

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: P322228

Luminaire Tested: **GAN-SA4A-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13700 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

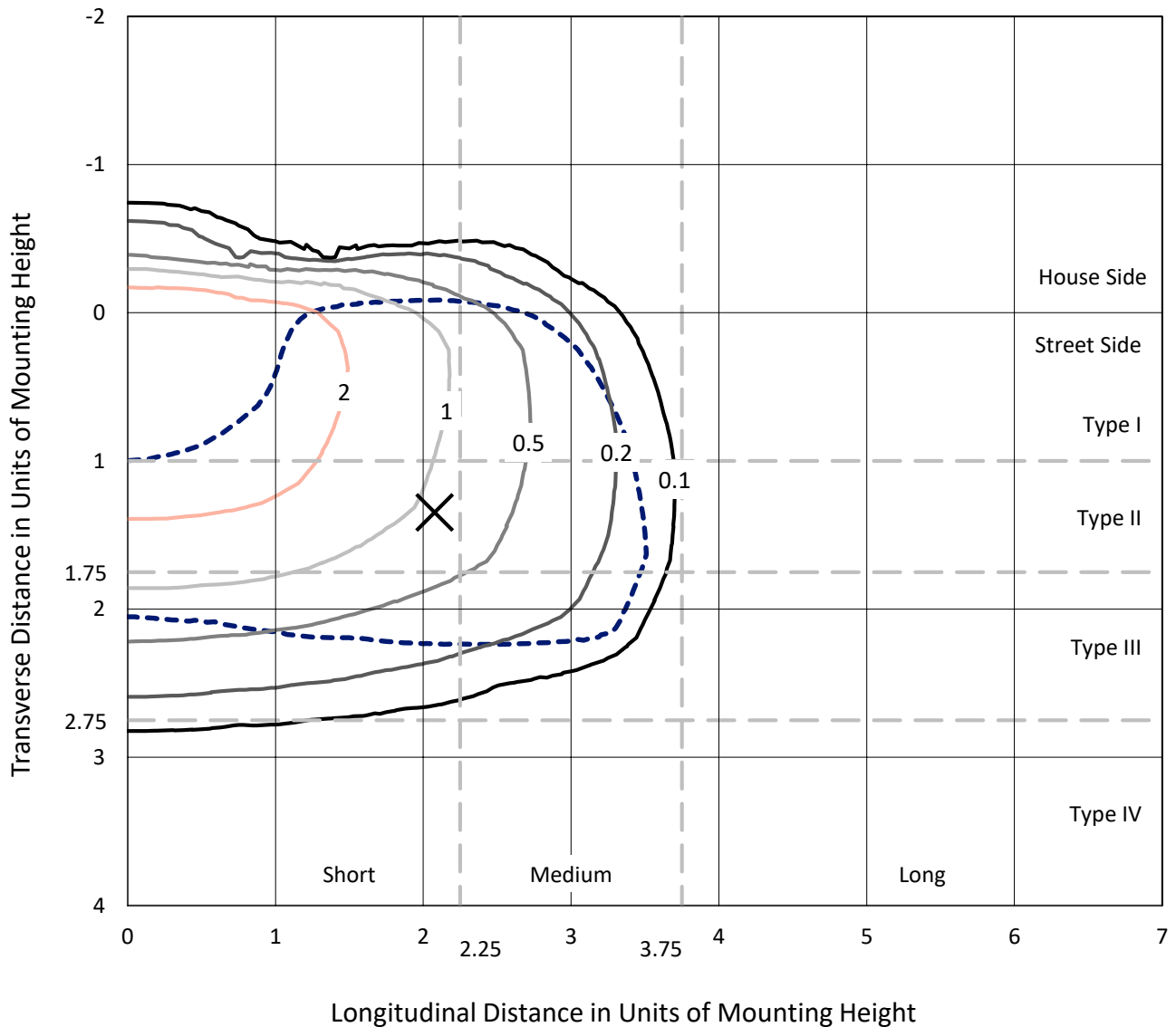
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

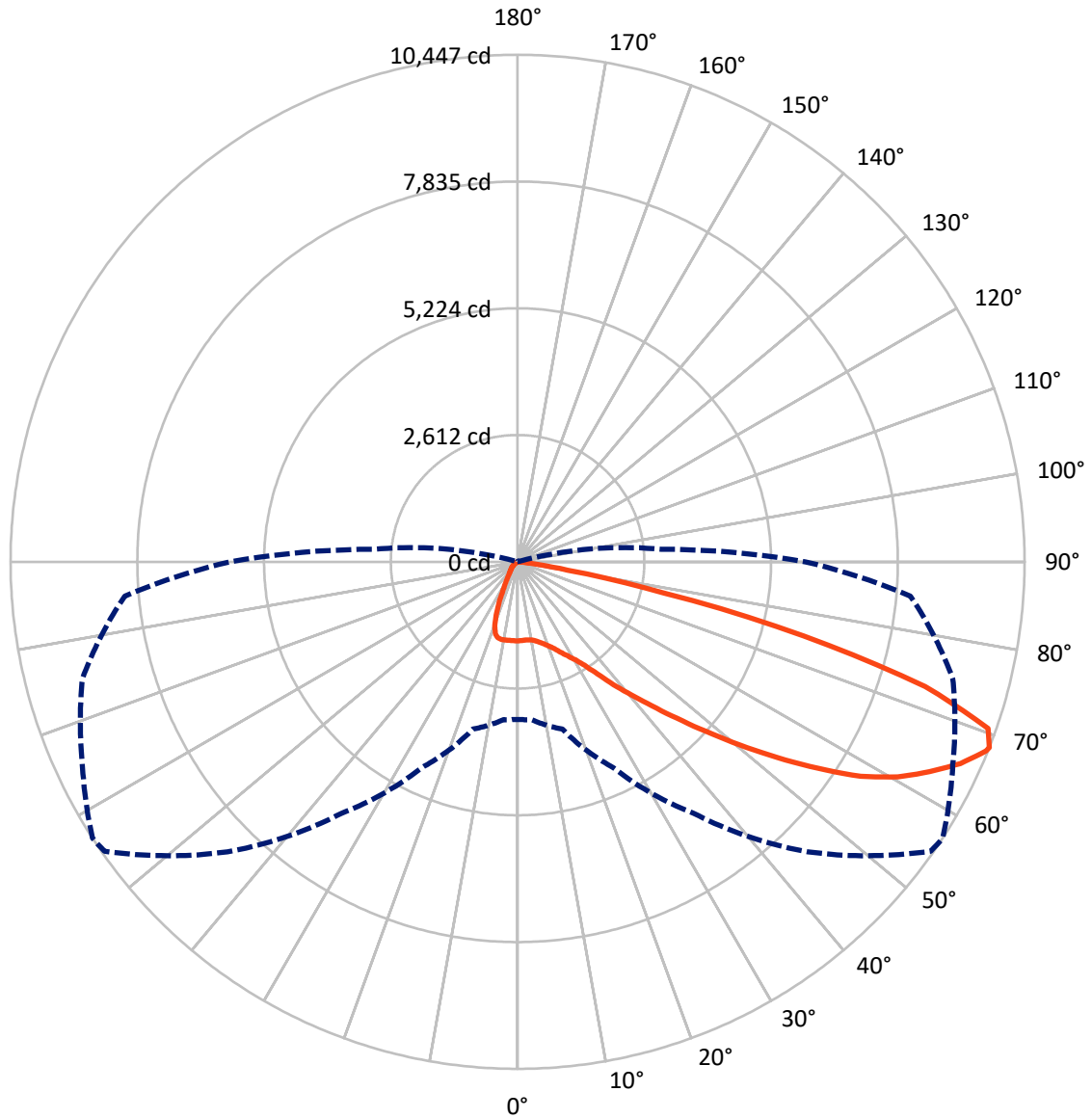
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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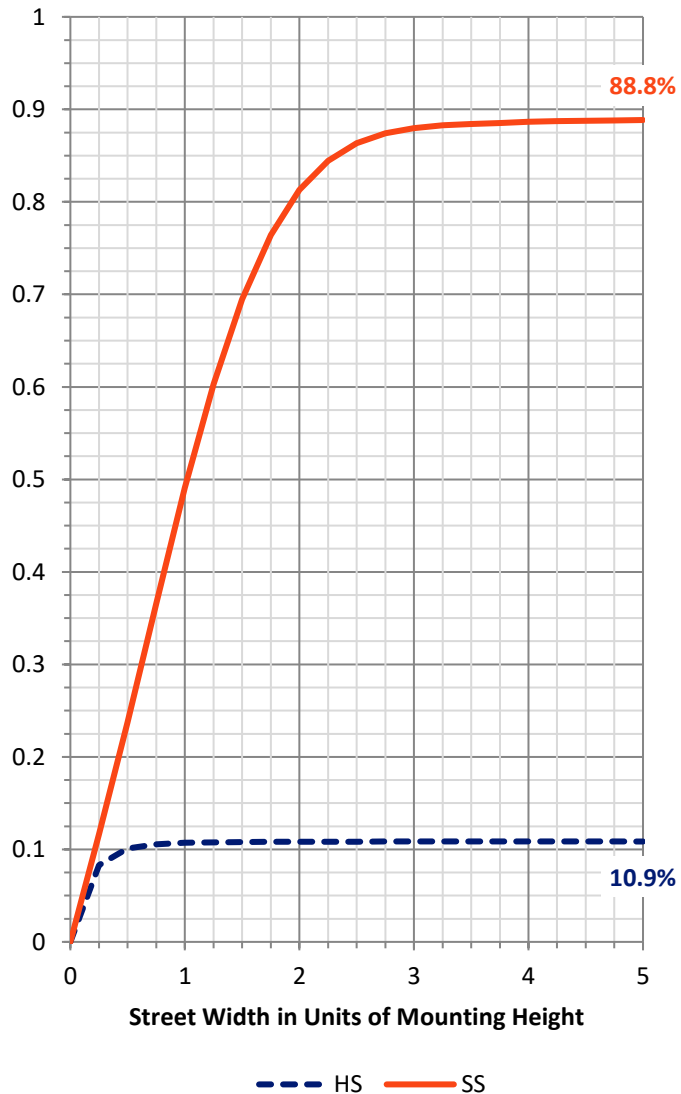
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1502.3	0.0	1502.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	12197.7	0.0	12197.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	13700.0	0.0	13700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	1.1
10°-20°	422.2	3.1
20°-30°	728.3	5.3
30°-40°	1257.0	9.2
40°-50°	2150.1	15.7
50°-60°	3440.0	25.1
60°-70°	3974.5	29.0
70°-80°	1518.7	11.1
80°-90°	56.9	0.4
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°	13700.0	100.0
0°-180°	13700.0	100.0

Coefficient of Utilization



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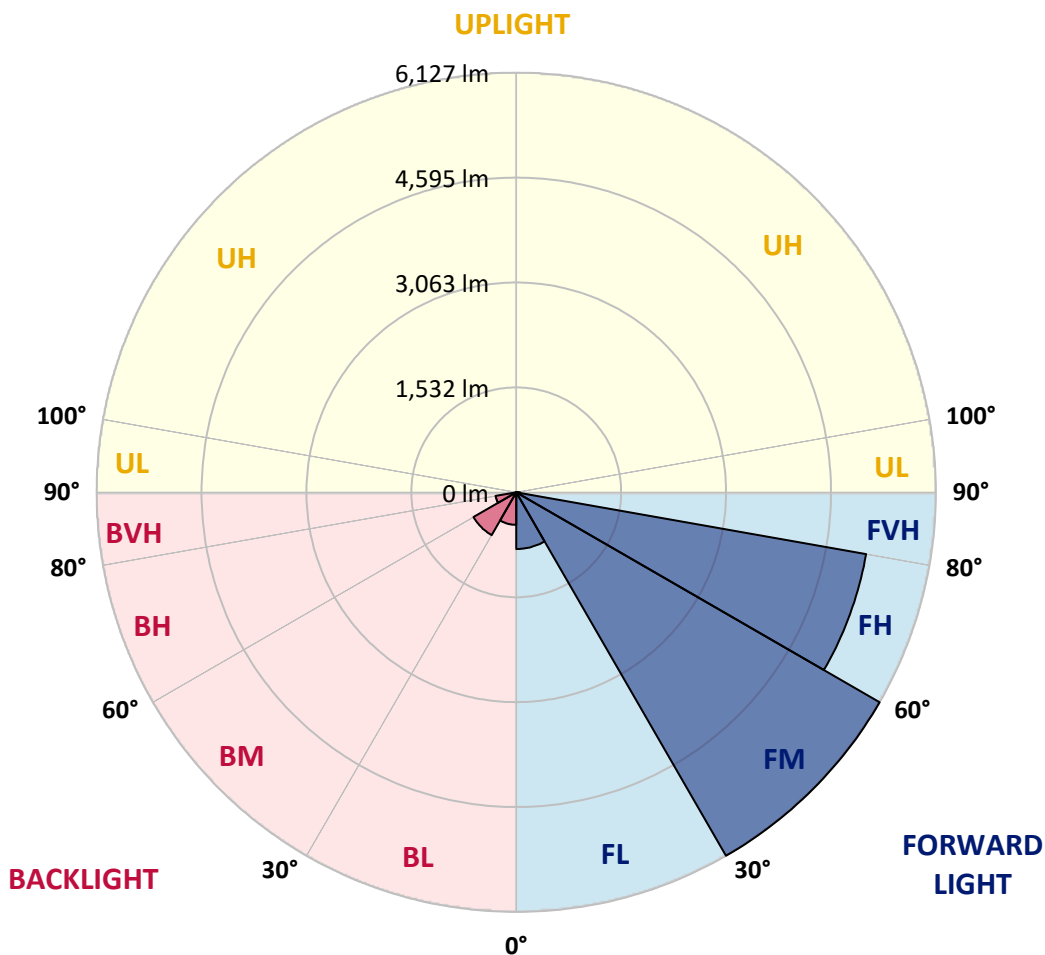
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.0	6.0			
FM (30°-60°)	6126.5	44.7			
FH (60°-80°)	5187.3	37.9			G3/7500
FVH (80°-90°)	55.9	0.4			G1/100
BL (0°-30°)	474.8	3.5	B1/500		
BM (30°-60°)	720.5	5.3	B1/1000		
BH (60°-80°)	306.0	2.2	B1/500		G1/500
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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9
2.5°	1589.7	1596.8	1602.0	1605.2	1609.1	1617.6	1620.1	1624.0	1626.0	1626.0	1630.5
5°	1526.9	1534.6	1545.7	1554.7	1572.9	1596.2	1613.0	1619.5	1631.2	1641.5	1647.4
7.5°	1468.6	1477.6	1490.6	1512.0	1543.1	1580.6	1615.6	1624.7	1647.4	1669.4	1680.4
10°	1431.0	1438.1	1455.0	1485.4	1526.2	1578.7	1627.9	1638.9	1677.8	1714.7	1735.5
12.5°	1418.0	1424.5	1442.0	1476.3	1526.9	1588.4	1656.4	1672.6	1729.6	1783.4	1812.5
15°	1436.8	1438.1	1456.9	1489.3	1539.2	1612.4	1703.7	1723.1	1795.1	1865.0	1901.3
17.5°	1509.4	1503.5	1513.3	1527.5	1567.0	1644.1	1753.6	1782.7	1878.6	1960.9	1995.2
20°	1690.8	1690.8	1668.7	1629.9	1630.5	1693.3	1821.0	1854.0	1971.3	2066.5	2097.6
22.5°	2001.1	1995.2	1951.2	1855.9	1768.5	1778.2	1903.2	1946.0	2082.7	2184.4	2194.7
25°	2374.2	2367.1	2299.0	2164.9	2013.4	1915.5	2014.7	2063.9	2215.5	2305.5	2284.1
27.5°	2769.3	2763.5	2696.1	2529.7	2313.9	2134.5	2147.5	2194.1	2350.9	2439.6	2371.6
30°	3152.2	3154.1	3087.4	2916.4	2672.2	2413.7	2315.9	2343.1	2482.4	2572.4	2475.2
32.5°	3516.3	3518.8	3461.2	3270.1	3042.1	2738.3	2549.1	2542.0	2635.3	2724.0	2612.6
35°	3840.8	3847.3	3807.8	3659.4	3417.8	3099.7	2851.6	2834.8	2852.3	2952.7	2823.1
37.5°	4153.7	4157.6	4127.8	4002.8	3800.6	3496.8	3233.8	3209.8	3172.3	3249.4	3101.0
40°	4496.4	4486.7	4452.3	4339.0	4165.4	3935.4	3644.5	3603.1	3537.6	3606.3	3466.4
42.5°	4815.1	4804.1	4809.9	4681.7	4535.2	4386.3	4123.2	4052.0	4013.8	4092.8	3914.7
45°	5213.5	5207.7	5227.1	5115.7	4997.1	4888.9	4671.9	4594.2	4577.4	4670.0	4456.9
47.5°	5606.7	5621.0	5681.2	5633.9	5586.0	5490.8	5253.0	5218.0	5228.4	5340.5	5028.9
50°	5934.5	5951.3	6116.5	6170.9	6240.3	6184.5	5946.2	5924.8	5965.6	6066.6	5644.3
52.5°	6171.6	6205.9	6411.3	6662.0	6914.6	6952.2	6714.4	6695.0	6750.1	6765.6	6119.8
55°	6336.1	6366.6	6599.1	7057.8	7572.1	7734.1	7586.4	7511.2	7500.9	7347.3	6619.9
57.5°	6365.3	6362.0	6696.3	7313.7	8087.8	8505.6	8412.3	8338.5	8126.0	7885.0	7193.2
60°	6200.7	6219.5	6607.6	7402.4	8411.7	9089.3	9096.4	9000.5	8669.5	8407.8	7749.0
62.5°	5694.2	5770.6	6162.5	7169.8	8407.8	9324.4	9597.8	9524.6	9128.8	8836.0	8312.6
65°	4872.8	4900.0	5273.7	6373.1	7839.7	9226.0	10049.3	10022.1	9542.7	9251.9	8602.1
67.5°	3558.4	3499.4	3892.0	5018.5	6637.4	8652.0	10373.2	10407.6	9862.1	9337.4	8293.8
68°	3247.4	3264.9	3570.7	4683.6	6322.5	8449.3	10394.6	10447.1	9893.8	9281.7	8125.4
70°	1935.6	1969.3	2242.0	3224.7	4809.9	7302.0	10164.0	10283.8	9704.7	8707.1	7028.0
72.5°	494.3	534.4	792.3	1443.3	2747.3	5144.8	8580.1	8782.9	8425.9	7063.6	4744.5
75°	203.4	213.8	283.1	475.5	1023.5	2317.8	5655.3	6089.3	5841.2	4228.8	2144.2
77.5°	140.6	147.7	182.0	263.7	443.1	785.8	2772.6	3086.1	2780.4	1443.3	467.7
80°	101.1	106.9	130.2	175.6	254.6	280.5	903.7	1044.9	829.8	316.8	116.0
82.5°	60.2	64.8	97.2	125.0	154.8	134.1	224.8	255.2	240.3	157.4	51.8
85°	29.8	35.0	65.4	89.4	83.6	56.4	68.7	76.4	94.6	95.9	27.9
87.5°	1.9	3.9	38.2	53.8	23.3	13.0	20.1	24.6	33.7	47.3	11.7
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°	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9	1627.9
2.5°	1632.5	1633.1	1628.6	1626.6	1627.9	1620.1	1616.9	1618.2	1618.2	1620.1	1616.9
5°	1648.7	1648.7	1640.9	1630.5	1624.7	1609.8	1600.1	1597.5	1595.5	1594.2	1591.6
7.5°	1683.6	1679.7	1666.1	1643.5	1624.0	1591.6	1567.0	1554.1	1547.6	1545.0	1543.1
10°	1740.0	1732.9	1710.2	1668.1	1623.4	1565.7	1512.0	1473.7	1442.0	1429.0	1421.3
12.5°	1815.8	1805.4	1767.2	1697.2	1618.9	1512.6	1396.0	1283.9	1179.6	1136.9	1115.5
15°	1903.2	1888.3	1828.1	1721.9	1592.3	1392.8	1139.5	943.2	798.7	744.3	721.0
17.5°	1992.0	1972.6	1881.2	1737.4	1512.6	1144.7	799.4	603.7	507.2	481.3	472.2
20°	2081.4	2052.9	1927.2	1725.7	1332.5	825.3	527.3	441.2	413.3	405.5	402.9
22.5°	2166.2	2122.2	1968.7	1680.4	1055.3	553.9	417.2	390.0	380.9	376.4	375.1
25°	2240.1	2178.6	2004.9	1540.5	746.9	418.5	375.7	366.7	355.0	346.6	347.2
27.5°	2309.4	2234.9	2027.0	1309.9	498.2	357.6	347.9	335.6	314.2	301.9	301.9
30°	2393.0	2310.1	2043.2	1008.0	366.7	316.1	308.4	289.6	260.4	244.2	244.2
32.5°	2518.6	2424.1	2032.8	707.4	303.8	277.9	259.8	233.9	202.1	186.6	185.9
35°	2711.0	2600.3	1958.9	463.8	268.2	241.6	212.5	180.7	152.9	139.9	139.3
37.5°	2970.2	2836.1	1793.1	331.7	240.3	207.9	173.0	138.0	117.3	108.8	108.2
40°	3306.4	3110.1	1556.0	268.8	214.4	175.6	133.4	106.9	92.6	86.2	86.8
42.5°	3710.0	3403.5	1271.6	231.9	189.2	144.5	104.3	84.2	75.1	70.6	69.3
45°	4158.2	3693.1	973.6	206.6	163.9	116.6	81.6	66.7	59.6	57.0	57.0
47.5°	4651.2	3974.9	712.6	184.6	136.7	90.0	65.4	54.4	48.6	46.6	46.0
50°	5098.8	4170.5	513.7	161.3	112.1	71.3	53.1	45.3	41.5	38.9	38.9
52.5°	5472.0	4232.1	378.3	136.0	90.7	57.0	44.1	38.9	35.0	33.0	33.0
55°	5800.4	4206.8	281.1	112.1	73.2	46.6	37.6	33.0	29.8	27.9	27.9
57.5°	6115.2	4125.2	209.9	91.3	58.9	37.6	31.7	27.9	24.6	23.3	23.3
60°	6372.4	3989.2	156.1	73.8	47.3	30.4	26.6	22.7	20.1	18.1	18.1
62.5°	6581.0	3838.9	114.7	60.9	37.6	24.0	20.7	18.8	14.9	13.0	13.0
65°	6582.3	3589.5	86.2	50.5	29.2	18.8	15.5	14.9	9.7	7.8	7.1
67.5°	6106.2	3094.5	66.1	43.4	22.7	14.3	11.7	12.3	5.2	3.2	2.6
68°	5933.2	2968.9	62.2	42.8	21.4	13.6	11.0	12.3	4.5	2.6	1.9
70°	5002.3	2361.9	49.9	41.5	18.8	10.4	9.1	12.3	3.9	1.9	1.3
72.5°	3199.5	1370.7	36.9	33.0	14.3	7.8	5.8	11.0	3.9	1.3	0.6
75°	1361.7	425.0	25.3	23.3	8.4	5.8	3.9	7.1	2.6	0.6	0.0
77.5°	287.0	95.9	14.9	14.3	5.8	3.9	2.6	1.9	0.6	0.0	0.0
80°	73.8	27.9	7.8	7.1	3.2	1.9	1.3	0.0	0.0	0.0	0.0
82.5°	23.3	11.0	4.5	3.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	6.5	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	1.9	0.6	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)