

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: P321867

Luminaire Tested: **GAN-SA3A-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9216 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

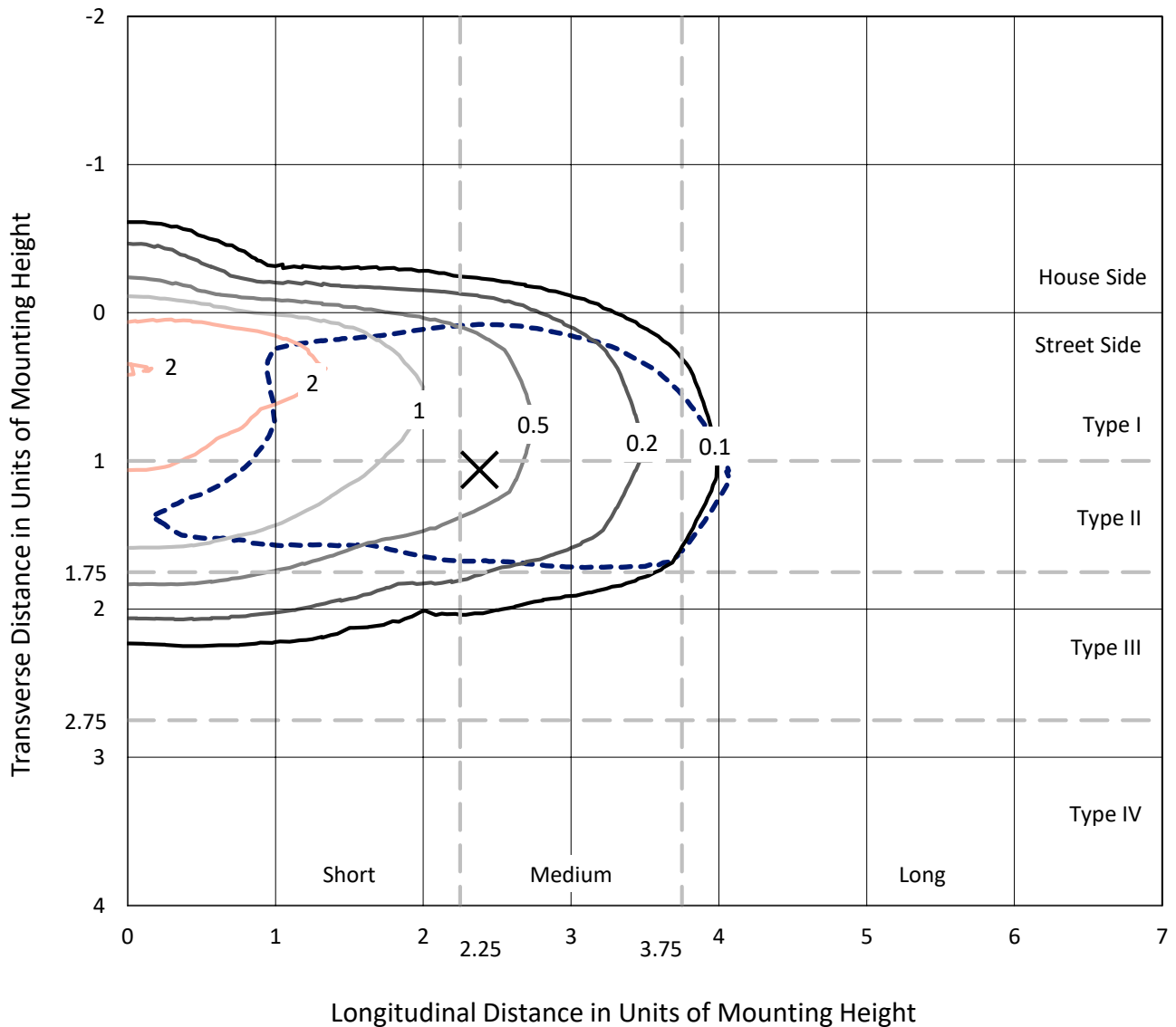
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

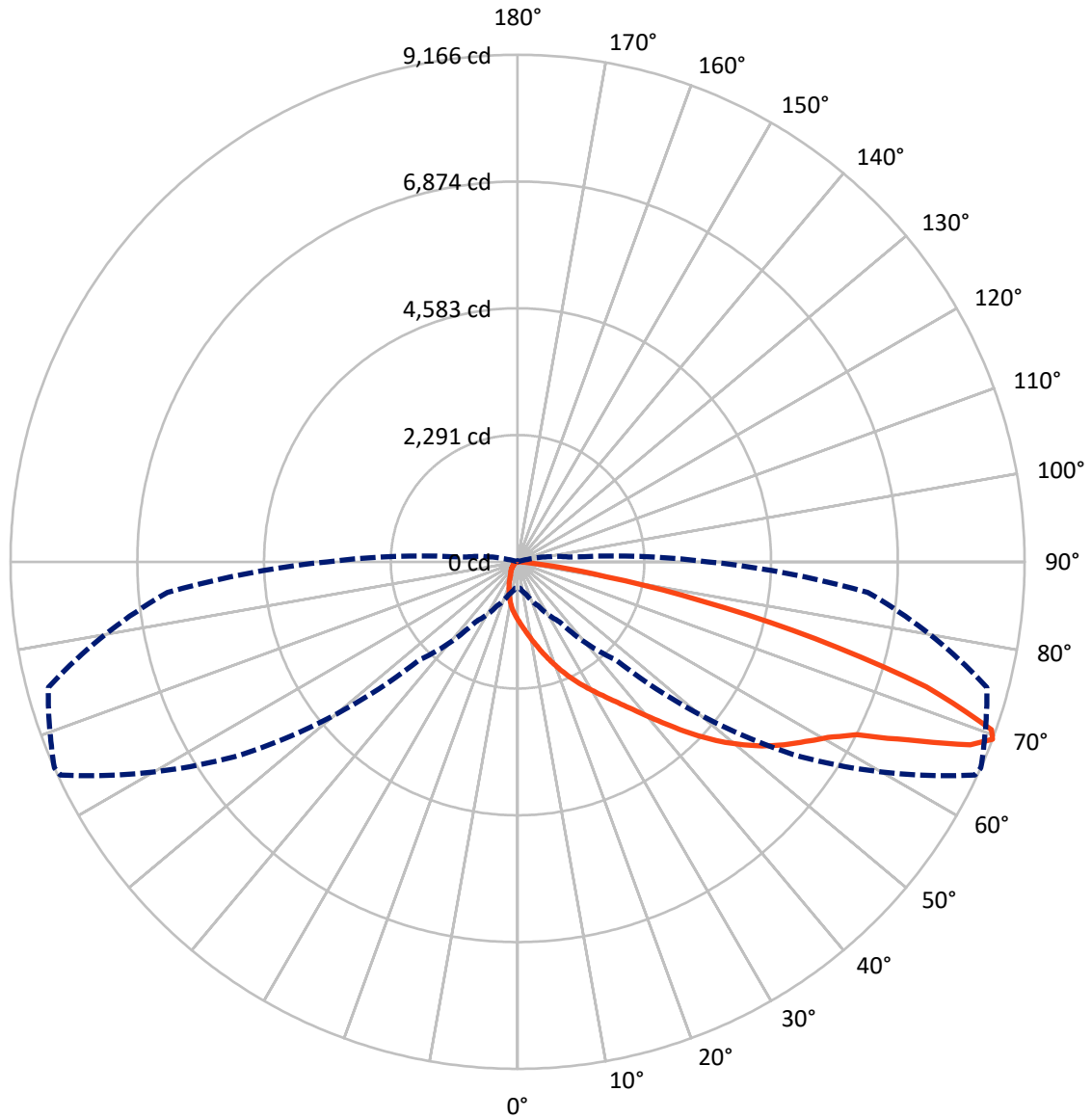
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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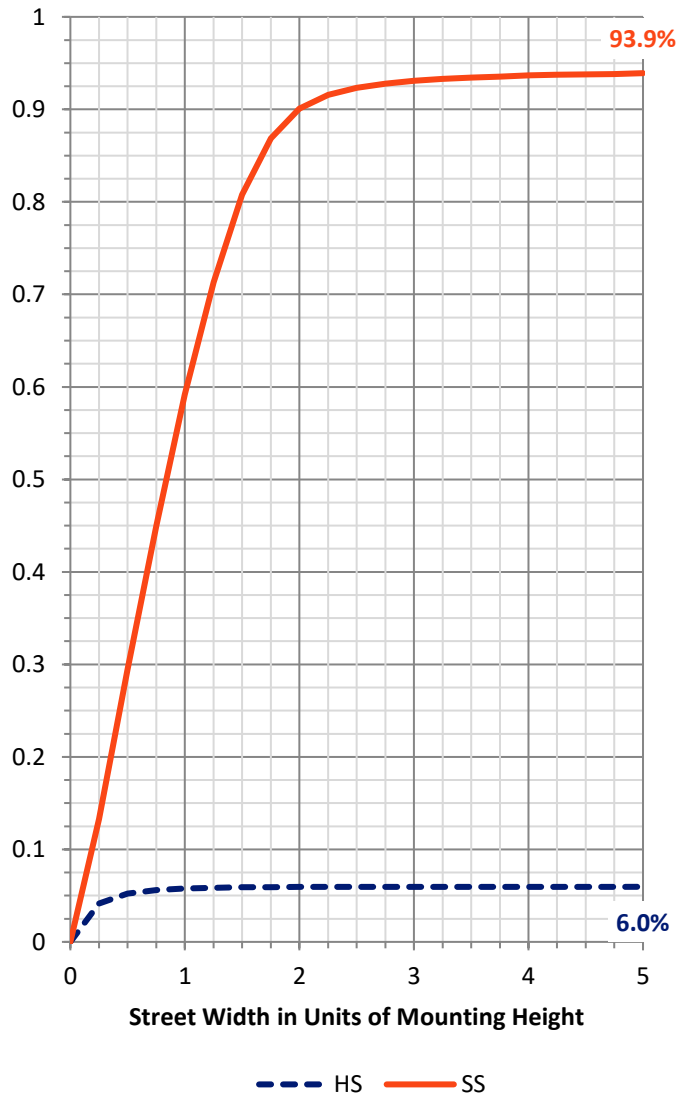
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	552.8	0.0	552.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	8663.2	0.0	8663.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	9216.0	0.0	9216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	1.1
10°-20°	301.7	3.3
20°-30°	525.4	5.7
30°-40°	921.9	10.0
40°-50°	1543.0	16.7
50°-60°	2268.1	24.6
60°-70°	2328.8	25.3
70°-80°	1149.7	12.5
80°-90°	76.0	0.8
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°	9216.0	100.0
0°-180°	9216.0	100.0

Coefficient of Utilization

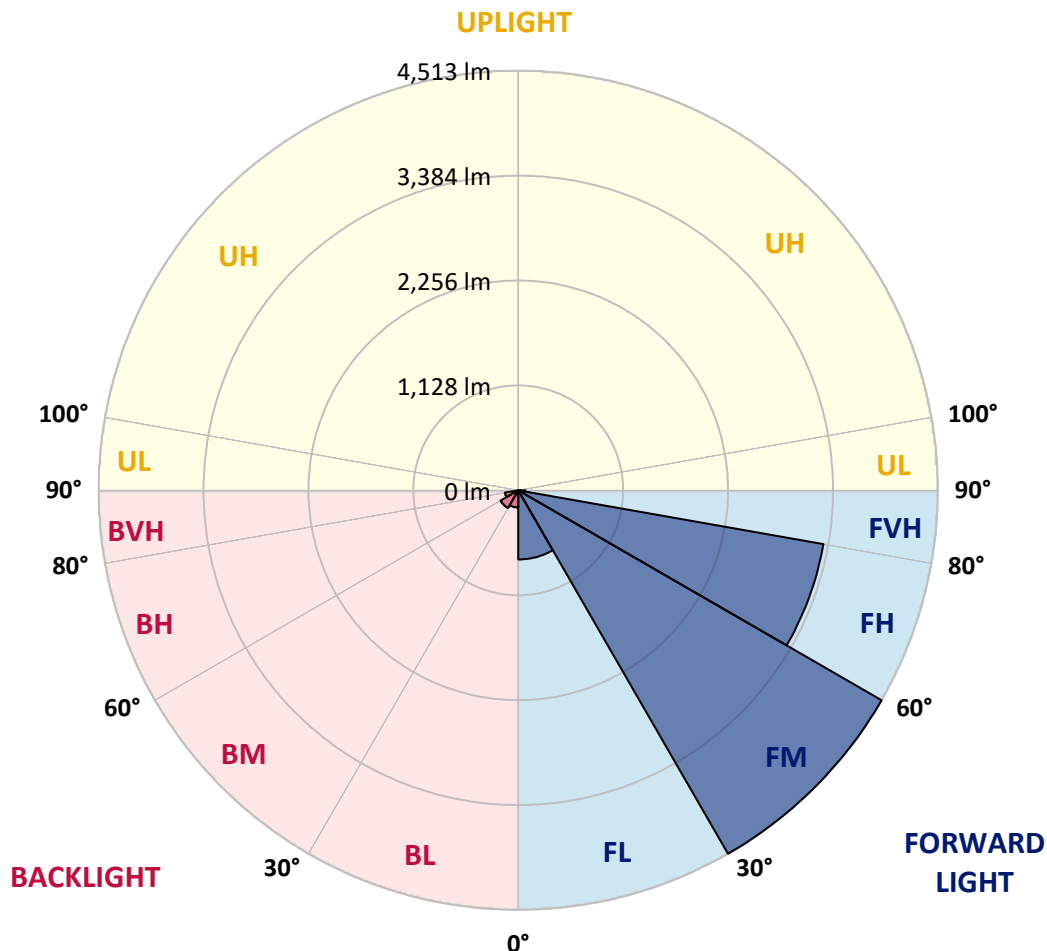


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	743.6	8.1			
FM (30°-60°)	4512.6	49.0			
FH (60°-80°)	3332.8	36.2			G2/5000
FVH (80°-90°)	74.2	0.8			G1/100
BL (0°-30°)	184.9	2.0	B1/500		
BM (30°-60°)	220.4	2.4	B1/1000		
BH (60°-80°)	145.7	1.6	B1/500		G1/500
BVH (80°-90°)	1.8	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°	66°	75°	85°
0°	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8
2.5°	1234.4	1229.2	1227.0	1217.3	1200.7	1188.0	1163.5	1135.0	1129.8	1102.2	1068.5
5°	1394.6	1390.2	1387.2	1373.6	1356.5	1324.6	1279.9	1227.0	1216.9	1164.4	1097.0
7.5°	1506.2	1514.1	1514.1	1505.4	1483.9	1459.8	1405.1	1332.9	1320.2	1239.7	1135.0
10°	1571.5	1581.1	1588.5	1596.0	1592.9	1583.3	1531.6	1450.2	1434.9	1328.1	1179.3
12.5°	1577.6	1587.2	1608.2	1639.3	1669.5	1691.4	1659.0	1580.2	1562.7	1430.5	1231.8
15°	1543.4	1553.5	1585.9	1646.3	1719.4	1783.3	1793.8	1724.2	1706.3	1552.6	1297.4
17.5°	1483.9	1490.5	1536.9	1620.5	1735.2	1852.5	1916.0	1878.8	1862.1	1692.3	1370.5
20°	1439.7	1444.5	1485.2	1575.0	1725.5	1895.8	2031.5	2042.9	2025.4	1842.0	1449.8
22.5°	1515.4	1524.2	1525.5	1568.0	1699.3	1917.3	2133.1	2204.4	2191.3	2000.9	1527.7
25°	1722.5	1732.6	1699.3	1673.0	1721.6	1926.9	2220.2	2369.9	2359.4	2172.0	1606.0
27.5°	1996.1	2006.6	1963.7	1885.3	1838.5	1963.2	2297.7	2538.0	2537.5	2353.3	1690.5
30°	2264.8	2275.3	2231.6	2153.2	2045.5	2066.1	2364.6	2714.0	2716.6	2540.2	1780.3
32.5°	2546.7	2559.9	2514.8	2414.1	2301.6	2243.8	2458.8	2890.8	2905.7	2756.8	1881.4
35°	2867.2	2868.9	2805.4	2699.9	2570.4	2481.5	2609.8	3089.1	3124.5	3025.2	2009.6
37.5°	3181.4	3194.1	3142.1	2975.7	2856.7	2756.0	2834.3	3336.8	3387.2	3353.0	2177.3
40°	3414.3	3441.0	3433.6	3254.1	3141.2	3069.4	3113.2	3631.4	3695.3	3734.7	2388.7
42.5°	3560.5	3580.7	3614.8	3506.7	3404.3	3416.1	3442.3	3974.6	4053.4	4169.9	2631.7
45°	3728.2	3737.8	3766.3	3718.5	3649.4	3768.5	3791.7	4361.1	4443.9	4637.8	2901.3
47.5°	3933.0	3955.8	3963.7	3919.9	3888.4	4080.1	4128.3	4712.6	4828.6	5139.0	3186.7
50°	4193.9	4200.1	4213.6	4185.2	4153.7	4348.0	4430.3	5081.7	5187.1	5642.0	3468.2
52.5°	4449.1	4471.0	4518.3	4500.3	4487.6	4576.1	4699.5	5414.3	5532.1	6061.3	3749.2
55°	4522.7	4541.5	4704.8	4816.4	4919.7	4857.1	4956.9	5712.4	5839.8	6436.0	4019.7
57.5°	4228.9	4267.0	4549.8	4840.5	5269.0	5294.0	5310.6	6018.4	6132.7	6723.2	4301.2
60°	3486.6	3494.0	3958.0	4456.6	5211.2	5675.2	5827.1	6347.1	6443.0	6990.6	4638.2
62.5°	2217.6	2293.3	2802.4	3506.2	4600.1	5620.1	6451.8	6844.4	6879.4	7311.5	5121.5
65°	1056.3	1105.3	1472.1	2166.3	3332.0	4914.0	6882.9	7744.0	7759.7	7947.5	5767.1
67.5°	584.8	608.5	783.1	1166.1	1947.9	3475.2	6708.7	8809.4	8824.3	8597.1	6333.6
69°	457.4	477.6	615.0	879.0	1320.6	2497.7	6070.9	9121.5	9165.7	8783.1	6353.7
70°	388.3	408.0	529.7	742.4	1061.9	1930.0	5403.8	9044.0	9090.9	8765.6	6203.6
72.5°	237.7	249.1	352.8	522.7	711.8	970.9	3332.5	7648.5	7727.8	8040.7	5331.6
75°	160.2	166.3	220.6	360.7	509.1	499.9	1731.2	5391.1	5562.7	6254.8	3937.9
77.5°	114.7	120.4	148.0	233.3	356.8	330.1	784.0	3350.4	3387.2	3751.4	2147.5
80°	65.2	70.5	104.6	138.8	242.1	220.2	311.7	1600.4	1618.7	1608.7	717.0
82.5°	34.1	38.5	57.3	91.5	155.4	144.0	129.6	535.8	538.4	447.8	157.1
85°	6.6	7.9	28.5	62.6	80.1	62.6	53.0	125.6	128.3	113.4	39.0
87.5°	0.0	0.4	11.4	14.0	15.8	16.2	17.1	24.5	26.3	35.5	10.5
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°	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8	1048.8
2.5°	1053.6	1037.9	1007.7	972.6	945.5	918.8	897.8	875.9	868.0	864.1	863.6
5°	1064.1	1030.9	967.0	901.3	847.5	796.7	760.3	725.8	709.6	702.1	699.1
7.5°	1081.6	1028.2	925.4	825.1	747.6	684.2	633.8	596.2	577.4	569.5	566.4
10°	1102.2	1024.7	876.8	744.6	645.7	580.0	530.1	492.9	472.3	463.6	459.2
12.5°	1126.3	1018.6	820.8	663.2	558.5	492.9	432.5	386.5	362.9	352.8	348.0
15°	1156.1	1012.5	762.1	586.6	481.9	401.8	335.7	304.7	299.8	298.1	298.5
17.5°	1185.4	1002.8	698.2	510.8	401.4	313.9	280.1	278.4	279.3	279.3	279.3
20°	1211.6	981.0	628.6	446.1	324.8	264.8	257.8	254.8	252.6	250.8	248.6
22.5°	1232.2	951.6	561.6	381.7	265.3	242.5	231.6	221.9	214.1	208.8	206.2
25°	1246.2	912.7	500.3	320.0	238.6	220.6	200.9	184.7	172.5	165.0	162.0
27.5°	1256.7	870.7	445.6	267.9	220.2	195.2	169.4	150.1	137.4	130.9	128.3
30°	1264.2	822.9	397.5	235.5	199.6	168.5	141.0	122.1	112.9	109.4	107.7
32.5°	1271.2	770.0	351.9	220.2	180.3	144.0	118.2	103.7	98.1	93.7	92.4
35°	1288.7	720.9	308.6	204.0	160.6	123.0	101.6	91.0	85.4	82.7	81.9
37.5°	1330.3	684.6	267.0	187.4	141.0	106.4	88.9	81.4	76.2	73.5	72.7
40°	1397.2	666.2	232.0	169.4	121.7	93.7	80.5	73.5	67.8	63.9	63.0
42.5°	1495.7	668.9	207.5	151.5	106.4	83.6	72.7	64.3	58.2	54.7	53.8
45°	1615.2	688.1	190.4	133.9	93.7	75.7	63.9	55.2	49.5	46.4	45.5
47.5°	1744.8	719.2	176.4	118.2	83.6	68.3	55.2	46.0	41.1	38.5	38.1
50°	1881.4	749.4	162.0	102.9	74.9	60.8	46.4	38.1	34.1	32.0	31.1
52.5°	2019.7	784.4	148.8	88.9	67.4	52.1	38.5	31.1	28.0	26.3	25.4
55°	2168.5	810.7	136.1	77.9	60.0	44.2	32.0	25.8	23.2	21.0	20.6
57.5°	2343.6	851.4	123.0	67.4	51.2	36.8	26.3	20.6	18.4	16.2	15.8
60°	2580.0	899.1	109.0	59.5	42.0	30.2	21.4	16.6	14.0	12.3	11.8
62.5°	2891.7	952.1	91.5	52.1	34.1	24.5	17.1	13.1	10.1	7.9	7.9
65°	3286.9	1038.3	74.9	43.8	28.0	20.1	13.1	9.6	5.7	3.5	3.5
67.5°	3517.6	1053.2	60.4	35.9	22.8	17.1	10.9	6.6	1.8	0.4	0.0
69°	3443.7	967.0	51.2	30.6	19.7	16.2	10.1	4.8	0.9	0.0	0.0
70°	3304.5	884.2	45.1	27.1	17.9	15.3	9.6	3.5	0.9	0.0	0.0
72.5°	2730.6	629.5	34.1	20.1	13.1	13.6	8.8	2.2	0.9	0.0	0.0
75°	1989.1	382.6	24.5	14.0	8.3	10.1	6.1	0.9	0.4	0.0	0.0
77.5°	1106.6	180.3	15.3	7.9	5.3	6.1	3.1	0.0	0.0	0.0	0.0
80°	359.4	49.0	7.0	4.4	3.1	3.5	1.3	0.0	0.0	0.0	0.0
82.5°	66.5	14.0	3.9	2.2	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	14.4	5.7	2.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	1.8	0.4	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)