

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: P324798

Luminaire Tested: **GAN-SA4B-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324798
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-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 18870 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

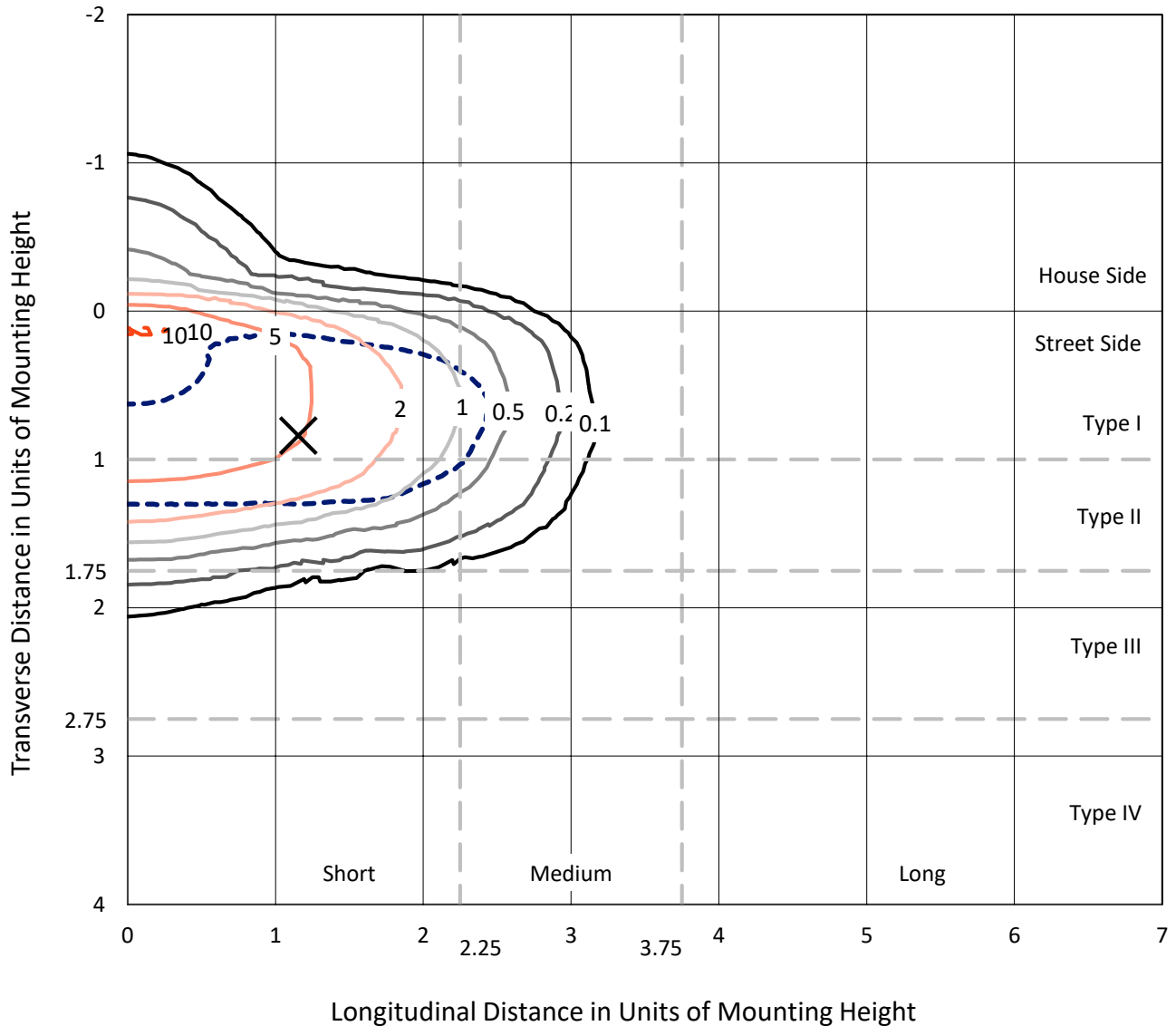
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

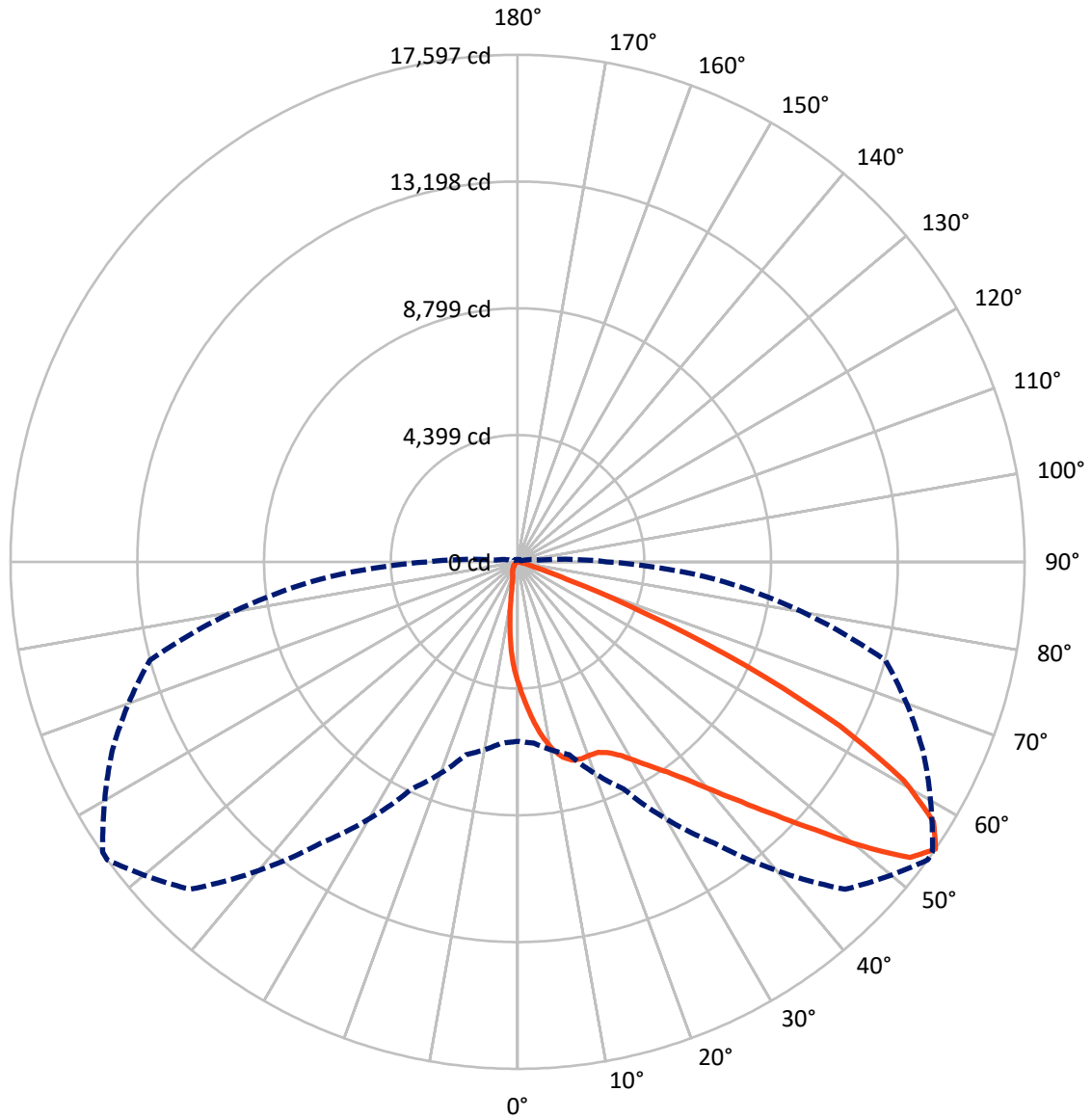
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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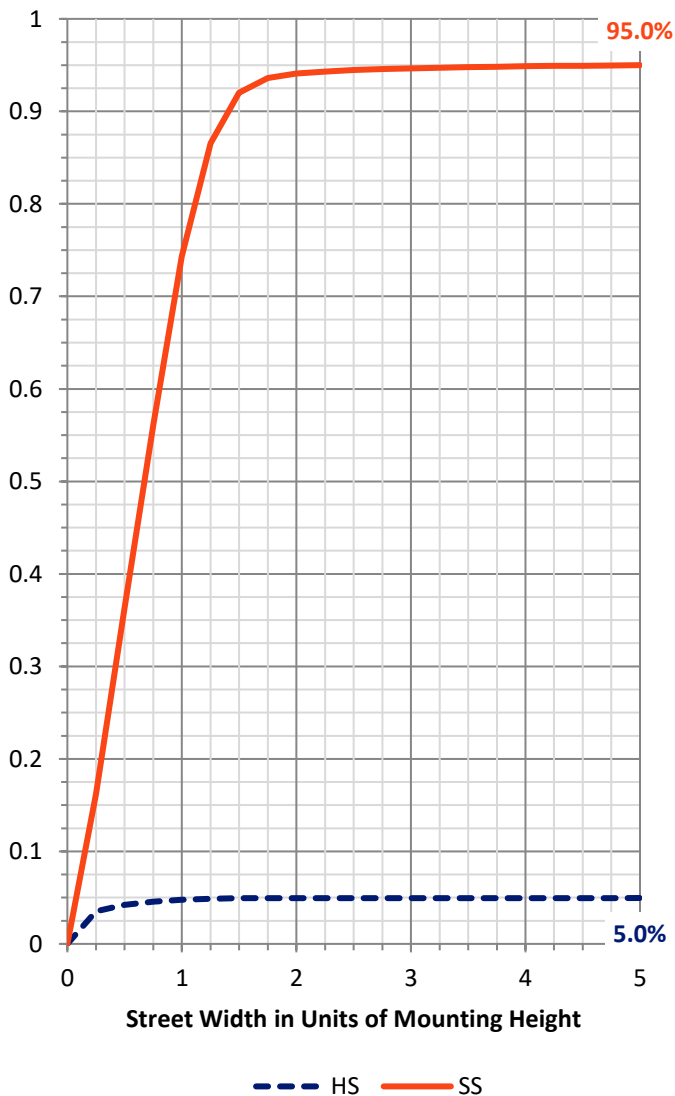
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	941.5	0.0	941.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	17928.5	0.0	17928.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	18870.0	0.0	18870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.2	2.1
10°-20°	1067.3	5.7
20°-30°	1822.3	9.7
30°-40°	2924.5	15.5
40°-50°	4673.3	24.8
50°-60°	5007.6	26.5
60°-70°	2571.0	13.6
70°-80°	389.4	2.1
80°-90°	25.4	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°	18870.0	100.0
0°-180°	18870.0	100.0

Coefficient of Utilization



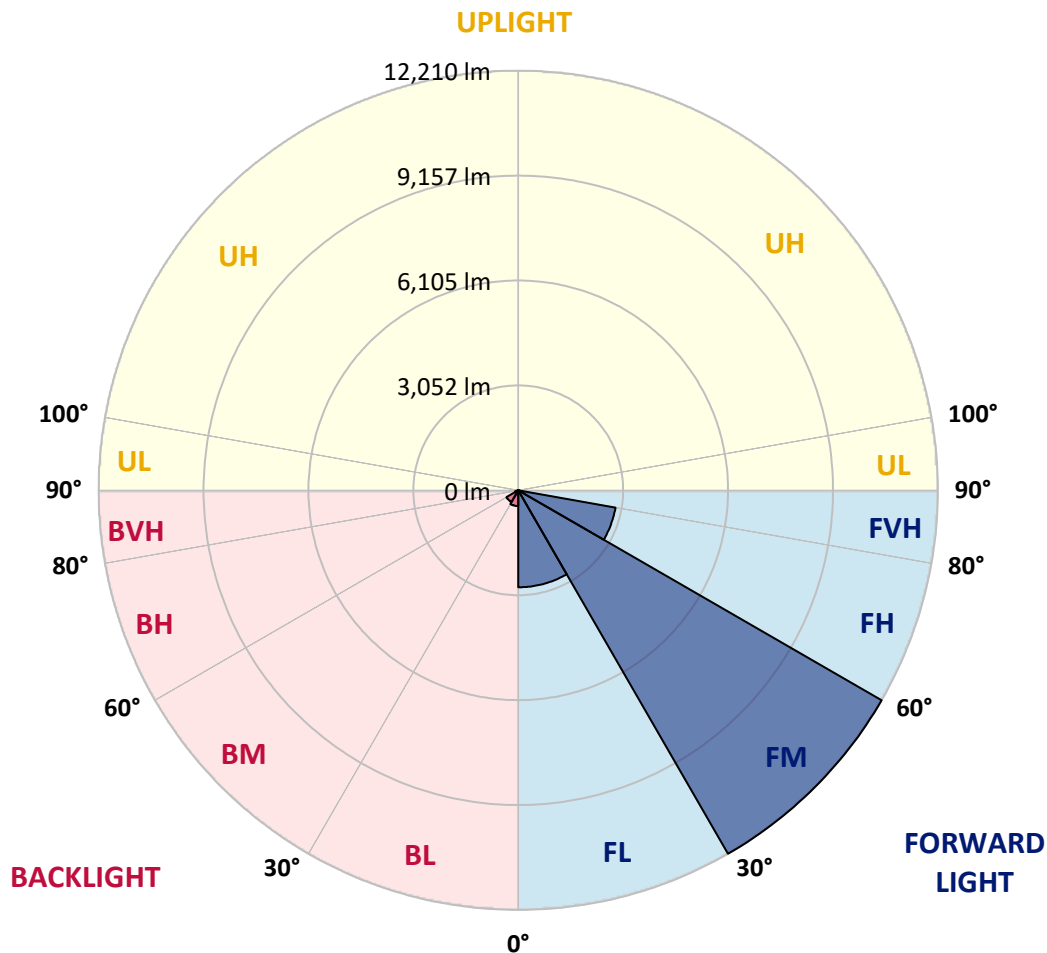
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2820.7	14.9			
FM (30°-60°)	12209.7	64.7			
FH (60°-80°)	2873.7	15.2			G2/5000
FVH (80°-90°)	24.3	0.1			G1/100
BL (0°-30°)	458.1	2.4	B1/500		
BM (30°-60°)	395.6	2.1	B1/1000		
BH (60°-80°)	86.8	0.5	B0/110		G0/110
BVH (80°-90°)	1.0	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°	4226.1	4226.1	4226.1	4226.1	4226.1	4226.1	4226.1	4226.1	4226.1	4226.1	4226.1
2.5°	5303.4	5224.4	5226.8	5191.0	5059.8	4957.1	4850.3	4825.1	4658.8	4484.4	4316.6
5°	6220.2	6162.3	6148.5	6079.2	5896.7	5703.6	5496.6	5448.5	5123.3	4766.4	4415.2
7.5°	6691.2	6692.0	6680.6	6655.4	6541.3	6353.9	6101.2	6050.7	5608.2	5072.8	4517.9
10°	6554.3	6585.3	6648.8	6732.8	6820.0	6796.3	6606.5	6560.8	6080.0	5397.1	4631.9
12.5°	6234.9	6239.0	6309.8	6447.6	6698.6	6956.1	6959.3	6943.8	6530.7	5736.2	4757.4
15°	6076.0	6091.5	6117.5	6206.4	6444.3	6856.7	7151.6	7173.7	6943.8	6096.3	4891.1
17.5°	6180.3	6202.3	6180.3	6190.9	6328.6	6699.4	7185.1	7241.3	7304.9	6452.5	5017.4
20°	6463.1	6483.4	6444.3	6401.1	6428.0	6653.7	7161.4	7237.2	7587.6	6768.6	5123.3
22.5°	6844.4	6852.6	6793.1	6722.2	6702.6	6808.6	7181.0	7259.2	7814.2	7054.7	5190.2
25°	7264.1	7271.4	7197.3	7115.8	7069.3	7112.5	7341.5	7400.2	8013.8	7327.7	5228.5
27.5°	7721.3	7727.8	7634.9	7534.7	7480.9	7482.5	7606.4	7669.1	8226.5	7639.0	5259.4
30°	8204.5	8201.3	8115.7	7976.3	7907.9	7906.3	7987.7	8051.3	8534.6	8038.3	5301.8
32.5°	8747.2	8740.7	8619.3	8446.5	8369.1	8380.5	8453.1	8489.7	8916.7	8463.7	5377.6
35°	9461.9	9443.2	9259.8	9045.5	8902.9	8898.8	8959.9	8989.3	9404.1	8978.7	5503.9
37.5°	10389.3	10372.2	10123.6	9812.3	9611.9	9536.9	9609.4	9646.9	10099.2	9639.6	5706.8
40°	11303.6	11286.5	11139.0	10853.8	10544.9	10364.8	10421.9	10461.8	10967.1	10441.4	5962.7
42.5°	11934.4	11949.0	12000.4	12024.0	11734.7	11356.6	11382.7	11424.2	11878.9	11298.7	6255.2
45°	12100.6	12132.4	12422.5	12992.1	13100.5	12805.5	12532.5	12555.3	12805.5	12156.0	6547.8
47.5°	11601.1	11659.7	12219.6	13279.0	14196.5	14405.2	13888.5	13858.4	13694.6	12849.5	6755.6
50°	10465.9	10519.7	11244.9	12812.0	14529.0	15932.3	15513.4	15424.6	14474.4	13264.3	6828.9
52.5°	8823.0	8888.2	9477.4	11341.9	13902.4	16613.6	17052.0	16977.8	15046.5	13296.9	6841.2
55°	6230.8	6309.8	6933.3	8692.6	11916.4	16071.7	17597.2	17575.2	15521.6	13210.5	6867.2
57.5°	3501.7	3558.7	4231.0	5572.4	8727.7	13998.5	17027.5	17173.4	15808.4	13060.6	6906.4
60°	1554.8	1570.3	1918.3	2774.0	5109.5	10698.1	15396.9	15643.0	15562.3	12860.1	6972.4
62.5°	862.2	849.1	849.1	1153.1	2220.6	6622.8	12555.3	12962.0	14511.9	12623.0	6975.6
65°	675.6	663.3	628.3	633.2	845.9	2939.4	8694.3	9417.1	12517.0	11927.8	6740.9
67.5°	572.9	562.3	527.2	513.4	525.6	969.7	4777.0	5527.5	9497.8	10121.2	5838.8
70°	484.1	476.7	458.8	441.7	410.7	479.2	1827.8	2338.0	5852.7	6732.8	3985.7
72.5°	389.5	386.3	392.8	378.1	340.6	319.4	625.0	757.1	2628.9	3004.6	1642.0
75°	335.7	334.1	337.4	322.7	280.3	222.5	317.8	347.2	741.6	735.0	332.5
77.5°	218.4	220.8	279.5	273.0	241.2	148.3	164.6	177.7	224.9	168.7	101.0
80°	139.3	137.7	141.8	226.5	216.8	113.3	82.3	86.4	108.4	83.1	48.9
82.5°	84.8	83.1	92.9	105.9	109.2	79.0	50.5	51.3	67.6	53.8	26.1
85°	7.3	9.8	56.2	52.2	37.5	24.4	24.4	26.1	35.9	31.8	14.7
87.5°	0.0	0.0	9.8	14.7	8.1	9.0	9.0	9.8	13.9	13.9	7.3
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°	4226.1	4226.1	4226.1	4226.1	4226.1	4226.1	4226.1	4226.1	4226.1	4226.1	4226.1
2.5°	4229.4	4144.6	3973.5	3808.9	3669.5	3535.1	3381.9	3230.3	3159.4	3130.9	3101.5
5°	4236.7	4062.3	3709.5	3354.2	2985.8	2654.2	2371.4	2081.3	1936.2	1872.7	1843.3
7.5°	4246.5	3980.8	3410.4	2813.9	2220.6	1770.8	1378.0	1125.4	1016.2	999.1	956.7
10°	4248.1	3882.2	3063.2	2217.4	1488.8	1067.5	821.4	691.0	643.0	634.8	621.0
12.5°	4251.4	3765.7	2677.8	1642.0	992.6	713.9	594.1	550.9	537.8	537.0	537.0
15°	4261.2	3643.5	2277.7	1183.2	713.0	565.5	521.5	504.4	499.5	502.0	501.2
17.5°	4261.2	3499.2	1884.9	881.7	576.1	508.5	484.1	472.6	471.0	473.5	474.3
20°	4230.2	3324.0	1524.7	686.2	510.9	471.8	449.8	439.2	435.2	436.8	437.6
22.5°	4156.0	3108.9	1231.3	568.0	467.8	438.4	414.8	398.5	392.0	392.8	392.8
25°	4040.3	2853.8	963.2	491.4	432.7	402.6	374.9	356.1	352.0	351.2	352.9
27.5°	3892.0	2571.9	766.8	432.7	391.2	362.6	334.9	319.4	316.2	317.0	317.8
30°	3746.1	2279.3	604.7	383.0	344.7	317.8	296.6	289.3	289.3	291.7	292.6
32.5°	3612.5	1998.2	478.4	339.8	303.1	278.7	266.5	265.7	269.7	271.4	272.2
35°	3497.6	1738.2	396.0	306.4	270.6	249.4	245.3	248.5	253.4	256.7	257.5
37.5°	3416.1	1506.0	346.3	278.7	245.3	228.2	227.4	233.9	240.4	247.7	249.4
40°	3381.9	1309.6	312.1	254.3	224.9	211.9	209.4	218.4	230.6	241.2	242.8
42.5°	3353.4	1149.0	282.8	230.6	208.6	189.9	189.1	200.5	215.1	225.7	228.2
45°	3328.9	1020.3	255.9	205.4	187.4	163.0	165.4	180.1	191.5	202.9	205.4
47.5°	3278.4	914.3	226.5	178.5	154.8	139.3	144.2	157.3	166.2	183.4	185.8
50°	3187.9	827.9	196.4	145.9	126.3	120.6	127.9	136.9	148.3	163.0	164.6
52.5°	3126.8	762.8	170.3	122.2	104.3	105.9	113.3	116.5	123.1	128.8	127.1
55°	3091.8	726.9	149.1	105.9	88.8	93.7	95.3	91.3	88.0	82.3	79.9
57.5°	3087.7	694.3	132.8	92.1	78.2	80.7	75.0	61.1	49.7	43.2	41.6
60°	3081.2	654.4	119.8	77.4	69.3	66.0	53.8	33.4	23.6	22.0	22.0
62.5°	3010.3	592.4	110.0	65.2	58.7	49.7	31.0	15.5	13.0	13.9	13.9
65°	2784.5	506.1	100.2	53.0	46.4	35.9	15.5	9.0	4.9	5.7	5.7
67.5°	2367.3	403.4	89.6	40.7	35.0	22.8	9.0	4.1	0.0	0.0	0.0
70°	1585.0	250.2	75.8	28.5	22.8	13.9	6.5	0.8	0.0	0.0	0.0
72.5°	607.9	135.3	61.1	17.1	14.7	9.8	4.1	0.0	0.0	0.0	0.0
75°	136.9	88.8	42.4	12.2	10.6	6.5	1.6	0.0	0.0	0.0	0.0
77.5°	52.2	64.4	24.4	8.1	7.3	4.1	0.0	0.0	0.0	0.0	0.0
80°	25.3	38.3	11.4	4.9	4.1	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	13.0	14.7	4.9	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	7.3	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.4	0.8	0.8	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)