

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: P321271

Luminaire Tested: **GAN-SA7A-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26607 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

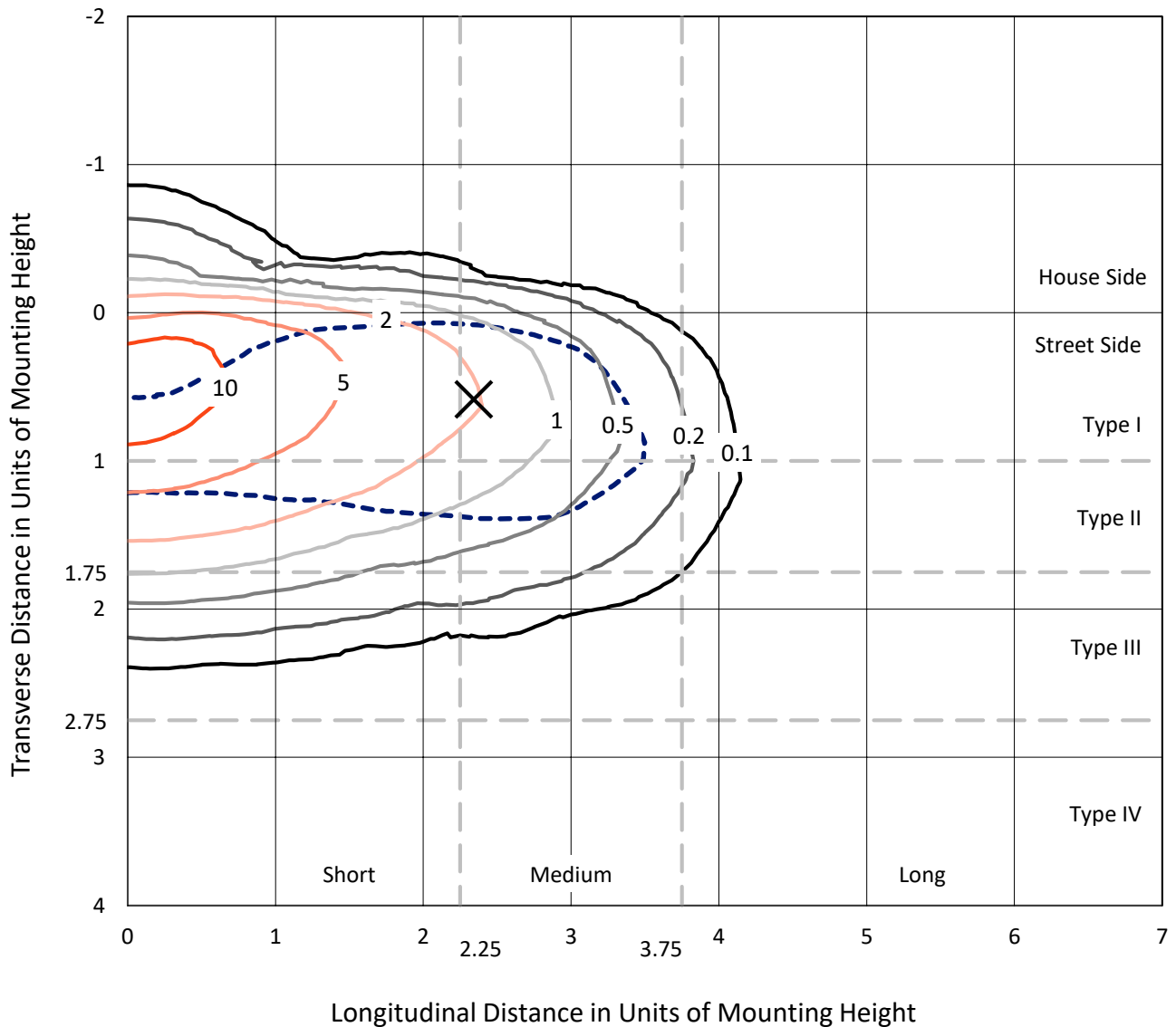
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

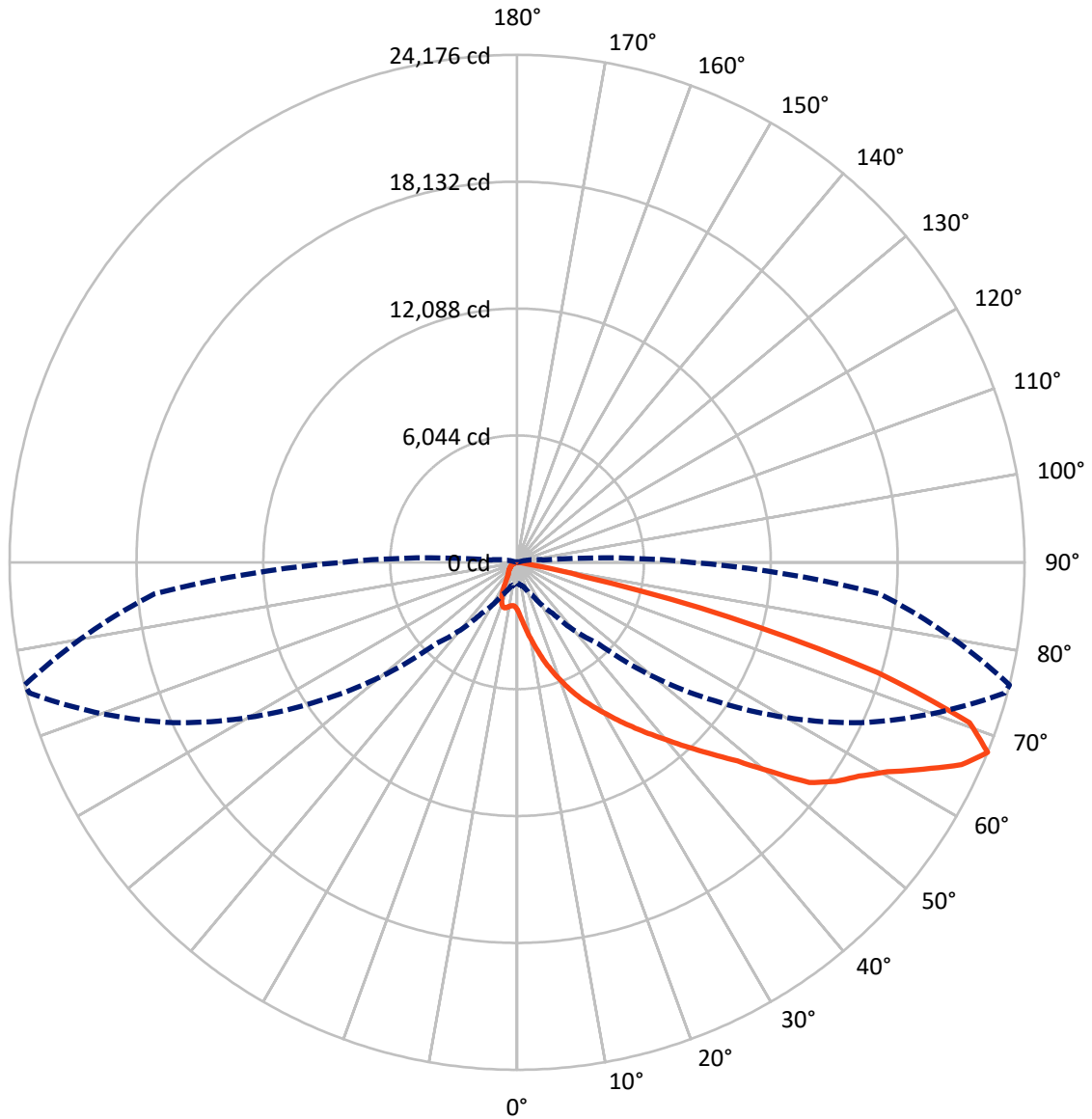
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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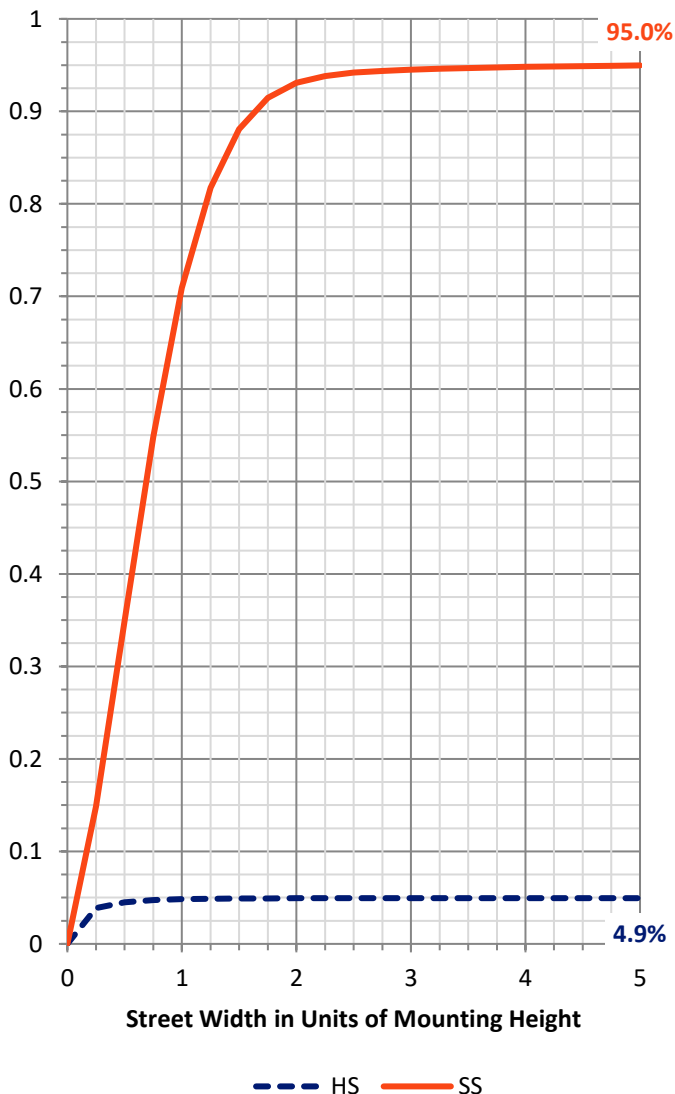
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1321.2	0.0	1321.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	25285.8	0.0	25285.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	26607.0	0.0	26607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.7	1.1
10°-20°	1112.6	4.2
20°-30°	2263.7	8.5
30°-40°	3929.1	14.8
40°-50°	5551.3	20.9
50°-60°	6295.4	23.7
60°-70°	5221.5	19.6
70°-80°	1891.4	7.1
80°-90°	61.3	0.2
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°	26607.0	100.0
0°-180°	26607.0	100.0

Coefficient of Utilization



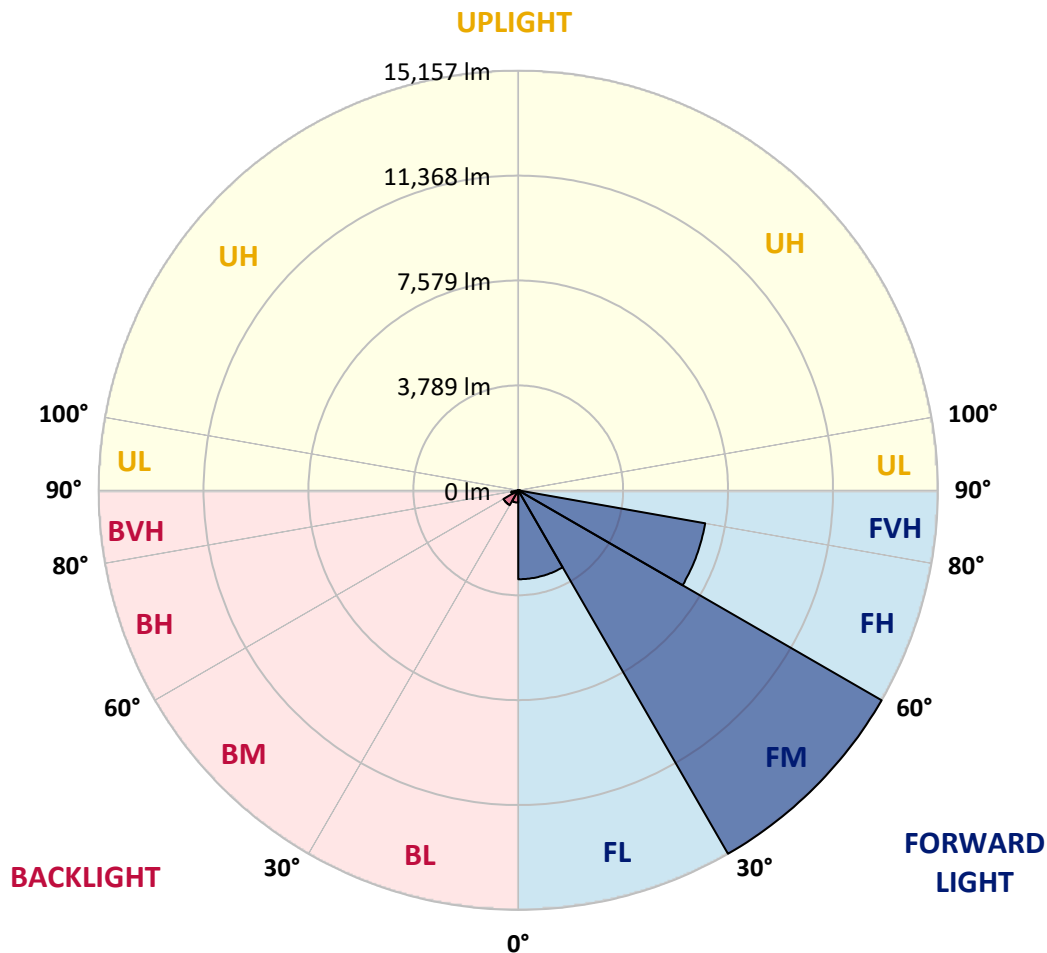
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3211.4	12.1			
FM (30°-60°)	15157.5	57.0			
FH (60°-80°)	6857.5	25.8			G3/7500
FVH (80°-90°)	59.4	0.2			G1/100
BL (0°-30°)	445.6	1.7	B1/500		
BM (30°-60°)	618.4	2.3	B1/1000		
BH (60°-80°)	255.3	1.0	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0
2.5°	3369.2	3293.5	3311.0	3262.0	3173.4	2991.5	2836.5	2689.6	2518.2	2512.4	2371.3
5°	4543.2	4479.1	4471.0	4371.9	4211.0	3902.0	3601.2	3258.5	2876.1	2848.1	2548.5
7.5°	5608.8	5557.5	5538.9	5421.1	5121.5	4820.7	4429.0	3925.3	3327.3	3276.0	2787.5
10°	6427.2	6402.7	6407.4	6323.5	6067.0	5787.2	5273.0	4630.7	3839.1	3759.8	3074.3
12.5°	7047.4	7053.3	7095.2	7043.9	6900.5	6693.0	6143.9	5382.6	4405.7	4297.2	3401.9
15°	7503.3	7532.4	7609.4	7673.5	7663.0	7483.5	6979.8	6146.2	5007.2	4887.2	3766.8
17.5°	7798.2	7830.9	7942.8	8085.0	8215.6	8173.6	7786.6	6883.1	5615.8	5477.1	4157.3
20°	8057.0	8095.5	8215.6	8403.3	8647.0	8699.4	8445.3	7597.7	6223.2	6054.1	4560.7
22.5°	8617.8	8616.6	8690.1	8799.7	9031.7	9166.9	9006.0	8261.1	6823.6	6647.6	4972.3
25°	9632.1	9593.6	9568.0	9481.7	9533.0	9616.9	9527.2	8881.3	7427.5	7249.1	5389.6
27.5°	10837.5	10860.9	10653.3	10421.3	10241.8	10155.5	10008.6	9456.0	8008.1	7812.2	5797.7
30°	12109.5	12116.5	11871.6	11575.5	11180.3	10852.7	10598.5	10005.1	8605.0	8391.6	6194.0
32.5°	13256.6	13211.2	12968.7	12565.3	12066.3	11697.9	11169.8	10618.4	9236.9	9030.5	6634.7
35°	14166.0	14112.4	13817.4	13450.2	12932.5	12561.8	11926.4	11230.4	9901.4	9699.7	7076.6
37.5°	14830.5	14767.6	14464.4	14086.7	13640.2	13424.5	12804.3	11896.1	10626.5	10409.7	7541.7
40°	15061.3	15006.5	14816.5	14540.2	14181.1	14132.2	13735.8	12662.1	11415.8	11185.0	8068.7
42.5°	14923.8	14870.1	14802.5	14709.3	14560.0	14606.7	14614.8	13535.3	12292.5	12065.2	8650.4
45°	14378.2	14330.4	14400.3	14536.7	14722.1	14952.9	15416.9	14473.8	13271.8	13029.3	9323.1
47.5°	13574.9	13539.9	13733.5	14073.9	14616.0	15252.5	16150.2	15460.1	14371.2	14146.2	10162.5
50°	12432.4	12426.6	12813.6	13435.0	14268.6	15397.1	16908.0	16581.6	15898.4	15661.7	11329.5
52.5°	10653.3	10665.0	11426.3	12420.7	13658.8	15299.2	17395.3	18022.5	17675.1	17429.1	12340.3
55°	8959.4	9029.3	9569.1	11003.1	12723.9	14935.4	17563.2	18695.2	18655.6	18422.4	12902.2
57.5°	7300.4	7427.5	7947.5	9287.0	11358.7	14097.2	17471.1	18986.7	19385.4	19207.0	13643.7
60°	5502.7	5561.0	6160.2	7412.3	9606.4	12567.6	16803.1	19145.2	20383.3	20259.8	14719.8
62.5°	3501.0	3646.7	4178.3	5386.1	7480.0	10443.5	15676.9	19142.9	21632.0	21699.6	16108.3
65°	1844.3	2014.6	2296.7	3337.8	5140.1	8071.0	13982.9	18963.4	23163.8	23258.3	17193.6
67.5°	994.5	1043.4	1192.6	1732.4	2981.0	5467.7	11493.9	18077.3	24051.0	24175.8	17345.2
70°	727.5	754.3	810.3	958.3	1500.4	3175.7	8387.0	16068.6	22907.4	22860.7	15411.1
72.5°	558.4	600.4	642.4	701.8	862.7	1695.1	5221.7	12582.8	18277.9	17970.1	11519.6
75°	440.7	447.7	507.1	560.8	647.0	965.3	2318.8	7328.4	11155.8	10427.2	5973.7
77.5°	352.1	356.7	391.7	438.4	520.0	634.2	718.2	2883.1	3561.6	3178.0	1296.4
80°	208.7	220.3	291.5	338.1	431.4	399.9	262.3	626.0	556.1	503.6	218.0
82.5°	116.6	125.9	164.4	267.0	300.8	191.2	130.6	169.0	130.6	127.1	61.8
85°	0.0	5.8	106.1	165.5	122.4	42.0	54.8	56.0	38.5	36.1	24.5
87.5°	0.0	0.0	32.6	31.5	4.7	7.0	12.8	18.7	15.2	15.2	12.8
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°	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0
2.5°	2301.3	2238.4	2119.5	2002.9	1905.0	1824.5	1752.2	1723.1	1699.8	1696.3	1677.6
5°	2403.9	2276.9	2049.5	1863.0	1738.3	1649.6	1573.9	1527.2	1491.1	1477.1	1464.3
7.5°	2559.0	2366.6	2040.2	1825.7	1676.5	1527.2	1387.3	1235.8	1141.3	1105.2	1084.2
10°	2747.9	2485.5	2075.2	1815.2	1554.0	1239.3	1007.3	814.9	736.8	711.2	704.2
12.5°	2968.2	2633.6	2135.8	1749.9	1292.9	880.2	694.8	629.5	612.1	603.9	603.9
15°	3221.2	2795.7	2178.9	1561.0	956.0	665.7	601.6	571.3	552.6	542.1	543.3
17.5°	3480.0	2954.2	2157.9	1287.1	705.3	592.2	544.4	511.8	486.2	475.7	473.3
20°	3741.1	3101.1	2041.4	958.3	596.9	537.4	483.8	447.7	422.0	411.5	409.2
22.5°	4011.6	3225.8	1836.2	703.0	536.3	476.8	424.4	388.2	363.7	354.4	349.7
25°	4275.1	3327.3	1549.4	568.9	479.2	419.7	369.6	335.8	313.6	304.3	303.1
27.5°	4521.1	3391.4	1217.1	502.5	429.0	368.4	322.9	292.6	274.0	267.0	265.8
30°	4742.6	3397.2	900.0	453.5	384.7	324.1	282.1	255.3	239.0	232.0	229.7
32.5°	4966.4	3348.3	655.2	409.2	343.9	285.6	244.8	223.8	212.2	206.4	206.4
35°	5177.4	3235.2	510.6	370.7	304.3	248.3	215.7	200.5	193.5	187.7	187.7
37.5°	5383.8	3073.1	433.7	336.9	267.0	216.8	190.0	180.7	174.9	169.0	169.0
40°	5593.6	2869.1	394.1	305.4	236.7	192.4	169.0	160.9	155.1	150.4	149.2
42.5°	5851.3	2633.6	368.4	276.3	209.8	170.2	149.2	139.9	135.2	130.6	128.2
45°	6149.7	2430.8	347.4	247.2	187.7	151.6	129.4	120.1	113.1	107.3	106.1
47.5°	6579.9	2283.9	319.4	215.7	166.7	131.7	111.9	101.4	90.9	85.1	83.9
50°	7129.0	2162.6	283.3	187.7	145.7	111.9	93.3	80.4	71.1	65.3	65.3
52.5°	7401.8	2004.1	250.7	163.2	122.4	94.4	75.8	60.6	56.0	50.1	50.1
55°	7511.4	1882.8	218.0	138.7	101.4	78.1	59.5	46.6	43.1	39.6	38.5
57.5°	7819.2	1847.8	190.0	117.7	83.9	61.8	45.5	35.0	32.6	28.0	28.0
60°	8314.7	1865.3	164.4	100.3	67.6	47.8	33.8	26.8	24.5	19.8	19.8
62.5°	8849.8	1843.2	138.7	86.3	52.5	35.0	23.3	19.8	19.8	11.7	10.5
65°	8952.4	1641.5	118.9	71.1	40.8	25.6	15.2	12.8	17.5	2.3	0.0
67.5°	8308.9	1273.1	102.6	54.8	30.3	19.8	11.7	5.8	15.2	0.0	0.0
70°	6644.1	809.1	82.8	39.6	23.3	16.3	9.3	2.3	11.7	0.0	0.0
72.5°	4698.3	469.8	65.3	28.0	19.8	12.8	7.0	0.0	7.0	0.0	0.0
75°	2376.0	250.7	40.8	21.0	15.2	9.3	4.7	0.0	1.2	0.0	0.0
77.5°	514.1	116.6	25.6	15.2	10.5	5.8	2.3	0.0	0.0	0.0	0.0
80°	111.9	51.3	16.3	9.3	5.8	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	40.8	26.8	8.2	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.2	14.0	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	4.7	1.2	1.2	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)