

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: P321624

Luminaire Tested: **GAN-SA0D-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59066 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

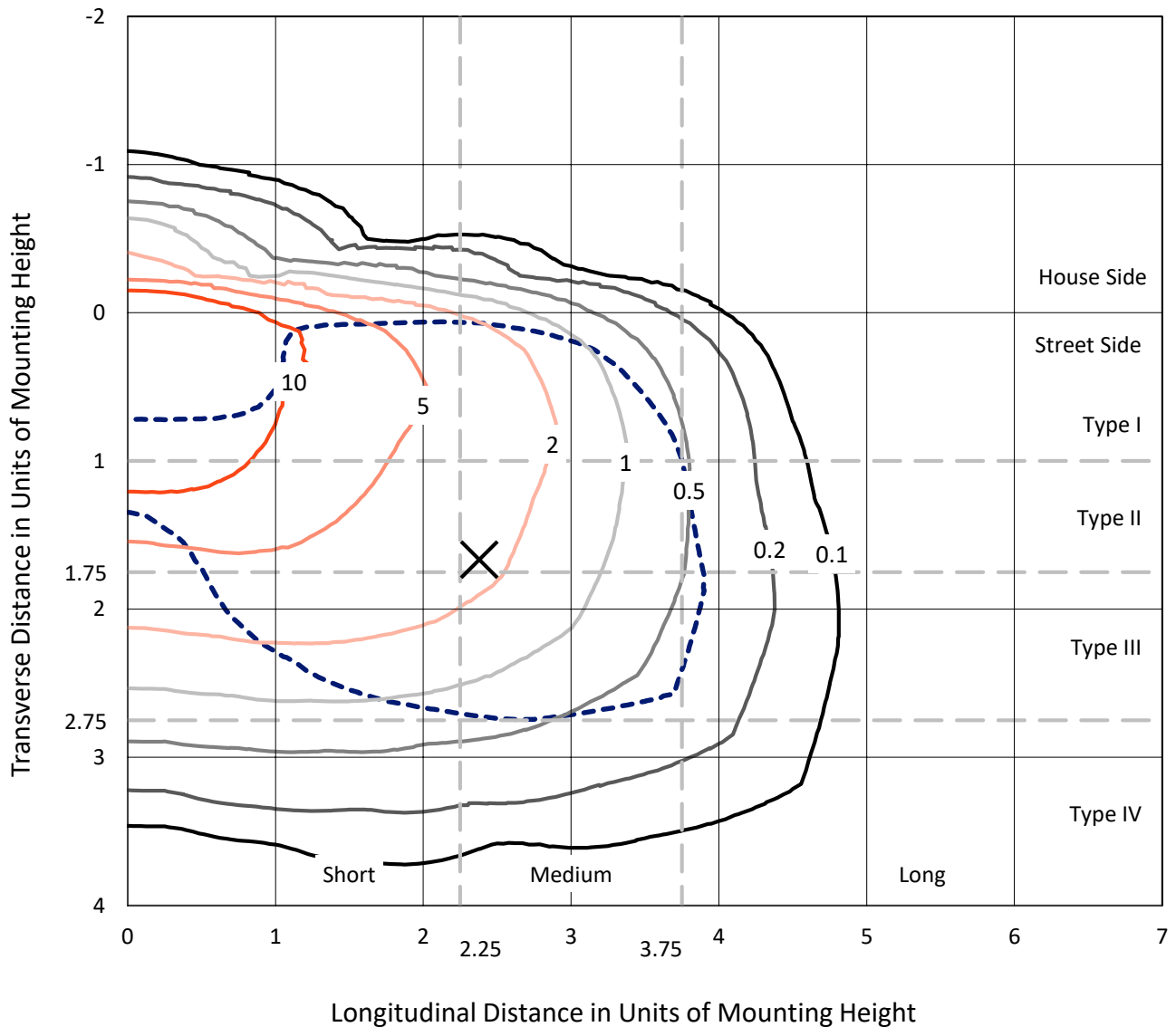
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

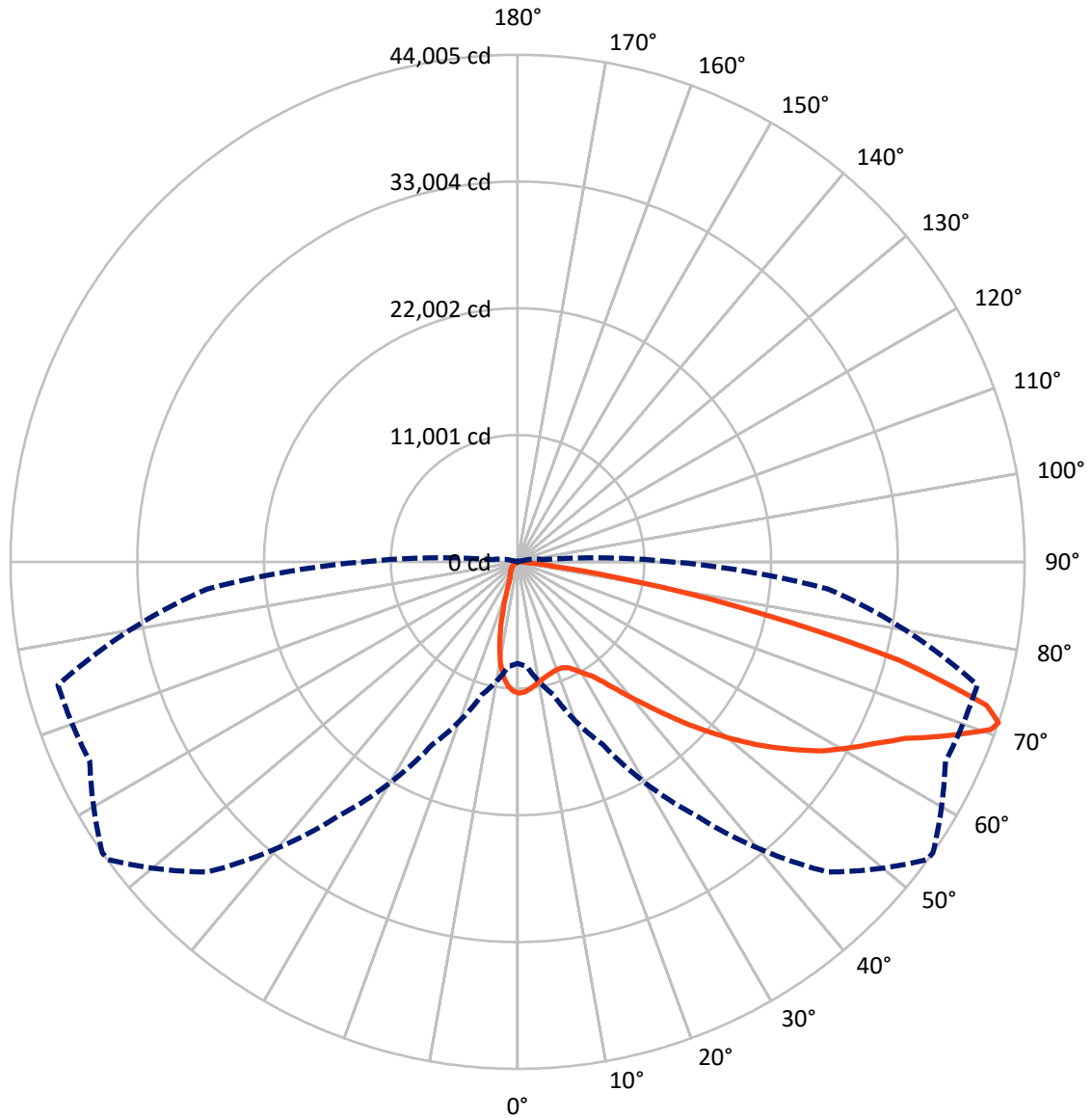
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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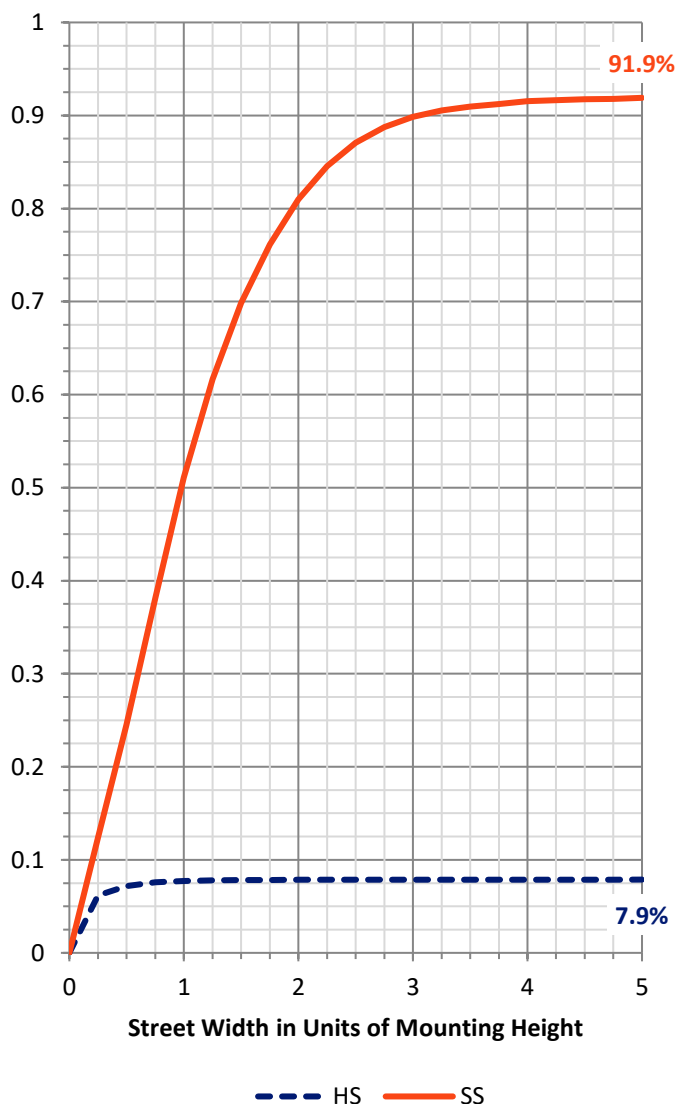
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4676.4	0.0	4676.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	54389.6	0.0	54389.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	59066.0	0.0	59066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	971.2	1.6
10°-20°	2192.7	3.7
20°-30°	3523.7	6.0
30°-40°	5986.9	10.1
40°-50°	9292.4	15.7
50°-60°	12493.4	21.2
60°-70°	15283.5	25.9
70°-80°	8935.9	15.1
80°-90°	386.3	0.7
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°	59066.0	100.0
0°-180°	59066.0	100.0

Coefficient of Utilization

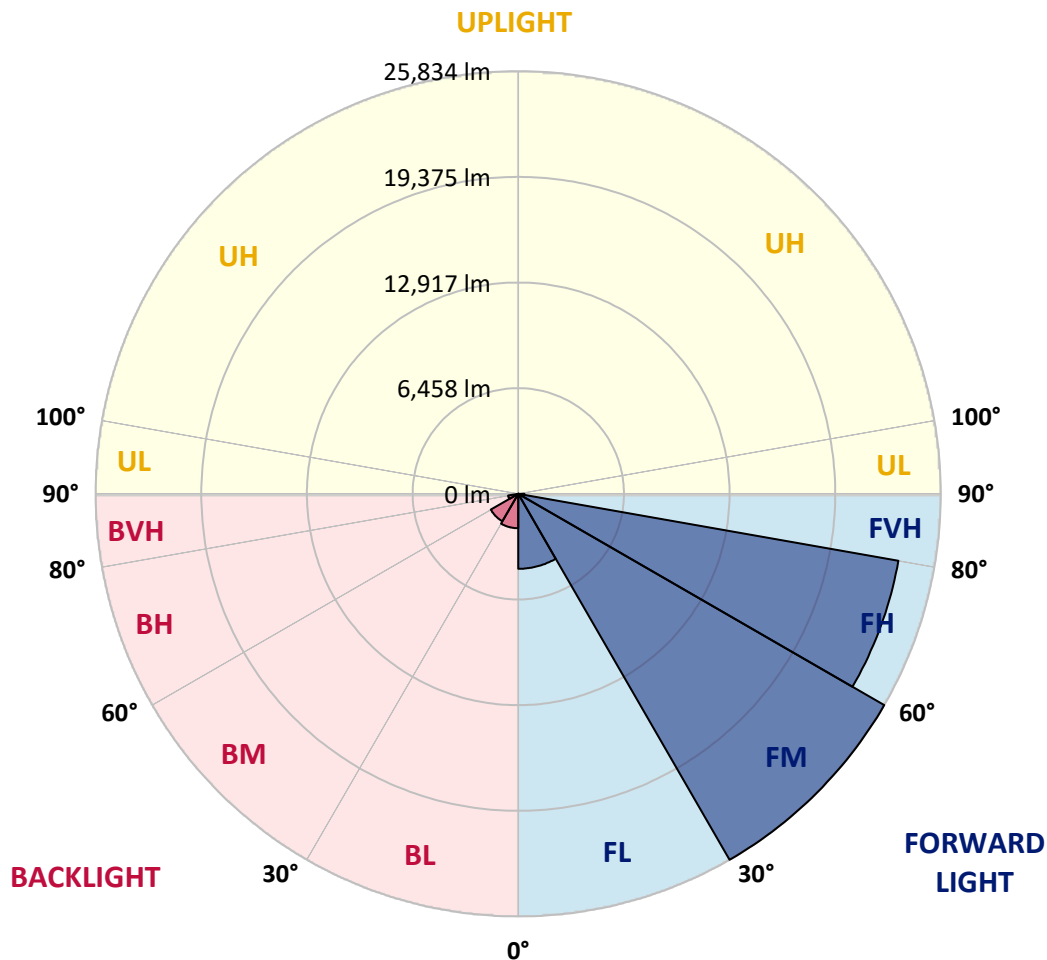


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4582.7	7.8			
FM (30°-60°)	25833.8	43.7			
FH (60°-80°)	23593.0	39.9			G5
FVH (80°-90°)	380.2	0.6			G3/500
BL (0°-30°)	2104.9	3.6	B3/2500		
BM (30°-60°)	1938.9	3.3	B2/2500		
BH (60°-80°)	626.5	1.1	B2/1000		G2/1000
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11391.1	11391.1	11391.1	11391.1	11391.1	11391.1	11391.1	11391.1	11391.1	11391.1	11391.1
2.5°	11056.9	11070.2	11117.9	11139.1	11189.5	11274.4	11316.8	11319.5	11388.4	11415.0	11436.2
5°	10274.5	10354.1	10433.7	10518.5	10672.4	10876.6	11078.1	11096.7	11319.5	11483.9	11571.4
7.5°	9600.9	9672.5	9768.0	9903.2	10120.7	10441.6	10778.4	10818.2	11239.9	11613.9	11810.1
10°	8908.7	8967.0	9104.9	9303.8	9603.5	10033.2	10486.7	10553.0	11168.3	11788.9	12133.7
12.5°	8168.7	8203.2	8370.3	8656.7	9097.0	9643.3	10240.0	10327.6	11123.2	11990.5	12515.6
15°	7606.4	7622.3	7781.5	8078.5	8582.4	9293.2	10049.1	10155.2	11133.8	12231.8	12932.0
17.5°	7463.2	7471.2	7556.0	7760.3	8205.8	8980.3	9897.9	10027.9	11165.7	12467.9	13351.0
20°	8044.0	7988.3	7900.8	7869.0	8060.0	8792.0	9807.7	9953.6	11208.1	12677.4	13727.7
22.5°	9638.0	9473.6	9110.2	8624.9	8330.5	8805.2	9831.6	9977.5	11343.4	12934.7	14162.6
25°	12003.7	11775.7	11157.7	10202.9	9285.3	9187.1	10030.5	10179.0	11605.9	13242.3	14579.0
27.5°	14695.7	14470.3	13714.4	12351.2	10786.4	9943.0	10486.7	10624.6	11995.8	13515.5	14897.3
30°	17273.6	17210.0	16318.8	14770.0	12674.7	11168.3	11075.5	11192.2	12284.9	13679.9	15149.2
32.5°	19459.0	19358.2	18642.1	17135.7	14836.3	12640.3	11767.7	11802.2	12502.4	13892.1	15478.1
35°	21485.3	21360.6	20732.0	19307.8	17053.5	14438.4	12833.9	12783.5	12977.1	14319.1	15955.5
37.5°	23254.3	23368.3	22670.8	21315.5	19042.6	16308.2	14271.4	14120.2	13719.7	15014.0	16647.7
40°	24734.2	24734.2	24370.8	23241.0	21190.9	18241.7	15897.1	15698.2	14836.3	16085.4	17525.6
42.5°	25267.3	25381.3	25516.6	24877.4	23113.7	20252.0	17708.6	17501.7	16409.0	17605.1	18634.2
45°	25299.1	25479.4	26171.7	26169.0	24850.9	22249.1	19750.7	19652.6	18424.7	19557.1	20008.0
47.5°	24850.9	25076.3	26216.7	26863.9	26227.4	24108.3	21983.9	21861.9	20793.0	21949.4	21445.5
50°	24158.7	24408.0	25734.1	27137.1	27163.6	25726.1	24336.4	24153.4	23400.1	24683.8	22930.7
52.5°	22920.1	23402.8	25301.7	27200.7	27778.9	27123.8	26574.8	26495.2	26317.5	27317.4	24113.6
55°	20270.6	20806.3	24217.0	27221.9	28349.1	28362.4	28672.7	28693.9	29051.9	29778.6	24994.1
57.5°	19018.7	19321.1	22323.4	27322.7	29195.1	29768.0	30810.3	30974.7	31529.1	32115.2	25999.3
60°	18231.0	18589.1	21389.8	27184.8	30523.9	31611.3	32791.5	32847.2	33441.3	34526.0	27359.8
62.5°	17602.5	17955.2	20801.0	26654.4	32017.1	33828.5	34727.6	34732.9	35178.4	37398.3	28906.1
65°	16051.0	16348.0	19610.2	26057.6	33003.7	36021.8	36976.6	36942.1	37305.5	40427.1	30701.6
67.5°	13807.2	14035.3	17178.1	23795.3	32632.4	38016.3	40371.4	40257.4	39817.1	43044.8	31407.1
70°	10675.0	10757.2	13539.4	19830.3	29152.7	38782.7	43652.1	43593.8	41358.0	42575.4	28821.2
71°	8823.8	9094.3	11932.1	17501.7	26821.4	38074.6	43970.4	44004.9	40970.8	41297.0	27041.6
72.5°	5124.0	5354.7	8648.7	13441.2	22771.6	35120.1	42320.8	42570.1	39162.0	37562.7	23097.8
75°	1098.0	1174.9	3206.5	6505.8	12526.2	24614.8	33404.1	34292.6	31918.9	25553.7	13921.3
77.5°	763.8	824.8	1373.8	2951.9	4140.0	12162.9	20750.6	21753.1	19069.1	9603.5	4455.7
80°	604.7	673.7	1071.5	1458.7	1119.2	3922.6	9720.2	10332.9	6359.9	2143.0	750.6
82.5°	336.8	400.5	835.4	787.7	429.7	745.3	2721.1	3076.5	1273.0	432.3	177.7
85°	98.1	119.3	538.4	572.9	183.0	143.2	464.1	575.5	241.3	114.0	79.6
87.5°	0.0	0.0	259.9	220.1	53.0	21.2	42.4	47.7	47.7	47.7	53.0
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°	11391.1	11391.1	11391.1	11391.1	11391.1	11391.1	11391.1	11391.1	11391.1	11391.1	11391.1
2.5°	11436.2	11454.7	11388.4	11300.9	11208.1	11094.0	10974.7	10881.9	10879.2	10834.1	10789.0
5°	11576.7	11566.1	11383.1	11104.7	10775.8	10433.7	10107.4	9738.8	9616.8	9465.6	9415.2
7.5°	11836.7	11762.4	11375.2	10765.2	10043.8	9327.7	8587.7	7842.5	7524.2	7237.8	7187.4
10°	12162.9	12022.3	11324.8	10256.0	8932.5	7611.7	6495.2	5482.0	5036.5	4694.3	4678.4
12.5°	12502.4	12287.5	11184.2	9486.8	7476.5	5620.0	4333.7	3336.4	2965.1	2726.4	2747.7
15°	12857.7	12536.8	10881.9	8449.8	5818.9	3813.8	2662.8	2076.7	1928.1	1867.1	1883.0
17.5°	13221.1	12709.2	10460.2	7200.7	4182.5	2461.2	1843.3	1678.8	1678.8	1692.1	1697.4
20°	13536.7	12802.0	9839.6	5800.3	2835.2	1792.9	1612.5	1588.7	1601.9	1623.1	1625.8
22.5°	13849.7	12807.4	9030.7	4381.4	1983.8	1570.1	1535.6	1525.0	1533.0	1556.8	1559.5
25°	14104.3	12743.7	8017.5	3116.3	1583.3	1479.9	1464.0	1458.7	1464.0	1493.2	1493.2
27.5°	14207.7	12513.0	6781.6	2190.7	1418.9	1379.1	1373.8	1379.1	1387.1	1408.3	1411.0
30°	14218.3	12109.8	5434.3	1586.0	1286.3	1243.9	1254.5	1273.0	1265.1	1259.8	1265.1
32.5°	14244.8	11643.0	4121.5	1304.9	1174.9	1108.6	1095.3	1095.3	1063.5	1045.0	1034.3
35°	14332.4	11094.0	2989.0	1172.3	1060.9	984.0	933.6	875.2	814.2	782.4	774.4
37.5°	14470.3	10518.5	2140.3	1084.7	960.1	872.6	777.1	673.7	586.1	562.3	562.3
40°	14722.2	9924.4	1583.3	1015.8	880.5	771.8	628.6	493.3	413.7	400.5	400.5
42.5°	15120.0	9298.5	1262.4	954.8	811.6	668.3	480.0	358.0	299.7	291.7	289.1
45°	15533.8	8609.0	1103.3	896.4	737.3	549.0	355.4	265.2	230.7	222.8	222.8
47.5°	15947.5	7874.3	1026.4	840.7	665.7	427.0	265.2	209.5	193.6	193.6	196.3
50°	16297.6	7107.8	970.7	779.7	572.9	323.6	209.5	177.7	172.4	183.0	185.7
52.5°	16385.1	6354.6	901.7	702.8	458.8	246.7	172.4	156.5	156.5	156.5	156.5
55°	16332.1	5771.1	811.6	607.3	339.5	196.3	148.5	137.9	135.3	135.3	135.3
57.5°	16512.4	5426.3	649.8	472.1	244.0	159.1	130.0	122.0	116.7	114.0	114.0
60°	16875.8	5200.9	464.1	339.5	183.0	132.6	111.4	103.4	95.5	90.2	90.2
62.5°	17358.5	5004.7	344.8	252.0	140.6	106.1	92.8	84.9	74.3	69.0	69.0
65°	17729.8	4654.6	262.6	188.3	106.1	84.9	71.6	69.0	53.0	47.7	45.1
67.5°	17162.2	3885.4	212.2	137.9	79.6	66.3	55.7	53.0	31.8	26.5	26.5
70°	14719.6	2705.2	169.7	100.8	58.3	53.0	45.1	34.5	23.9	21.2	21.2
71°	13348.4	2259.7	153.8	84.9	50.4	50.4	42.4	29.2	21.2	18.6	18.6
72.5°	11088.7	1604.6	130.0	66.3	45.1	53.0	45.1	26.5	21.2	18.6	15.9
75°	6436.8	671.0	90.2	45.1	34.5	63.7	58.3	23.9	15.9	13.3	13.3
77.5°	1936.1	246.7	50.4	29.2	26.5	55.7	66.3	21.2	8.0	2.7	2.7
80°	352.7	106.1	31.8	18.6	18.6	34.5	50.4	10.6	0.0	0.0	0.0
82.5°	124.7	53.0	18.6	10.6	8.0	15.9	23.9	0.0	0.0	0.0	0.0
85°	71.6	37.1	10.6	5.3	0.0	2.7	5.3	0.0	0.0	0.0	0.0
87.5°	47.7	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)