°	10054.0	10109.9	10108.1	9989.4	9584.3	9167.0	9231.6	9619.2	9673.3	10740.2	11400.2
35°	10638.9	10715.7	10858.9	10808.3	10307.2	9661.1	9479.5	9675.1	9711.7	10731.5	11330.4
37.5°	11246.6	11323.4	11618.5	11754.7	11168.0	10368.3	9870.6	9872.4	9889.8	10838.0	11325.1
40°	11882.1	11964.2	12407.7	12762.2	12283.7	11264.0	10501.0	10284.5	10265.3	11099.9	11428.1
42.5°	12772.6	12846.0	13378.5	13830.8	13521.7	12411.2	11372.3	10920.0	10879.9	11613.2	11758.2
45°	13898.9	13961.7	14527.5	15011.1	14852.2	13720.8	12467.1	11794.8	11787.8	12468.8	12426.9
47.5°	15238.1	15287.0	15795.1	16263.1	16320.7	15227.6	13843.0	13144.6	13031.1	13642.2	13462.3
50°	16633.2	16687.4	17033.1	17536.0	17963.8	17244.4	15613.5	14798.1	14646.2	15191.0	14929.1
52.5°	17556.9	17628.5	17928.8	18566.2	19811.1	19454.9	17707.1	16802.6	16572.1	17068.0	16867.2
55°	17144.8	17305.5	17764.7	18786.2	21288.3	22831.8	20289.5	19140.6	18880.5	19292.5	19173.8
57.5°	15271.3	15491.3	16118.1	17694.9	21496.1	25807.2	24193.8	21894.2	21710.9	21592.1	21646.3
60°	11847.2	12058.5	12835.5	14890.6	20048.6	27979.3	30069.4	25288.6	25023.2	23900.5	23949.3
62.5°	8384.7	8278.2	8810.8	10314.1	16291.0	28234.2	36755.2	29828.4	28955.4	26338.0	26123.2
65°	6394.2	6369.7	6608.9	7087.4	9867.1	25183.8	40738.0	37458.8	36095.1	29205.1	28698.7
67.5°	5254.0	5210.3	5446.0	6142.7	6354.0	16247.4	40825.3	46311.5	44972.2	32774.1	31677.5
70°	4319.8	4270.9	4490.9	5390.2	5872.1	8239.8	34359.5	51495.6	51424.0	37293.0	33926.5
71°	3872.8	3837.9	4101.6	5100.3	5769.1	6867.4	29666.0	51509.6	51724.4	38822.5	33793.8
72.5°	3153.4	3165.7	3445.0	4539.8	5692.2	6064.2	21803.4	49108.7	49562.7	40280.5	32587.2
75°	2095.3	2105.8	2472.5	3492.2	5519.4	5933.2	11983.4	41207.7	42042.3	39407.5	29735.9
77.5°	1407.3	1403.9	1653.5	2395.6	4808.7	5933.2	7026.3	30820.2	31736.9	31356.3	22924.4
80°	969.1	962.1	1138.4	1653.5	3640.6	6004.8	5432.1	21599.1	21876.7	16933.6	9317.1
82.5°	593.7	598.9	743.8	1168.1	2477.7	5404.1	5128.3	11777.4	11475.3	4749.4	2327.5
85°	340.5	338.7	474.9	791.0	1590.7	4560.8	5000.8	5068.9	4649.8	1430.0	841.6
87.5°	122.2	131.0	254.9	438.3	911.5	3176.1	4243.0	2636.6	2376.4	646.1	380.6
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°	11585.3	11585.3	11585.3	11585.3	11585.3	11585.3	11585.3	11585.3	11585.3	11585.3	11585.3
2.5°	11571.3	11581.8	11569.6	11499.7	11440.4	11344.3	11290.2	11215.1	11192.4	11181.9	11209.9
5°	11615.0	11618.5	11515.5	11332.1	11126.1	10883.4	10708.8	10494.0	10392.7	10349.1	10377.0
7.5°	11655.1	11639.4	11414.2	11063.2	10682.6	10260.0	9884.6	9540.6	9339.8	9257.8	9264.7
10°	11660.4	11594.0	11232.6	10689.6	10099.4	9479.5	8903.3	8372.5	8037.2	7819.0	7885.3
12.5°	11606.2	11494.5	10965.4	10205.9	9387.0	8541.9	7763.1	6966.9	6488.5	6266.7	6273.7
15°	11564.3	11361.8	10637.2	9636.7	8536.6	7417.4	6354.0	5418.1	4908.3	4681.3	4574.8
17.5°	11529.4	11218.6	10256.5	8995.8	7532.6	6113.1	4834.9	4000.3	3720.9	3654.6	3626.6
20°	11480.5	11066.7	9832.2	8253.8	6388.9	4653.3	3530.6	3118.5	3120.3	3197.1	3207.6
22.5°	11412.4	10893.8	9380.0	7420.9	5161.4	3389.2	2767.5	2648.8	2769.3	2916.0	2942.2
25°	11311.2	10689.6	8877.1	6500.7	3935.7	2605.2	2364.2	2359.0	2505.6	2659.3	2682.0
27.5°	11168.0	10422.4	8318.4	5512.4	2900.3	2214.0	2118.0	2154.7	2262.9	2374.7	2383.4
30°	10975.9	10111.6	7702.0	4470.0	2273.4	1971.3	1960.9	1994.0	2060.4	2139.0	2145.9
32.5°	10764.6	9795.6	7043.7	3460.7	1946.9	1840.4	1850.9	1866.6	1898.0	1929.4	1936.4
35°	10572.6	9472.5	6369.7	2629.6	1791.5	1754.8	1747.8	1744.3	1747.8	1737.4	1739.1
37.5°	10448.6	9205.4	5667.8	2093.6	1702.4	1679.7	1658.8	1632.6	1602.9	1585.4	1588.9
40°	10403.2	9006.3	4957.1	1808.9	1629.1	1613.4	1573.2	1517.4	1482.4	1472.0	1472.0
42.5°	10525.4	8903.3	4270.9	1665.8	1568.0	1541.8	1475.4	1410.8	1384.6	1382.9	1381.2
45°	10899.1	8945.2	3617.9	1587.2	1512.1	1461.5	1374.2	1320.0	1302.6	1306.1	1304.3
47.5°	11569.6	9208.9	3059.1	1534.8	1456.2	1389.9	1292.1	1248.5	1227.5	1227.5	1229.2
50°	12709.8	9825.2	2613.9	1491.2	1409.1	1323.5	1232.7	1178.6	1150.7	1148.9	1148.9
52.5°	14370.3	10928.8	2336.3	1454.5	1356.7	1264.2	1173.4	1105.3	1072.1	1065.1	1061.6
55°	16451.6	12510.7	2259.4	1430.0	1286.9	1199.6	1101.8	1033.7	997.0	981.3	979.6
57.5°	18779.2	14434.9	2411.3	1400.4	1215.3	1122.7	1023.2	958.6	920.2	901.0	899.2
60°	21134.7	16535.5	3031.2	1358.5	1155.9	1038.9	942.9	883.5	845.1	824.2	820.7
62.5°	23493.6	18749.5	4297.1	1355.0	1114.0	958.6	860.8	810.2	773.5	750.8	745.6
65°	26154.7	21173.1	5735.9	1447.5	1100.0	885.3	777.0	736.8	705.4	684.5	682.7
67.5°	29210.3	23909.2	5598.0	1637.8	1147.2	818.9	698.4	667.0	644.3	626.8	625.1
70°	30643.8	23481.4	3480.0	1772.3	1213.5	754.3	623.4	600.7	583.2	571.0	565.7
71°	30043.2	22295.8	2917.7	1756.6	1206.5	726.4	593.7	576.2	558.7	548.3	543.0
72.5°	28405.4	20333.2	2434.0	1634.3	1128.0	675.7	555.3	537.8	522.1	509.9	506.4
75°	25489.4	18159.3	1948.6	1306.1	899.2	571.0	487.2	468.0	455.7	448.7	441.8
77.5°	18737.3	12959.5	1506.9	1031.9	661.8	466.2	415.6	401.6	389.4	378.9	373.7
80°	7178.2	5020.0	1014.5	770.0	485.4	368.4	335.2	328.3	316.0	309.1	309.1
82.5°	1932.9	1499.9	541.3	466.2	324.8	268.9	256.7	253.2	242.7	228.7	230.5
85°	782.2	661.8	303.8	256.7	199.1	158.9	172.9	174.6	162.4	144.9	146.7
87.5°	344.0	281.1	169.4	113.5	87.3	61.1	78.6	78.6	71.6	59.4	54.1
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)