

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: P382922

Luminaire Tested: **GAN-SA2D-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382922
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-SA2D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA 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: 10520 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

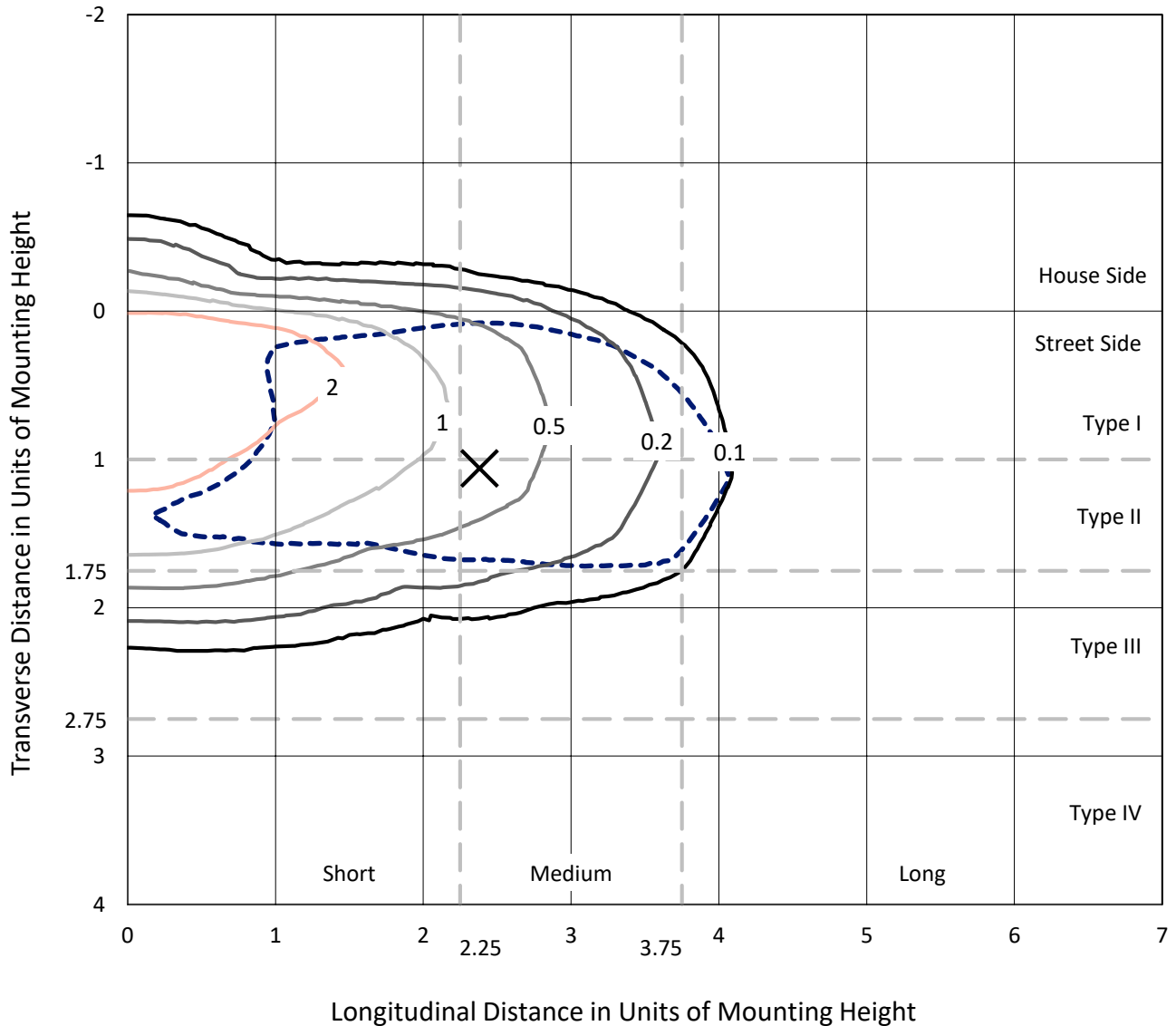
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

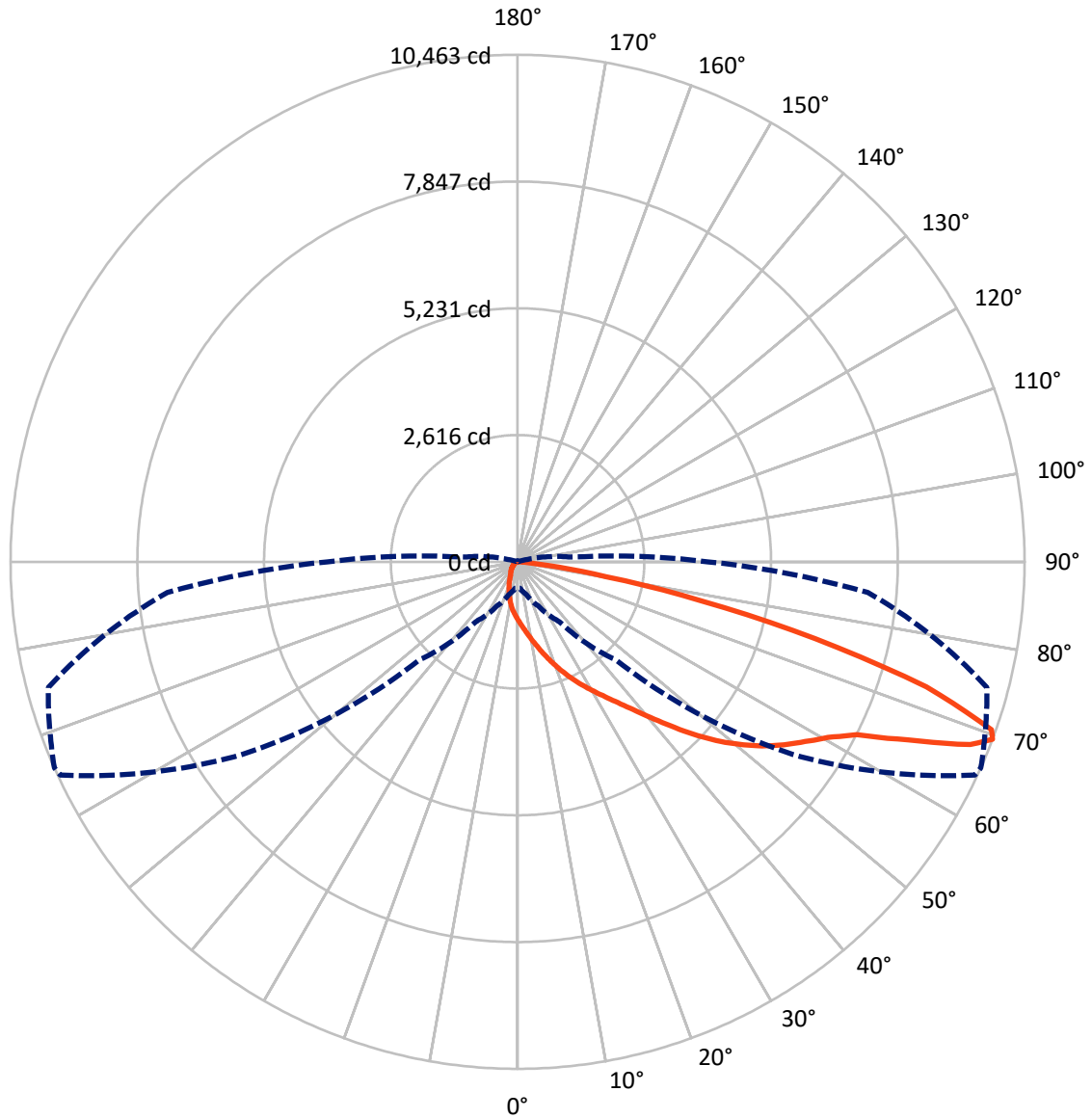
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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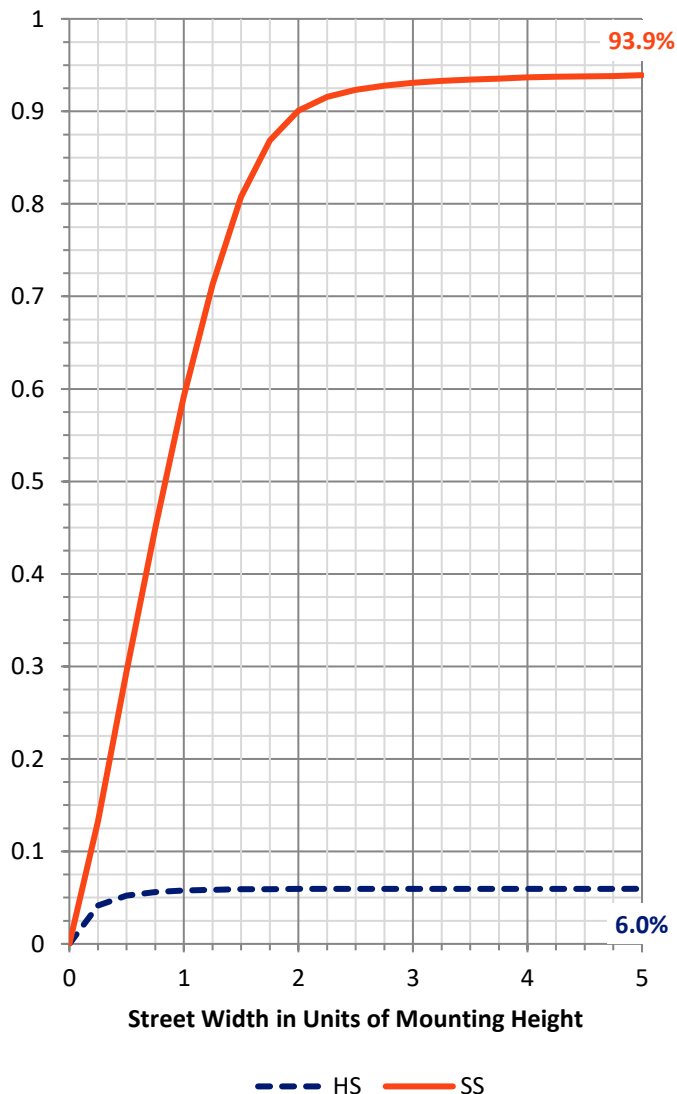
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	631.0	0.0	631.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	9888.9	0.0	9888.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	10520.0	0.0	10520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	1.1
10°-20°	344.4	3.3
20°-30°	599.8	5.7
30°-40°	1052.3	10.0
40°-50°	1761.4	16.7
50°-60°	2589.0	24.6
60°-70°	2658.3	25.3
70°-80°	1312.3	12.5
80°-90°	86.8	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°	10520.0	100.0
0°-180°	10520.0	100.0

Coefficient of Utilization



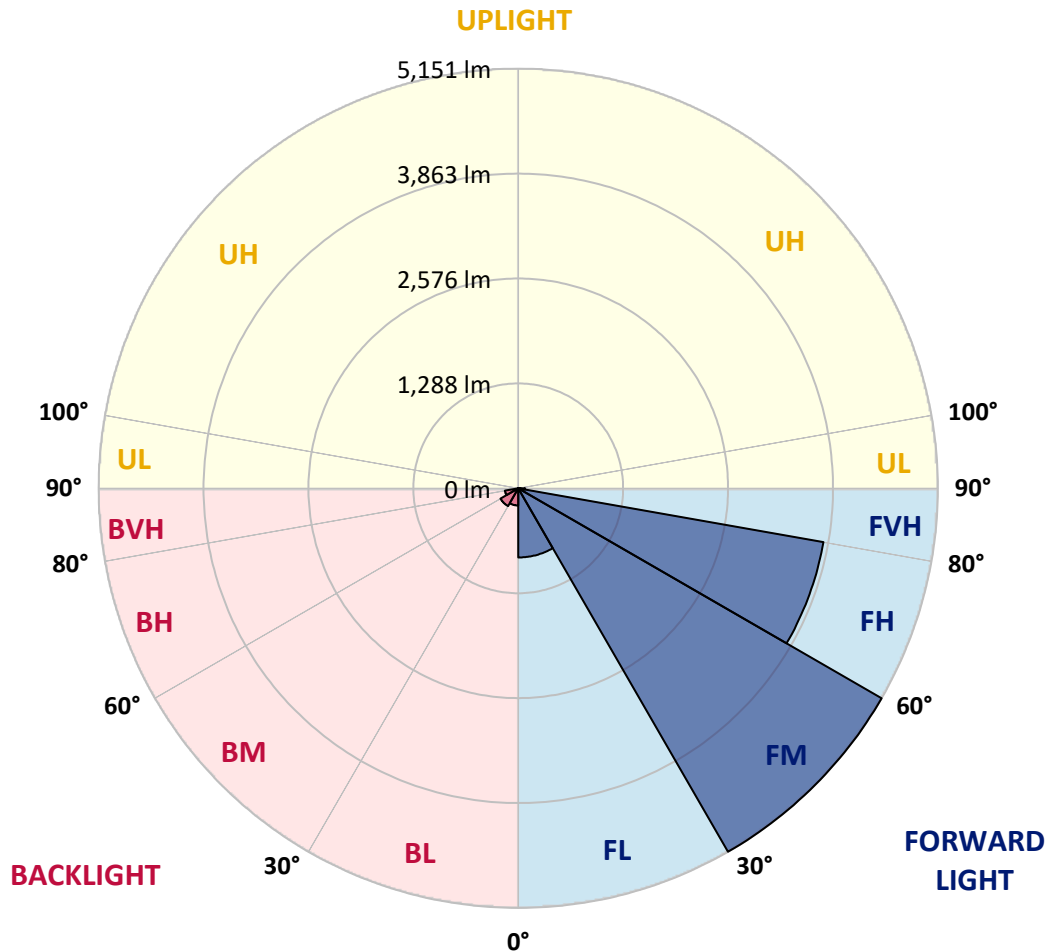
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	848.9	8.1			
FM (30°-60°)	5151.1	49.0			
FH (60°-80°)	3804.3	36.2			G2/5000
FVH (80°-90°)	84.7	0.8			G1/100
BL (0°-30°)	211.1	2.0	B1/500		
BM (30°-60°)	251.6	2.4	B1/1000		
BH (60°-80°)	166.3	1.6	B1/500		G1/500
BVH (80°-90°)	2.1	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°	1197.2	1197.2	1197.2	1197.2	1197.2	1197.2	1197.2	1197.2	1197.2	1197.2	1197.2
2.5°	1409.1	1403.1	1400.6	1389.6	1370.6	1356.1	1328.1	1295.6	1289.6	1258.1	1219.7
5°	1591.9	1587.0	1583.4	1568.0	1548.5	1512.0	1461.0	1400.6	1389.1	1329.1	1252.2
7.5°	1719.4	1728.4	1728.4	1718.3	1693.8	1666.4	1603.9	1521.5	1507.0	1415.0	1295.6
10°	1793.8	1804.8	1813.3	1821.8	1818.3	1807.3	1748.3	1655.4	1637.9	1516.0	1346.1
12.5°	1800.8	1811.8	1835.8	1871.3	1905.8	1930.7	1893.7	1803.8	1783.8	1632.9	1406.1
15°	1761.8	1773.3	1810.3	1879.2	1962.7	2035.6	2047.6	1968.2	1947.7	1772.4	1481.0
17.5°	1693.8	1701.4	1754.3	1849.8	1980.7	2114.6	2187.1	2144.6	2125.6	1931.8	1564.4
20°	1643.4	1648.9	1695.4	1797.8	1969.7	2164.1	2319.0	2331.9	2312.0	2102.6	1654.9
22.5°	1729.9	1739.9	1741.3	1789.8	1939.7	2188.6	2434.9	2516.3	2501.3	2284.0	1743.9
25°	1966.2	1977.7	1939.7	1909.8	1965.2	2199.6	2534.3	2705.2	2693.2	2479.3	1833.3
27.5°	2278.5	2290.5	2241.5	2152.1	2098.6	2241.0	2622.8	2897.1	2896.6	2686.2	1929.7
30°	2585.3	2597.2	2547.3	2457.9	2334.9	2358.4	2699.3	3098.0	3100.9	2899.5	2032.2
32.5°	2907.1	2922.1	2870.6	2755.7	2627.2	2561.3	2806.7	3299.8	3316.8	3147.0	2147.6
35°	3272.8	3274.9	3202.4	3081.9	2934.1	2832.6	2979.0	3526.2	3566.6	3453.2	2293.9
37.5°	3631.5	3646.1	3586.6	3396.7	3260.9	3145.9	3235.4	3809.0	3866.5	3827.4	2485.4
40°	3897.4	3927.9	3919.4	3714.5	3585.6	3503.6	3553.7	4145.3	4218.2	4263.1	2726.7
42.5°	4064.3	4087.3	4126.3	4002.9	3886.0	3899.5	3929.4	4537.0	4626.9	4759.8	3004.0
45°	4255.7	4266.7	4299.2	4244.7	4165.7	4301.6	4328.2	4978.2	5072.6	5294.0	3311.8
47.5°	4489.5	4515.5	4524.5	4474.5	4438.5	4657.4	4712.4	5379.4	5511.9	5866.1	3637.6
50°	4787.3	4794.3	4809.8	4777.3	4741.4	4963.2	5057.2	5800.7	5921.1	6440.3	3958.9
52.5°	5078.6	5103.6	5157.6	5137.1	5122.6	5223.6	5364.4	6180.4	6314.8	6918.9	4279.6
55°	5162.5	5184.1	5370.5	5497.8	5615.7	5544.3	5658.2	6520.6	6666.1	7346.7	4588.4
57.5°	4827.3	4870.8	5193.6	5525.4	6014.5	6042.9	6062.0	6870.0	7000.4	7674.4	4909.7
60°	3979.9	3988.3	4518.0	5087.1	5948.6	6478.2	6651.6	7245.2	7354.7	7979.7	5294.5
62.5°	2531.3	2617.7	3198.8	4002.3	5251.0	6415.3	7364.6	7812.8	7852.8	8345.9	5846.1
65°	1205.7	1261.7	1680.4	2472.9	3803.5	5609.3	7856.8	8839.6	8857.6	9072.0	6583.2
67.5°	667.5	694.6	893.9	1331.1	2223.5	3966.9	7657.9	10055.9	10072.8	9813.5	7229.7
69°	522.1	545.1	702.0	1003.4	1507.5	2851.1	6929.9	10412.1	10462.6	10025.9	7252.7
70°	443.2	465.7	604.6	847.4	1212.2	2203.0	6168.4	10323.7	10377.2	10005.8	7081.3
72.5°	271.4	284.3	402.7	596.6	812.5	1108.3	3804.0	8730.7	8821.1	9178.4	6086.0
75°	182.9	189.8	251.8	411.7	581.1	570.7	1976.2	6153.9	6349.8	7139.8	4495.0
77.5°	130.9	137.4	168.9	266.3	407.3	376.7	894.9	3824.5	3866.5	4282.1	2451.4
80°	74.4	80.5	119.4	158.4	276.3	251.3	355.8	1826.8	1847.8	1836.3	818.5
82.5°	38.9	44.0	65.5	104.4	177.4	164.4	147.9	611.6	614.6	511.1	179.4
85°	7.5	9.0	32.5	71.4	91.5	71.4	60.5	143.4	146.4	129.4	44.4
87.5°	0.0	0.5	12.9	16.0	18.0	18.4	19.5	27.9	30.0	40.4	12.0
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°	1197.2	1197.2	1197.2	1197.2	1197.2	1197.2	1197.2	1197.2	1197.2	1197.2	1197.2
2.5°	1202.7	1184.7	1150.3	1110.2	1079.3	1048.8	1024.8	999.8	990.9	986.3	985.9
5°	1214.7	1176.7	1103.8	1028.8	967.3	909.4	867.9	828.4	810.0	801.5	798.0
7.5°	1234.7	1173.7	1056.3	941.9	853.4	781.0	723.5	680.6	659.1	650.0	646.6
10°	1258.1	1169.7	1000.9	849.9	737.0	662.1	605.1	562.7	539.2	529.1	524.2
12.5°	1285.6	1162.8	936.9	757.0	637.6	562.7	493.6	441.2	414.3	402.7	397.2
15°	1319.6	1155.8	869.9	669.6	550.2	458.7	383.2	347.7	342.3	340.3	340.8
17.5°	1353.1	1144.8	796.9	583.1	458.2	358.3	319.8	317.8	318.8	318.8	318.8
20°	1383.1	1119.7	717.5	509.2	370.8	302.3	294.3	290.8	288.3	286.3	283.8
22.5°	1406.5	1086.3	641.1	435.7	302.8	276.9	264.3	253.3	244.3	238.4	235.3
25°	1422.6	1041.8	571.1	365.3	272.3	251.8	229.3	210.9	196.8	188.4	184.9
27.5°	1434.6	993.9	508.6	305.8	251.3	222.8	193.4	171.4	156.9	149.4	146.4
30°	1443.1	939.4	453.7	268.8	227.9	192.4	160.9	139.5	128.9	124.9	123.0
32.5°	1451.1	878.9	401.8	251.3	205.9	164.4	134.9	118.4	112.0	106.9	105.5
35°	1471.0	822.9	352.3	232.9	183.4	140.4	115.9	104.0	97.4	94.5	93.4
37.5°	1518.5	781.5	304.8	213.9	160.9	121.4	101.4	93.0	86.9	83.9	82.9
40°	1594.9	760.5	264.8	193.4	138.9	106.9	91.9	83.9	77.4	72.9	71.9
42.5°	1707.3	763.5	236.8	172.9	121.4	95.4	82.9	73.4	66.4	62.4	61.5
45°	1843.8	785.5	217.3	152.9	106.9	86.4	72.9	63.0	56.5	53.0	52.0
47.5°	1991.6	821.0	201.4	134.9	95.4	78.0	63.0	52.4	46.9	44.0	43.5
50°	2147.6	855.4	184.9	117.5	85.4	69.5	53.0	43.5	38.9	36.5	35.5
52.5°	2305.5	895.4	169.9	101.4	76.9	59.4	44.0	35.5	32.0	30.0	29.0
55°	2475.4	925.4	155.4	89.0	68.5	50.5	36.5	29.4	26.5	23.9	23.5
57.5°	2675.2	971.9	140.4	76.9	58.5	42.0	30.0	23.5	21.0	18.4	18.0
60°	2945.1	1026.3	124.5	67.9	48.0	34.5	24.5	19.0	16.0	14.0	13.5
62.5°	3300.8	1086.7	104.4	59.4	38.9	27.9	19.5	15.0	11.5	9.0	9.0
65°	3752.0	1185.2	85.4	49.9	32.0	23.0	15.0	11.0	6.5	4.0	4.0
67.5°	4015.3	1202.2	68.9	41.0	26.0	19.5	12.5	7.5	2.0	0.5	0.0
69°	3930.9	1103.8	58.5	34.9	22.5	18.4	11.5	5.5	1.0	0.0	0.0
70°	3772.0	1009.3	51.4	31.0	20.5	17.5	11.0	4.0	1.0	0.0	0.0
72.5°	3117.0	718.5	38.9	23.0	15.0	15.5	10.0	2.5	1.0	0.0	0.0
75°	2270.5	436.7	27.9	16.0	9.5	11.5	7.0	1.0	0.5	0.0	0.0
77.5°	1263.2	205.9	17.5	9.0	6.0	7.0	3.5	0.0	0.0	0.0	0.0
80°	410.3	56.0	8.0	5.0	3.5	4.0	1.5	0.0	0.0	0.0	0.0
82.5°	75.9	16.0	4.5	2.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	16.5	6.5	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	2.0	0.5	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)