

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: P321237

Luminaire Tested: **GAN-SA3B-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321237
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-SA3B-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA 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: 12825 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 124
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

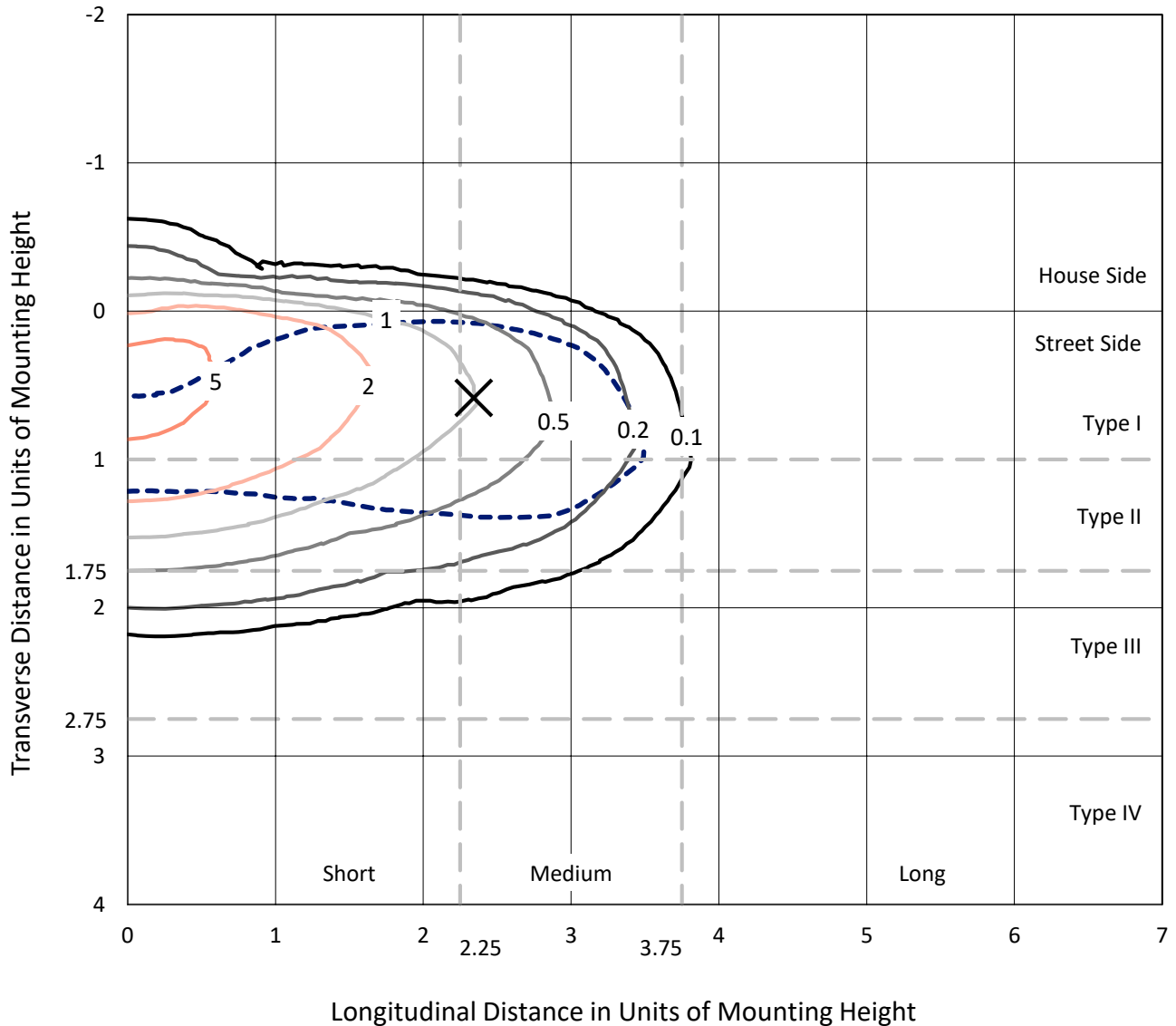




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Iso-Footcandle Lines of Horizontal Illumination

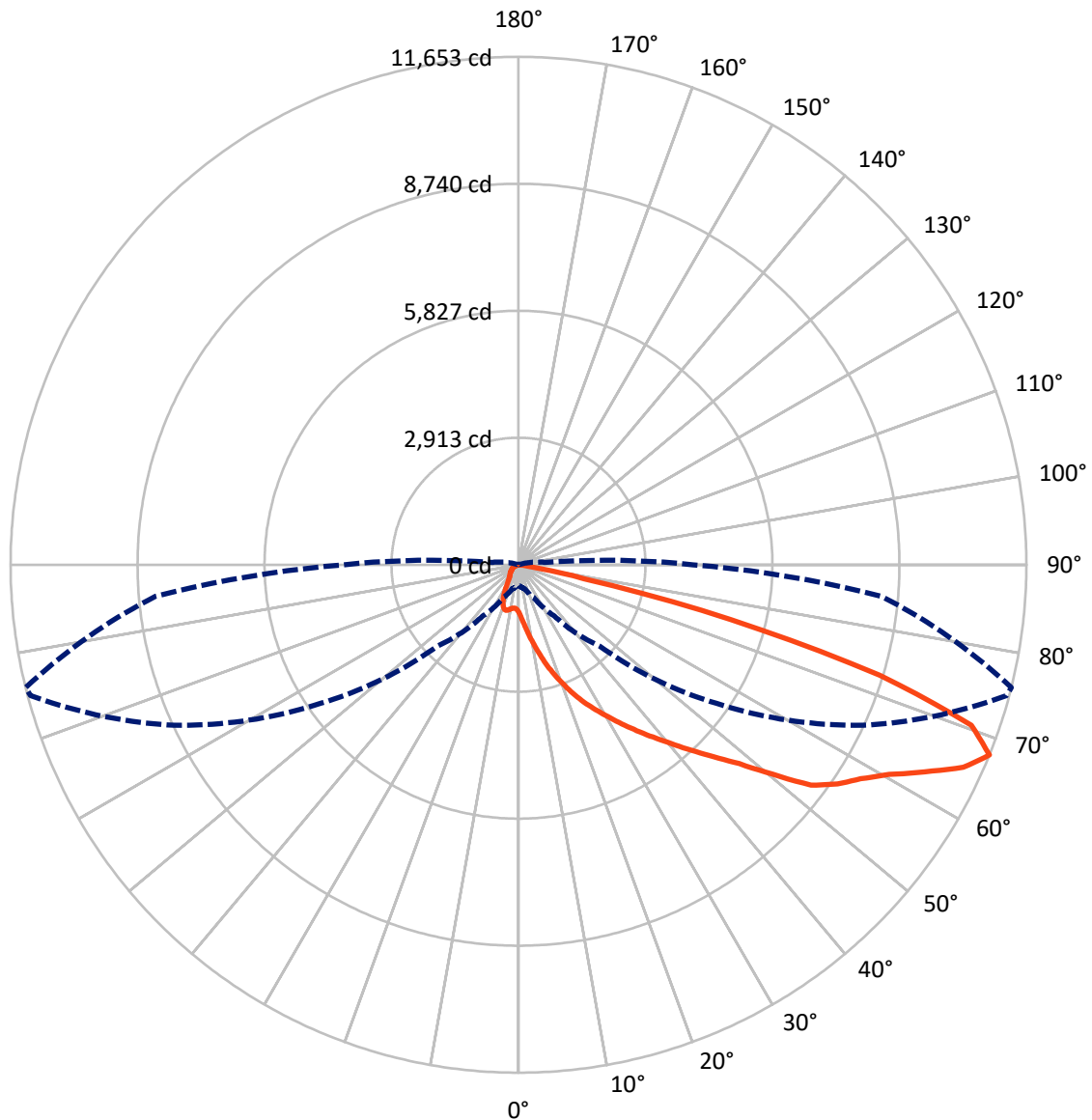
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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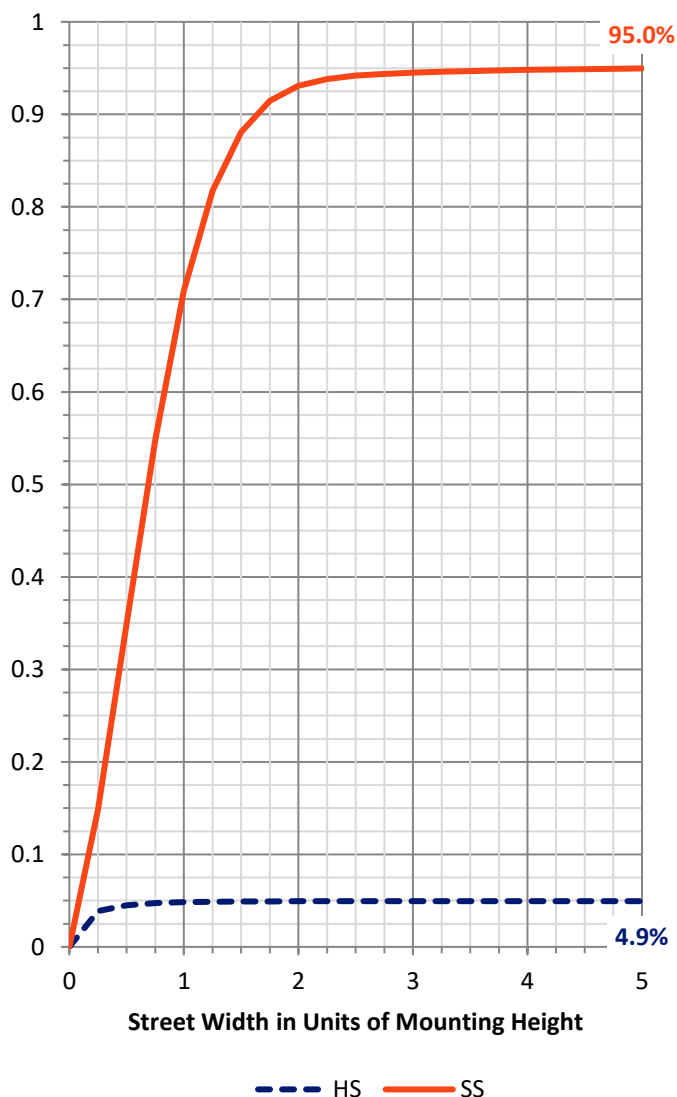
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	636.9	0.0	636.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	12188.1	0.0	12188.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	12825.0	0.0	12825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	1.1
10°-20°	536.3	4.2
20°-30°	1091.2	8.5
30°-40°	1893.9	14.8
40°-50°	2675.8	20.9
50°-60°	3034.5	23.7
60°-70°	2516.8	19.6
70°-80°	911.7	7.1
80°-90°	29.6	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°	12825.0	100.0
0°-180°	12825.0	100.0

Coefficient of Utilization

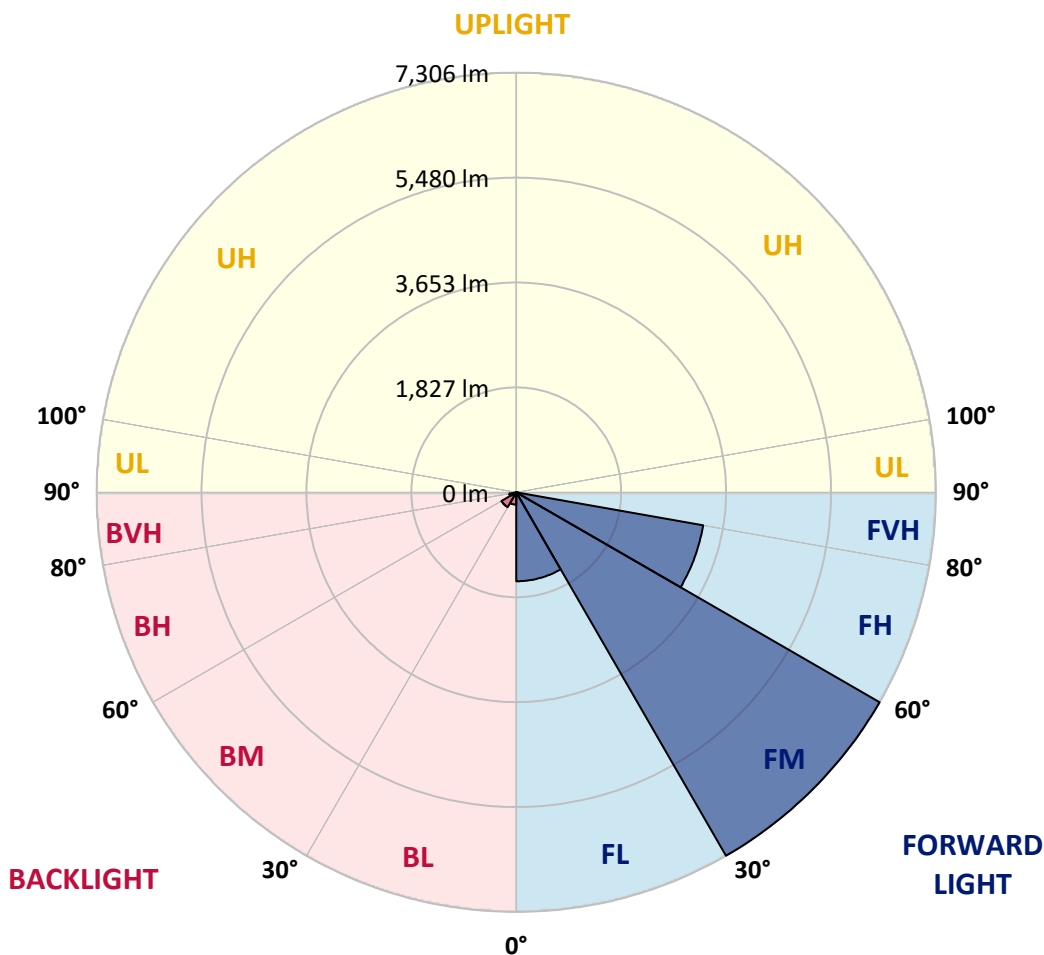


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1547.9	12.1			
FM (30°-60°)	7306.1	57.0			
FH (60°-80°)	3305.4	25.8			G2/5000
FVH (80°-90°)	28.6	0.2			G1/100
BL (0°-30°)	214.8	1.7	B1/500		
BM (30°-60°)	298.1	2.3	B1/1000		
BH (60°-80°)	123.1	1.0	B1/500		G1/500
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9
2.5°	1624.0	1587.5	1595.9	1572.3	1529.6	1442.0	1367.2	1296.4	1213.8	1211.0	1143.0
5°	2189.9	2159.0	2155.1	2107.3	2029.8	1880.8	1735.9	1570.6	1386.3	1372.8	1228.4
7.5°	2703.5	2678.8	2669.8	2613.1	2468.6	2323.7	2134.8	1892.1	1603.8	1579.1	1343.6
10°	3098.0	3086.2	3088.5	3048.0	2924.4	2789.5	2541.7	2232.1	1850.5	1812.3	1481.9
12.5°	3397.0	3399.8	3420.0	3395.3	3326.2	3226.1	2961.5	2594.5	2123.6	2071.3	1639.8
15°	3616.7	3630.7	3667.8	3698.7	3693.7	3607.1	3364.4	2962.6	2413.6	2355.7	1815.7
17.5°	3758.9	3774.6	3828.6	3897.1	3960.0	3939.8	3753.3	3317.7	2706.9	2640.0	2003.9
20°	3883.6	3902.2	3960.0	4050.5	4168.0	4193.3	4070.8	3662.2	2999.7	2918.2	2198.3
22.5°	4153.9	4153.4	4188.8	4241.6	4353.4	4418.6	4341.0	3982.0	3289.1	3204.2	2396.7
25°	4642.8	4624.3	4611.9	4570.3	4595.0	4635.5	4592.2	4280.9	3580.2	3494.2	2597.9
27.5°	5223.9	5235.1	5135.1	5023.3	4936.7	4895.1	4824.3	4558.0	3860.0	3765.6	2794.6
30°	5837.0	5840.3	5722.3	5579.6	5389.1	5231.2	5108.7	4822.6	4147.7	4044.9	2985.6
32.5°	6389.9	6368.0	6251.1	6056.7	5816.2	5638.6	5384.0	5118.2	4452.3	4352.8	3198.0
35°	6828.2	6802.4	6660.2	6483.2	6233.7	6055.0	5748.7	5413.2	4772.6	4675.4	3411.0
37.5°	7148.5	7118.2	6972.1	6790.0	6574.8	6470.8	6171.9	5734.1	5122.2	5017.6	3635.2
40°	7259.8	7233.4	7141.8	7008.6	6835.5	6811.9	6620.9	6103.3	5502.6	5391.3	3889.2
42.5°	7193.5	7167.6	7135.1	7090.1	7018.2	7040.6	7044.6	6524.2	5925.2	5815.6	4169.7
45°	6930.5	6907.5	6941.2	7006.9	7096.3	7207.5	7431.2	6976.6	6397.2	6280.3	4493.9
47.5°	6543.3	6526.5	6619.7	6783.8	7045.1	7352.0	7784.7	7452.0	6927.1	6818.7	4898.5
50°	5992.6	5989.8	6176.4	6475.9	6877.7	7421.6	8149.9	7992.6	7663.3	7549.2	5461.0
52.5°	5135.1	5140.7	5507.7	5987.0	6583.8	7374.4	8384.8	8687.2	8519.7	8401.1	5948.2
55°	4318.6	4352.3	4612.5	5303.7	6133.1	7199.1	8465.7	9011.4	8992.3	8879.9	6219.1
57.5°	3518.9	3580.2	3830.8	4476.5	5475.1	6795.1	8421.4	9151.9	9344.1	9258.1	6576.5
60°	2652.4	2680.5	2969.3	3572.9	4630.5	6057.8	8099.4	9228.3	9825.1	9765.5	7095.2
62.5°	1687.5	1757.8	2014.0	2596.2	3605.5	5033.9	7556.5	9227.2	10426.9	10459.5	7764.4
65°	889.0	971.0	1107.0	1608.9	2477.6	3890.4	6740.0	9140.6	11165.3	11210.9	8287.6
67.5°	479.3	502.9	574.9	835.1	1436.9	2635.5	5540.2	8713.6	11593.0	11653.1	8360.7
70°	350.7	363.6	390.6	461.9	723.2	1530.7	4042.7	7745.3	11041.7	11019.2	7428.4
72.5°	269.2	289.4	309.6	338.3	415.8	817.1	2517.0	6065.1	8810.2	8661.9	5552.6
75°	212.4	215.8	244.4	270.3	311.9	465.3	1117.7	3532.4	5377.3	5026.1	2879.4
77.5°	169.7	172.0	188.8	211.3	250.6	305.7	346.2	1389.7	1716.8	1531.9	624.9
80°	100.6	106.2	140.5	163.0	207.9	192.7	126.4	301.8	268.0	242.8	105.1
82.5°	56.2	60.7	79.2	128.7	145.0	92.2	62.9	81.5	62.9	61.3	29.8
85°	0.0	2.8	51.1	79.8	59.0	20.2	26.4	27.0	18.5	17.4	11.8
87.5°	0.0	0.0	15.7	15.2	2.2	3.4	6.2	9.0	7.3	7.3	6.2
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°	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9	1087.9
2.5°	1109.3	1078.9	1021.6	965.4	918.2	879.4	844.6	830.6	819.3	817.6	808.6
5°	1158.7	1097.5	987.9	898.0	837.9	795.2	758.6	736.2	718.7	712.0	705.8
7.5°	1233.5	1140.8	983.4	880.0	808.1	736.2	668.7	595.7	550.1	532.7	522.6
10°	1324.5	1198.1	1000.3	875.0	749.1	597.4	485.5	392.8	355.2	342.8	339.4
12.5°	1430.7	1269.4	1029.5	843.5	623.2	424.3	334.9	303.5	295.0	291.1	291.1
15°	1552.7	1347.6	1050.3	752.4	460.8	320.9	290.0	275.4	266.4	261.3	261.9
17.5°	1677.4	1424.0	1040.2	620.4	340.0	285.5	262.4	246.7	234.3	229.3	228.2
20°	1803.3	1494.8	984.0	461.9	287.7	259.1	233.2	215.8	203.4	198.4	197.2
22.5°	1933.7	1554.9	885.1	338.9	258.5	229.8	204.5	187.1	175.3	170.8	168.6
25°	2060.7	1603.8	746.8	274.2	231.0	202.3	178.1	161.8	151.2	146.7	146.1
27.5°	2179.2	1634.7	586.7	242.2	206.8	177.6	155.7	141.0	132.1	128.7	128.1
30°	2286.0	1637.5	433.8	218.6	185.4	156.2	136.0	123.1	115.2	111.8	110.7
32.5°	2393.9	1613.9	315.8	197.2	165.8	137.7	118.0	107.9	102.3	99.5	99.5
35°	2495.6	1559.4	246.1	178.7	146.7	119.7	104.0	96.7	93.3	90.5	90.5
37.5°	2595.1	1481.3	209.0	162.4	128.7	104.5	91.6	87.1	84.3	81.5	81.5
40°	2696.2	1383.0	189.9	147.2	114.1	92.7	81.5	77.5	74.7	72.5	71.9
42.5°	2820.4	1269.4	177.6	133.2	101.2	82.0	71.9	67.4	65.2	62.9	61.8
45°	2964.3	1171.7	167.5	119.1	90.5	73.1	62.4	57.9	54.5	51.7	51.1
47.5°	3171.6	1100.9	154.0	104.0	80.4	63.5	53.9	48.9	43.8	41.0	40.5
50°	3436.3	1042.4	136.6	90.5	70.2	53.9	45.0	38.8	34.3	31.5	31.5
52.5°	3567.8	966.0	120.8	78.7	59.0	45.5	36.5	29.2	27.0	24.2	24.2
55°	3620.6	907.5	105.1	66.9	48.9	37.7	28.7	22.5	20.8	19.1	18.5
57.5°	3769.0	890.7	91.6	56.8	40.5	29.8	21.9	16.9	15.7	13.5	13.5
60°	4007.8	899.1	79.2	48.3	32.6	23.0	16.3	12.9	11.8	9.6	9.6
62.5°	4265.7	888.4	66.9	41.6	25.3	16.9	11.2	9.6	9.6	5.6	5.1
65°	4315.2	791.2	57.3	34.3	19.7	12.4	7.3	6.2	8.4	1.1	0.0
67.5°	4005.0	613.6	49.5	26.4	14.6	9.6	5.6	2.8	7.3	0.0	0.0
70°	3202.5	390.0	39.9	19.1	11.2	7.9	4.5	1.1	5.6	0.0	0.0
72.5°	2264.7	226.5	31.5	13.5	9.6	6.2	3.4	0.0	3.4	0.0	0.0
75°	1145.3	120.8	19.7	10.1	7.3	4.5	2.2	0.0	0.6	0.0	0.0
77.5°	247.8	56.2	12.4	7.3	5.1	2.8	1.1	0.0	0.0	0.0	0.0
80°	53.9	24.7	7.9	4.5	2.8	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	19.7	12.9	3.9	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.7	6.7	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	2.2	0.6	0.6	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)