

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: P324758

Luminaire Tested: **GAN-SA4B-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17186 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

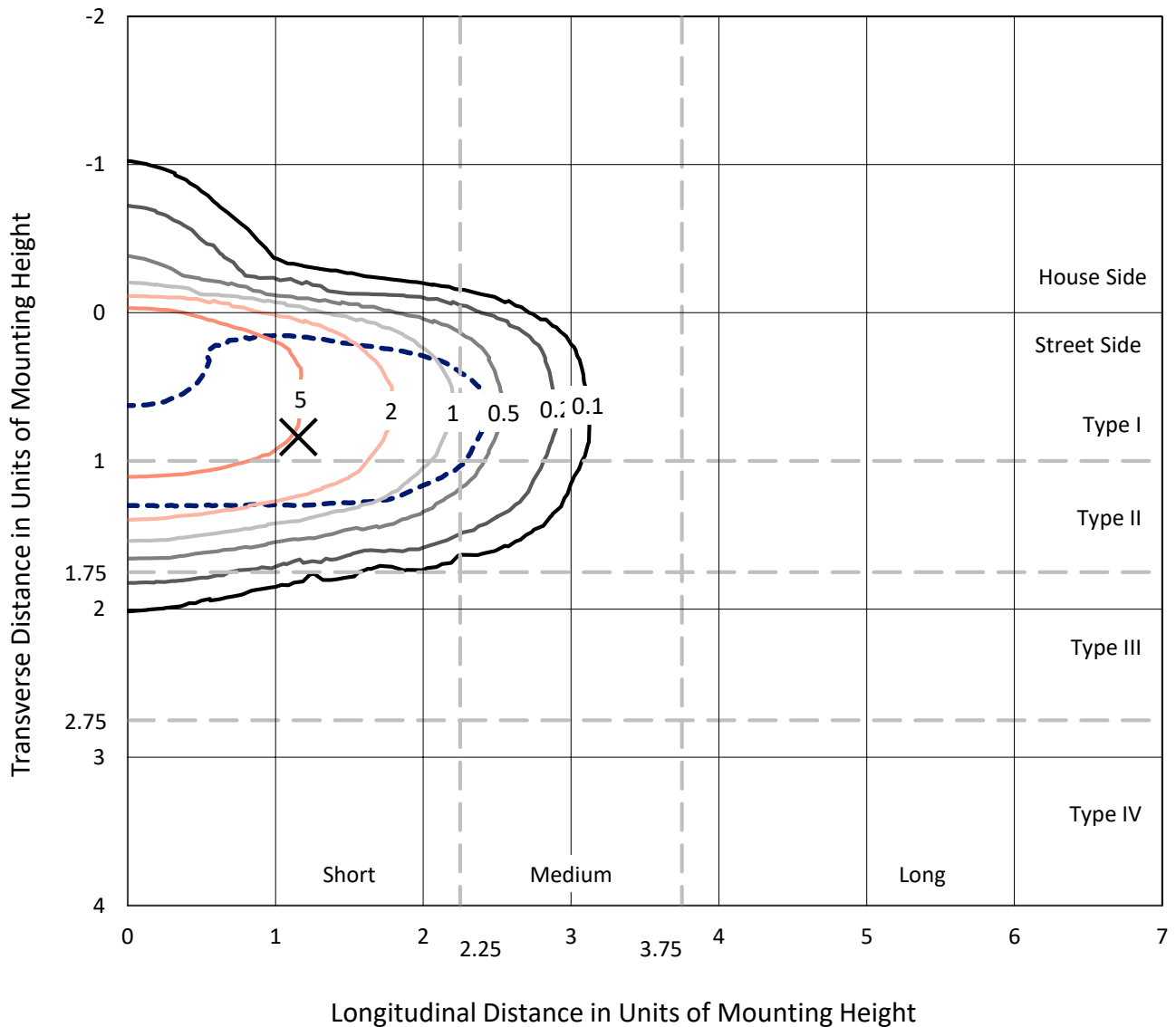
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

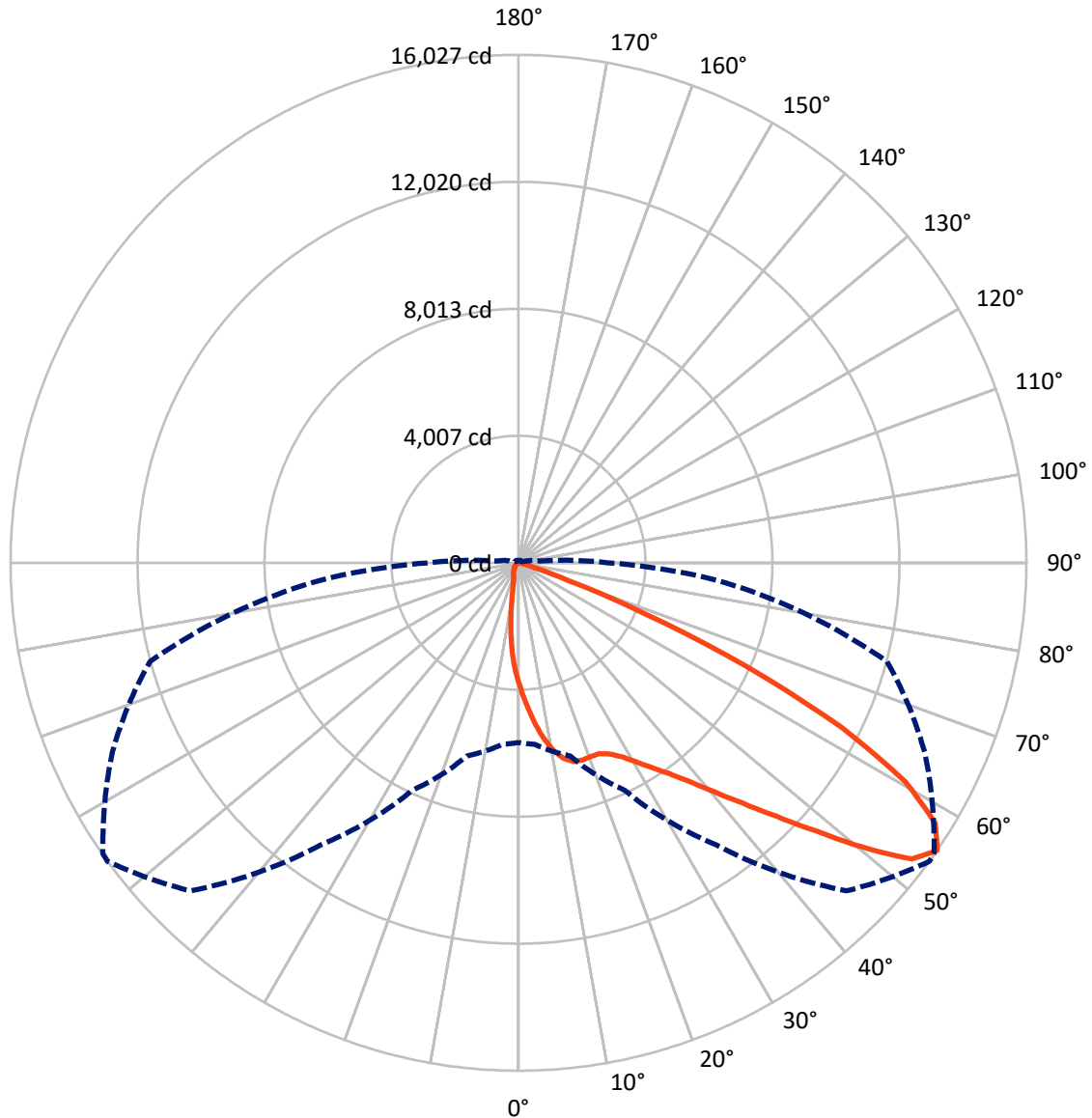
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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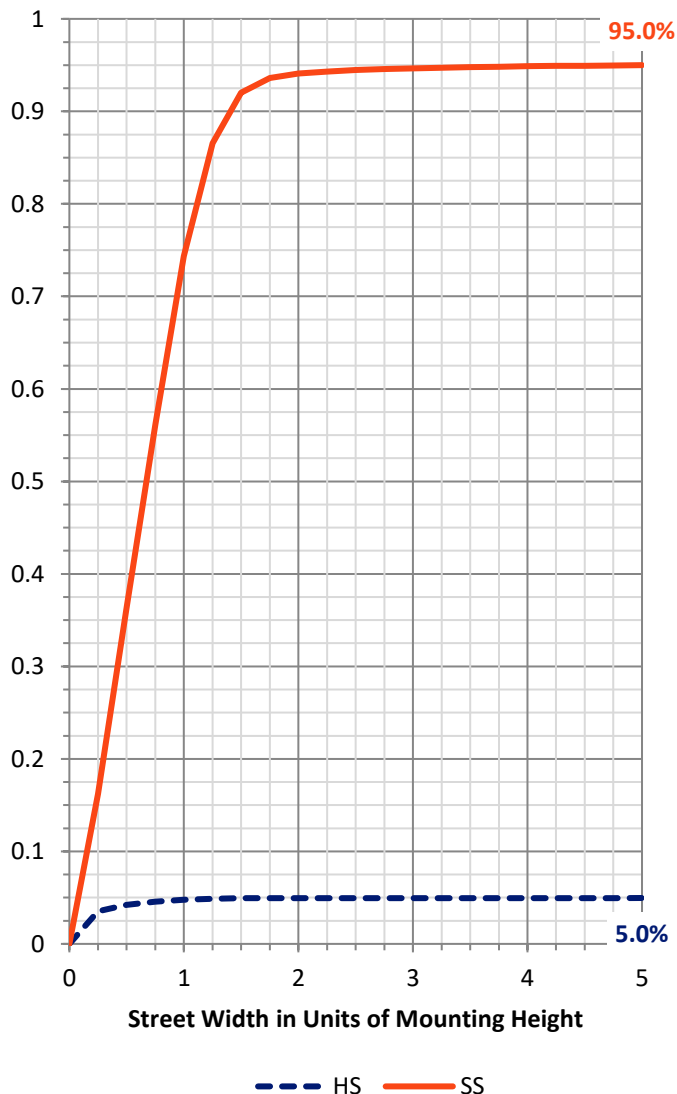
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	857.5	0.0	857.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	16328.6	0.0	16328.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	17186.0	0.0	17186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.4	2.1
10°-20°	972.1	5.7
20°-30°	1659.7	9.7
30°-40°	2663.5	15.5
40°-50°	4256.3	24.8
50°-60°	4560.7	26.5
60°-70°	2341.6	13.6
70°-80°	354.7	2.1
80°-90°	23.1	0.1
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°	17186.0	100.0
0°-180°	17186.0	100.0

Coefficient of Utilization

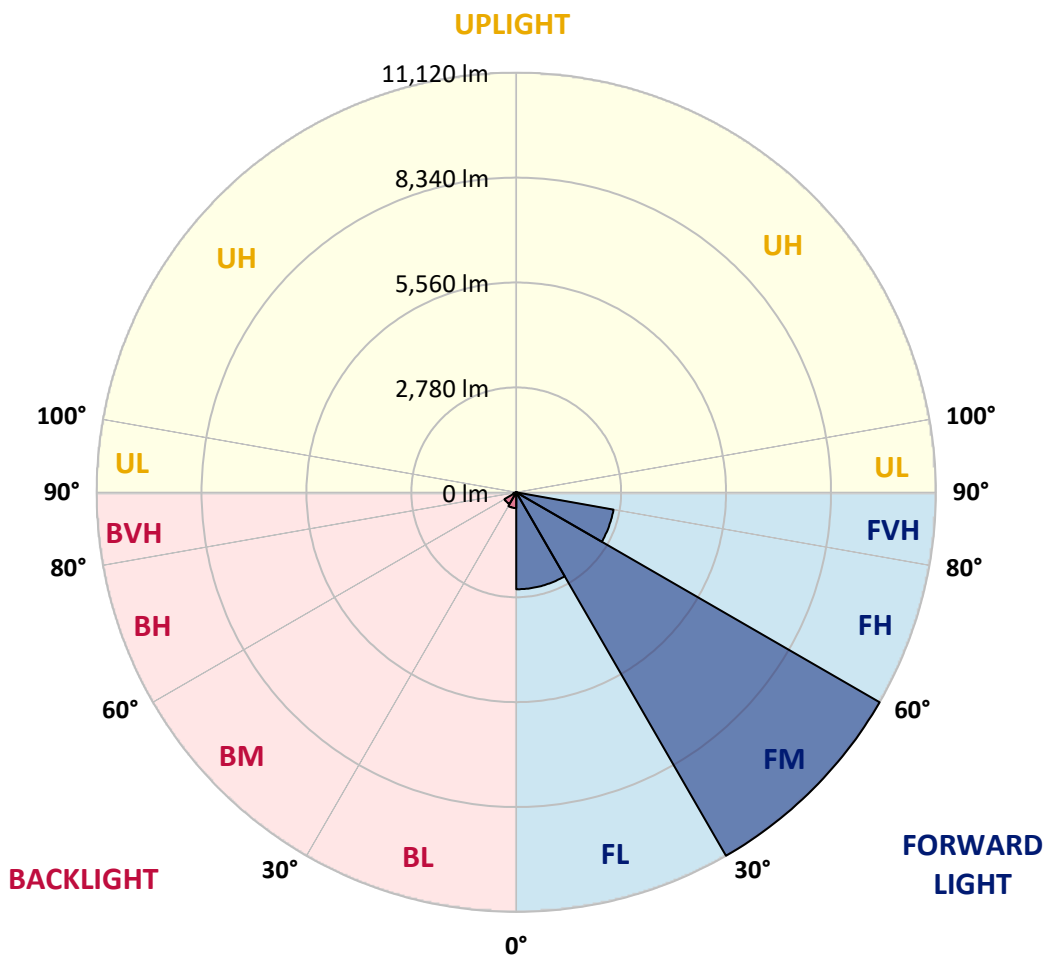


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2569.0	14.9			
FM (30°-60°)	11120.1	64.7			
FH (60°-80°)	2617.3	15.2			G2/5000
FVH (80°-90°)	22.2	0.1			G1/100
BL (0°-30°)	417.2	2.4	B1/500		
BM (30°-60°)	360.3	2.1	B1/1000		
BH (60°-80°)	79.0	0.5	B0/110		G0/110
BVH (80°-90°)	0.9	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3849.0	3849.0	3849.0	3849.0	3849.0	3849.0	3849.0	3849.0	3849.0	3849.0	3849.0
2.5°	4830.1	4758.2	4760.4	4727.7	4608.2	4514.7	4417.5	4394.5	4243.1	4084.2	3931.4
5°	5665.1	5612.4	5599.8	5536.7	5370.5	5194.6	5006.0	4962.3	4666.1	4341.0	4021.2
7.5°	6094.1	6094.8	6084.4	6061.4	5957.5	5786.8	5556.7	5510.7	5107.7	4620.1	4114.7
10°	5969.4	5997.6	6055.5	6131.9	6211.4	6189.8	6016.9	5975.3	5537.4	4915.5	4218.6
12.5°	5678.5	5682.2	5746.7	5872.2	6100.8	6335.3	6338.3	6324.2	5947.9	5224.2	4332.9
15°	5533.7	5547.8	5571.6	5652.5	5869.2	6244.7	6513.4	6533.5	6324.2	5552.3	4454.6
17.5°	5628.7	5648.8	5628.7	5638.4	5763.8	6101.5	6543.8	6595.1	6653.0	5876.6	4569.6
20°	5886.3	5904.8	5869.2	5829.9	5854.4	6059.9	6522.3	6591.3	6910.5	6164.6	4666.1
22.5°	6233.6	6241.0	6186.9	6122.3	6104.5	6201.0	6540.1	6611.4	7116.8	6425.1	4727.0
25°	6615.8	6622.5	6555.0	6480.8	6438.5	6477.8	6686.3	6739.8	7298.7	6673.7	4761.9
27.5°	7032.2	7038.1	6953.5	6862.2	6813.3	6814.7	6927.6	6984.7	7492.4	6957.2	4790.1
30°	7472.3	7469.4	7391.4	7264.5	7202.2	7200.7	7274.9	7332.8	7772.9	7320.9	4828.7
32.5°	7966.6	7960.7	7850.1	7692.8	7622.2	7632.6	7698.7	7732.1	8121.0	7708.3	4897.7
35°	8617.5	8600.4	8433.5	8238.3	8108.4	8104.7	8160.3	8187.0	8564.8	8177.4	5012.7
37.5°	9462.1	9446.5	9220.2	8936.7	8754.1	8685.8	8751.9	8786.0	9197.9	8779.3	5197.5
40°	10294.9	10279.3	10144.9	9885.2	9603.9	9439.9	9491.8	9528.2	9988.3	9509.6	5430.6
42.5°	10869.3	10882.7	10929.4	10950.9	10687.5	10343.1	10366.8	10404.7	10818.8	10290.4	5697.0
45°	11020.7	11049.7	11313.9	11832.7	11931.4	11662.7	11414.1	11434.9	11662.7	11071.2	5963.5
47.5°	10565.8	10619.2	11129.1	12093.9	12929.6	13119.6	12649.1	12621.6	12472.4	11702.8	6152.7
50°	9531.9	9580.9	10241.4	11668.6	13232.4	14510.5	14129.0	14048.1	13182.7	12080.6	6219.5
52.5°	8035.6	8095.0	8631.6	10329.7	12661.7	15130.9	15530.2	15462.7	13703.7	12110.2	6230.6
55°	5674.8	5746.7	6314.5	7916.9	10853.0	14637.4	16026.8	16006.7	14136.4	12031.6	6254.4
57.5°	3189.2	3241.1	3853.4	5075.1	7948.8	12749.3	15508.0	15640.8	14397.7	11895.0	6290.0
60°	1416.1	1430.2	1747.1	2526.4	4653.5	9743.4	14022.9	14247.0	14173.5	11712.4	6350.1
62.5°	785.2	773.4	773.4	1050.2	2022.5	6031.7	11434.9	11805.2	13216.8	11496.5	6353.1
65°	615.3	604.1	572.2	576.7	770.4	2677.1	7918.4	8576.7	11400.0	10863.4	6139.4
67.5°	521.8	512.1	480.2	467.6	478.7	883.2	4350.7	5034.2	8650.2	9217.9	5317.8
70°	440.9	434.2	417.9	402.3	374.1	436.4	1664.7	2129.3	5330.4	6131.9	3630.0
72.5°	354.8	351.8	357.7	344.4	310.2	290.9	569.3	689.5	2394.3	2736.4	1495.5
75°	305.8	304.3	307.3	293.9	255.3	202.6	289.5	316.2	675.4	669.5	302.8
77.5°	198.9	201.1	254.6	248.6	219.7	135.1	149.9	161.8	204.8	153.6	92.0
80°	126.9	125.4	129.1	206.3	197.4	103.2	75.0	78.7	98.7	75.7	44.5
82.5°	77.2	75.7	84.6	96.5	99.5	72.0	46.0	46.8	61.6	49.0	23.7
85°	6.7	8.9	51.2	47.5	34.1	22.3	22.3	23.7	32.7	28.9	13.4
87.5°	0.0	0.0	8.9	13.4	7.4	8.2	8.2	8.9	12.6	12.6	6.7
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°	3849.0	3849.0	3849.0	3849.0	3849.0	3849.0	3849.0	3849.0	3849.0	3849.0	3849.0
2.5°	3851.9	3774.8	3618.9	3469.0	3342.1	3219.6	3080.1	2942.0	2877.5	2851.5	2824.8
5°	3858.6	3699.8	3378.4	3054.8	2719.4	2417.3	2159.8	1895.5	1763.4	1705.5	1678.8
7.5°	3867.5	3625.6	3106.0	2562.8	2022.5	1612.8	1255.0	1025.0	925.5	909.9	871.3
10°	3869.0	3535.8	2789.9	2019.5	1356.0	972.3	748.1	629.4	585.6	578.2	565.5
12.5°	3872.0	3429.6	2438.8	1495.5	904.0	650.2	541.1	501.7	489.8	489.1	489.1
15°	3880.9	3318.3	2074.4	1077.7	649.4	515.1	475.0	459.4	455.0	457.2	456.4
17.5°	3880.9	3186.9	1716.7	803.0	524.7	463.1	440.9	430.5	429.0	431.2	432.0
20°	3852.7	3027.4	1388.6	624.9	465.4	429.7	409.7	400.0	396.3	397.8	398.6
22.5°	3785.1	2831.4	1121.4	517.3	426.0	399.3	377.8	362.9	357.0	357.7	357.7
25°	3679.8	2599.1	877.3	447.5	394.1	366.6	341.4	324.3	320.6	319.9	321.4
27.5°	3544.7	2342.3	698.4	394.1	356.2	330.3	305.0	290.9	288.0	288.7	289.5
30°	3411.8	2075.9	550.7	348.8	313.9	289.5	270.2	263.5	263.5	265.7	266.4
32.5°	3290.1	1819.8	435.7	309.5	276.1	253.8	242.7	242.0	245.7	247.1	247.9
35°	3185.5	1583.1	360.7	279.1	246.4	227.1	223.4	226.4	230.8	233.8	234.5
37.5°	3111.2	1371.6	315.4	253.8	223.4	207.8	207.1	213.0	218.9	225.6	227.1
40°	3080.1	1192.7	284.3	231.6	204.8	193.0	190.7	198.9	210.0	219.7	221.2
42.5°	3054.1	1046.5	257.5	210.0	190.0	172.9	172.2	182.6	195.9	205.6	207.8
45°	3031.8	929.2	233.0	187.0	170.7	148.4	150.7	164.0	174.4	184.8	187.0
47.5°	2985.8	832.7	206.3	162.5	141.0	126.9	131.4	143.2	151.4	167.0	169.2
50°	2903.4	754.1	178.9	132.9	115.0	109.8	116.5	124.7	135.1	148.4	149.9
52.5°	2847.8	694.7	155.1	111.3	95.0	96.5	103.2	106.1	112.1	117.3	115.8
55°	2815.9	662.0	135.8	96.5	80.9	85.4	86.8	83.1	80.2	75.0	72.7
57.5°	2812.1	632.3	121.0	83.9	71.2	73.5	68.3	55.7	45.3	39.3	37.9
60°	2806.2	596.0	109.1	70.5	63.1	60.1	49.0	30.4	21.5	20.0	20.0
62.5°	2741.6	539.6	100.2	59.4	53.4	45.3	28.2	14.1	11.9	12.6	12.6
65°	2536.0	460.9	91.3	48.2	42.3	32.7	14.1	8.2	4.5	5.2	5.2
67.5°	2156.0	367.4	81.6	37.1	31.9	20.8	8.2	3.7	0.0	0.0	0.0
70°	1443.6	227.9	69.0	26.0	20.8	12.6	5.9	0.7	0.0	0.0	0.0
72.5°	553.7	123.2	55.7	15.6	13.4	8.9	3.7	0.0	0.0	0.0	0.0
75°	124.7	80.9	38.6	11.1	9.6	5.9	1.5	0.0	0.0	0.0	0.0
77.5°	47.5	58.6	22.3	7.4	6.7	3.7	0.0	0.0	0.0	0.0	0.0
80°	23.0	34.9	10.4	4.5	3.7	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	11.9	13.4	4.5	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.7	6.7	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	2.2	0.7	0.7	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)