

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: P383066

Luminaire Tested: **GAN-SA4A-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383066
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-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 12762.2 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

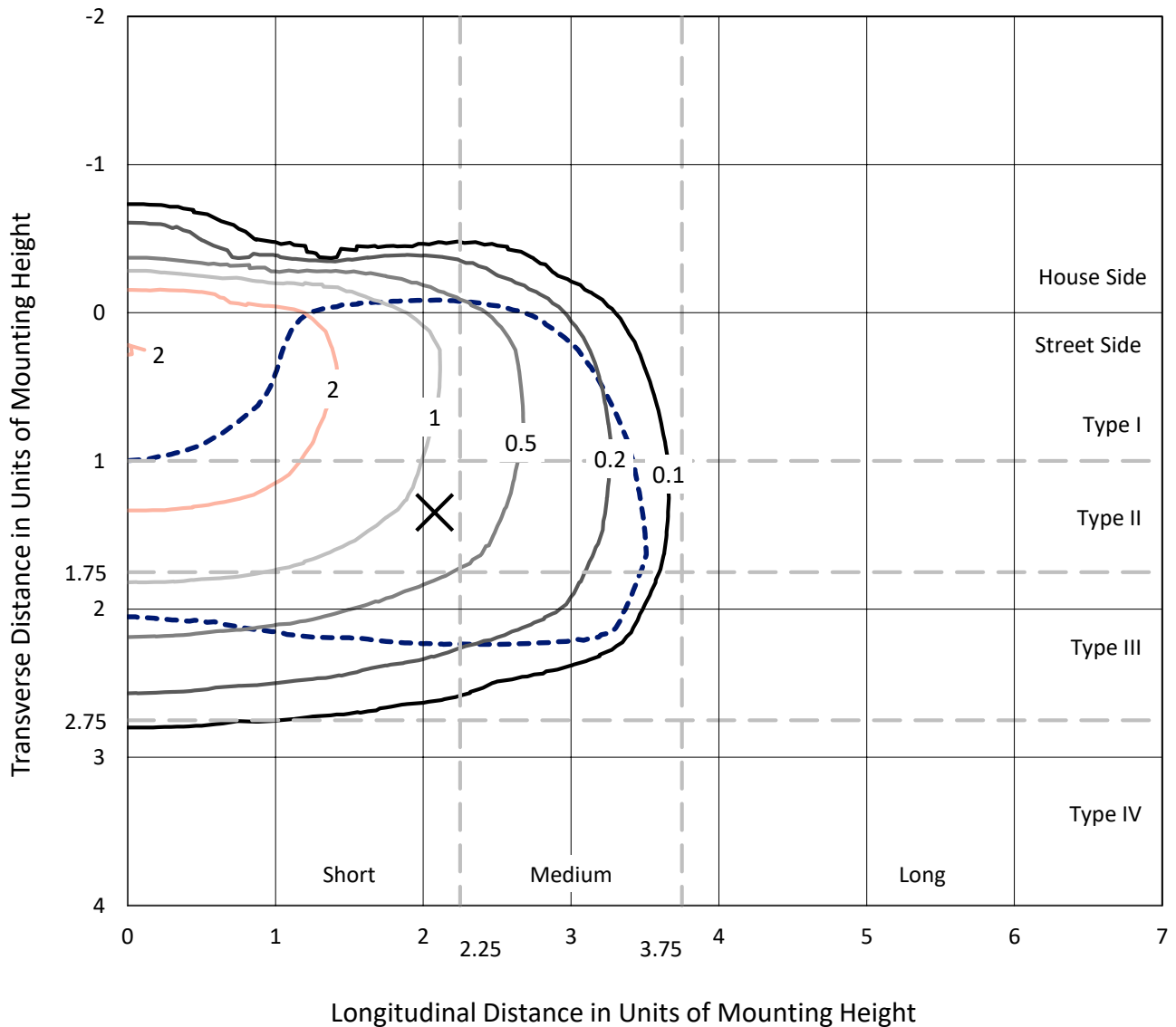
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

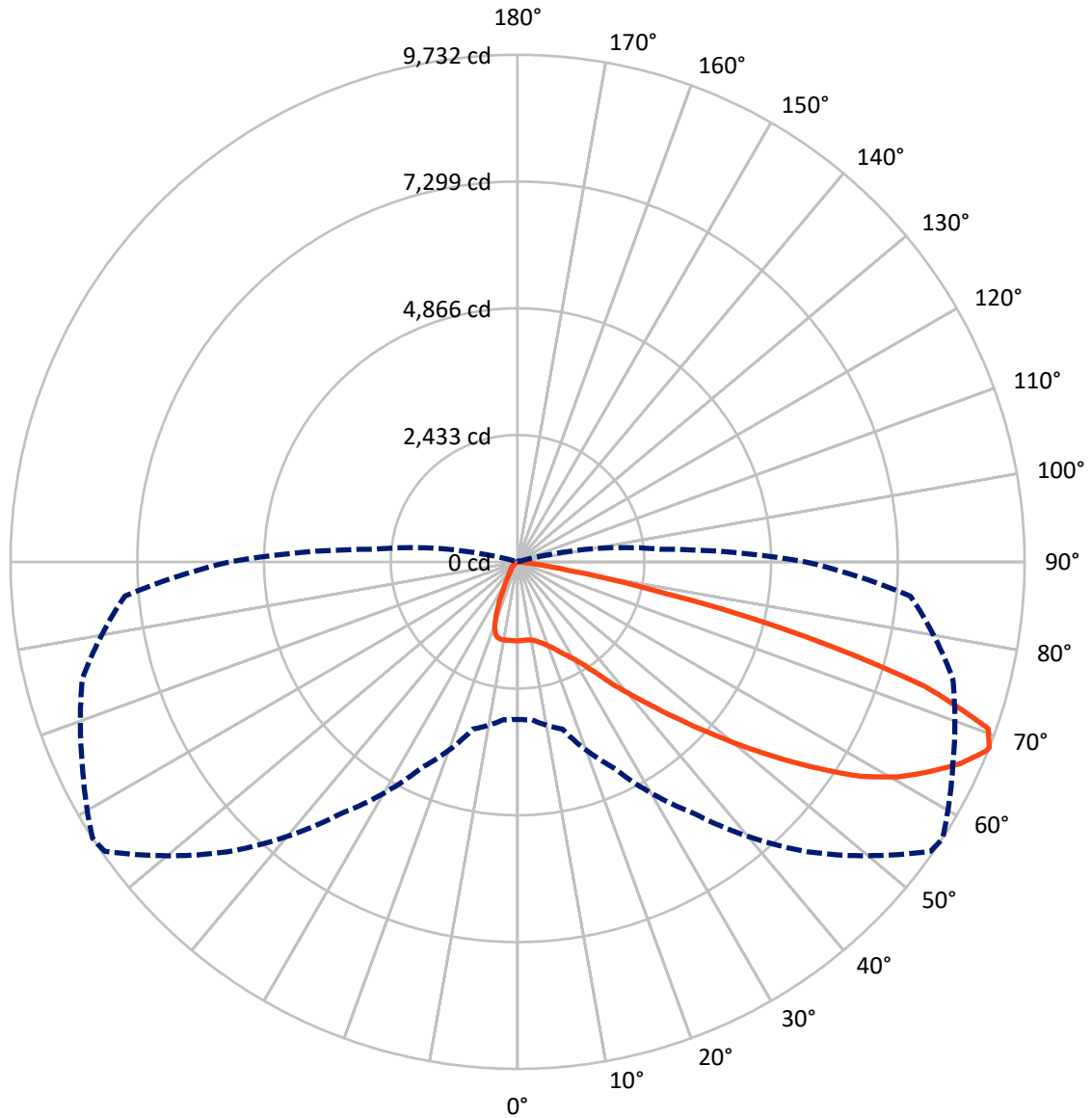
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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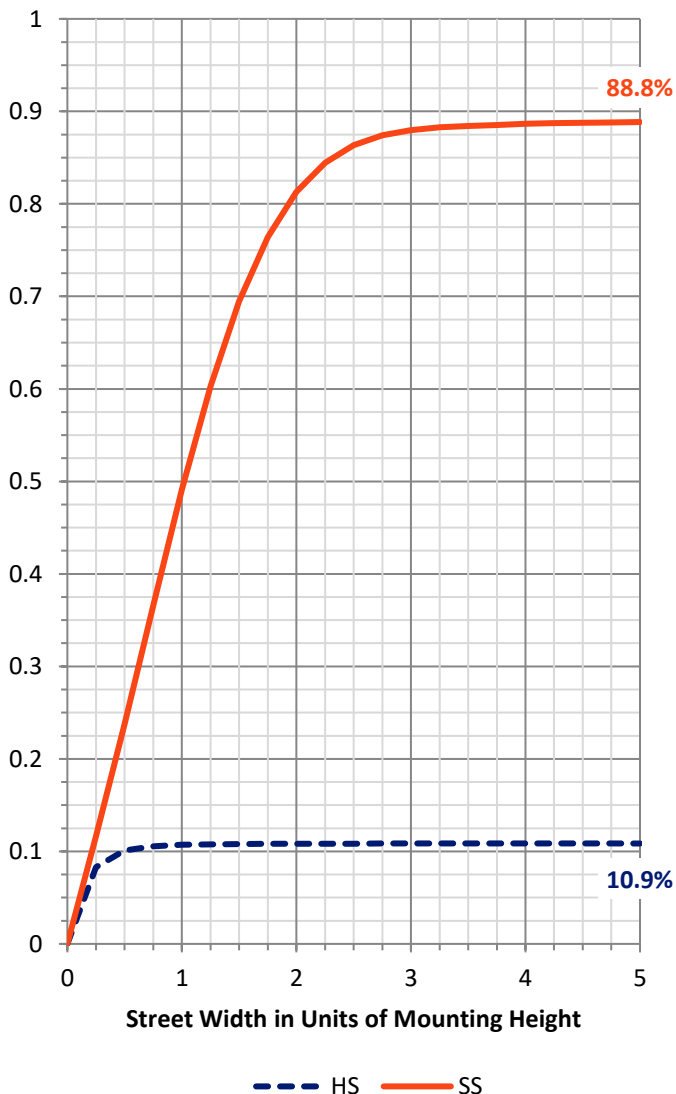
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1399.5	0.0	1399.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	11362.8	0.0	11362.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	12762.2	0.0	12762.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	1.1
10°-20°	393.3	3.1
20°-30°	678.4	5.3
30°-40°	1170.9	9.2
40°-50°	2002.9	15.7
50°-60°	3204.5	25.1
60°-70°	3702.4	29.0
70°-80°	1414.8	11.1
80°-90°	53.0	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°	12762.2	100.0
0°-180°	12762.2	100.0

Coefficient of Utilization



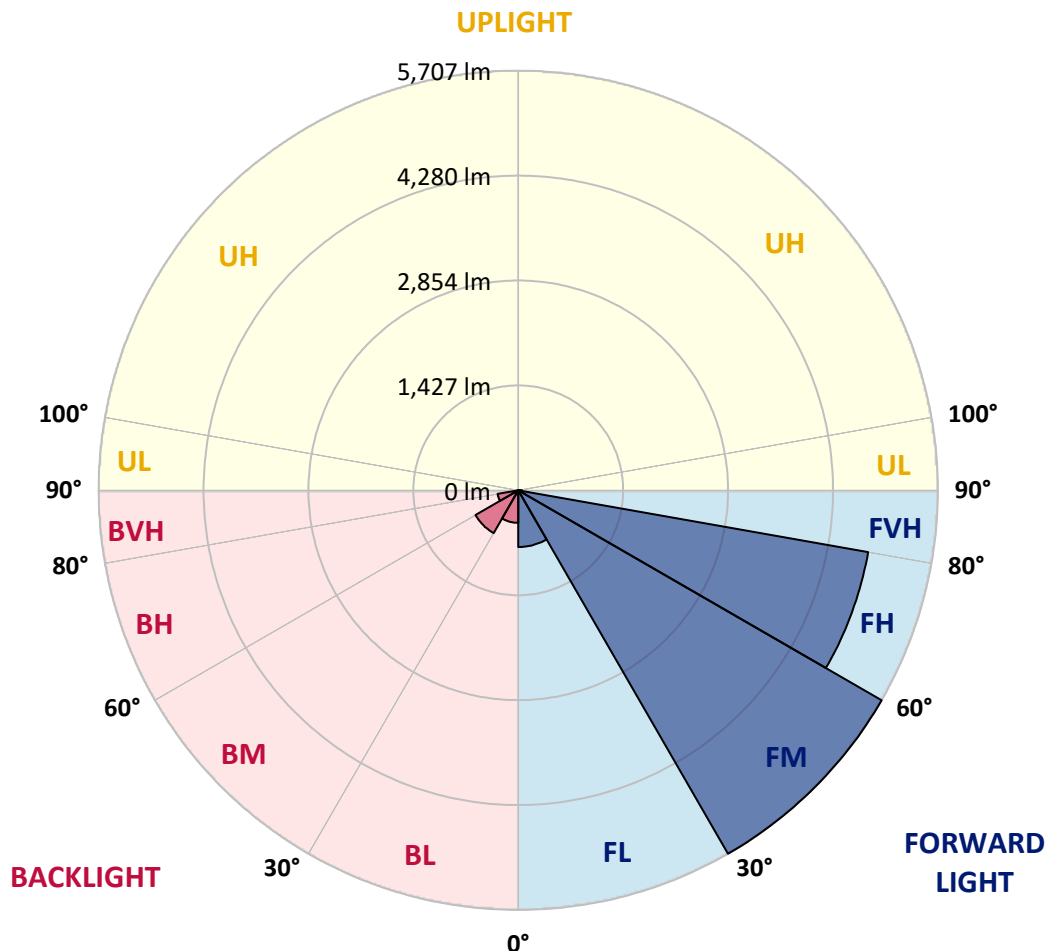
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.4	6.0			
FM (30°-60°)	5707.2	44.7			
FH (60°-80°)	4832.2	37.9			G2/5000
FVH (80°-90°)	52.1	0.4			G1/100
BL (0°-30°)	442.3	3.5	B1/500		
BM (30°-60°)	671.2	5.3	B1/1000		
BH (60°-80°)	285.0	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1516.5	1516.5	1516.5	1516.5	1516.5	1516.5	1516.5	1516.5	1516.5	1516.5	1516.5
2.5°	1480.9	1487.5	1492.3	1495.3	1499.0	1506.9	1509.2	1512.8	1514.7	1514.7	1518.9
5°	1422.4	1429.6	1439.9	1448.3	1465.2	1486.9	1502.6	1508.6	1519.5	1529.1	1534.6
7.5°	1368.1	1376.5	1388.6	1408.5	1437.5	1472.4	1505.0	1513.5	1534.6	1555.1	1565.4
10°	1333.0	1339.7	1355.4	1383.7	1421.7	1470.6	1516.5	1526.7	1563.0	1597.3	1616.7
12.5°	1320.9	1327.0	1343.3	1375.2	1422.4	1479.7	1543.0	1558.1	1611.2	1661.3	1688.4
15°	1338.4	1339.7	1357.2	1387.4	1433.8	1502.0	1587.1	1605.1	1672.2	1737.3	1771.2
17.5°	1406.1	1400.6	1409.7	1422.9	1459.7	1531.6	1633.6	1660.7	1750.0	1826.7	1858.6
20°	1575.1	1575.1	1554.5	1518.3	1518.9	1577.4	1696.3	1727.1	1836.4	1925.0	1954.0
22.5°	1864.1	1858.6	1817.6	1728.9	1647.4	1656.5	1772.9	1812.8	1940.1	2034.9	2044.5
25°	2211.7	2205.1	2141.6	2016.7	1875.6	1784.4	1876.8	1922.6	2063.8	2147.7	2127.7
27.5°	2579.7	2574.3	2511.5	2356.5	2155.5	1988.4	2000.5	2043.9	2190.0	2272.6	2209.3
30°	2936.4	2938.2	2876.1	2716.8	2489.3	2248.5	2157.4	2182.7	2312.5	2396.3	2305.8
32.5°	3275.6	3277.9	3224.3	3046.3	2833.9	2550.9	2374.6	2368.0	2454.9	2537.5	2433.8
35°	3577.9	3583.9	3547.1	3408.9	3183.8	2887.5	2656.4	2640.8	2657.1	2750.6	2629.9
37.5°	3869.4	3873.0	3845.2	3728.8	3540.4	3257.4	3012.4	2990.1	2955.1	3027.0	2888.7
40°	4188.6	4179.6	4147.5	4042.0	3880.3	3666.0	3395.0	3356.5	3295.4	3359.4	3229.1
42.5°	4485.5	4475.2	4480.7	4361.2	4224.8	4086.0	3841.0	3774.6	3739.0	3812.6	3646.7
45°	4856.6	4851.2	4869.3	4765.5	4655.0	4554.2	4352.1	4279.7	4264.1	4350.3	4151.8
47.5°	5222.9	5236.2	5292.3	5248.2	5203.6	5114.9	4893.4	4860.8	4870.5	4974.9	4684.7
50°	5528.3	5543.9	5697.8	5748.5	5813.1	5761.2	5539.2	5519.2	5557.2	5651.3	5257.9
52.5°	5749.1	5781.1	5972.4	6206.0	6441.3	6476.3	6254.8	6236.7	6288.0	6302.5	5700.9
55°	5902.4	5930.8	6147.4	6574.7	7053.8	7204.7	7067.1	6997.0	6987.4	6844.4	6166.8
57.5°	5929.6	5926.5	6237.9	6813.1	7534.2	7923.4	7836.5	7767.7	7569.8	7345.3	6700.8
60°	5776.2	5793.8	6155.3	6895.7	7835.9	8467.1	8473.7	8384.4	8076.1	7832.3	7218.6
62.5°	5304.4	5375.6	5740.7	6679.0	7832.3	8686.1	8940.8	8872.6	8503.9	8231.2	7743.6
65°	4539.2	4564.6	4912.7	5936.8	7303.1	8594.5	9361.4	9336.1	8889.5	8618.6	8013.3
67.5°	3314.8	3259.9	3625.6	4675.0	6183.1	8059.7	9663.1	9695.2	9187.0	8698.2	7726.1
68°	3025.1	3041.4	3326.3	4363.0	5889.7	7870.9	9683.1	9732.0	9216.5	8646.3	7569.2
70°	1803.1	1834.5	2088.5	3004.0	4480.7	6802.2	9468.2	9579.8	9040.4	8111.1	6546.9
72.5°	460.5	497.8	738.1	1344.5	2559.2	4792.6	7992.8	8181.7	7849.1	6580.1	4419.7
75°	189.5	199.2	263.7	443.0	953.4	2159.1	5268.2	5672.5	5441.4	3939.3	1997.4
77.5°	131.0	137.6	169.5	245.6	412.8	732.0	2582.8	2874.8	2590.1	1344.5	435.7
80°	94.2	99.6	121.3	163.6	237.2	261.3	841.8	973.4	773.0	295.1	108.1
82.5°	56.1	60.4	90.5	116.4	144.2	124.9	209.4	237.7	223.9	146.6	48.3
85°	27.8	32.6	60.9	83.3	77.9	52.5	64.0	71.2	88.1	89.3	26.0
87.5°	1.8	3.6	35.6	50.1	21.7	12.1	18.7	22.9	31.4	44.1	10.9
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°	1516.5	1516.5	1516.5	1516.5	1516.5	1516.5	1516.5	1516.5	1516.5	1516.5	1516.5
2.5°	1520.8	1521.3	1517.1	1515.3	1516.5	1509.2	1506.2	1507.4	1507.4	1509.2	1506.2
5°	1535.8	1535.8	1528.6	1518.9	1513.5	1499.6	1490.6	1488.1	1486.3	1485.1	1482.7
7.5°	1568.4	1564.7	1552.1	1531.0	1512.8	1482.7	1459.7	1447.7	1441.7	1439.2	1437.5
10°	1620.9	1614.3	1593.1	1553.9	1512.3	1458.5	1408.5	1372.8	1343.3	1331.2	1324.0
12.5°	1691.5	1681.8	1646.2	1581.0	1508.1	1409.1	1300.4	1196.0	1098.9	1059.1	1039.1
15°	1772.9	1759.0	1703.0	1604.0	1483.3	1297.5	1061.5	878.6	744.0	693.4	671.6
17.5°	1855.6	1837.6	1752.4	1618.5	1409.1	1066.3	744.7	562.4	472.5	448.4	439.9
20°	1938.9	1912.4	1795.3	1607.6	1241.3	768.8	491.2	411.0	385.0	377.7	375.3
22.5°	2017.9	1976.9	1833.9	1565.4	983.1	516.0	388.6	363.3	354.8	350.6	349.4
25°	2086.8	2029.5	1867.7	1435.0	695.8	389.9	350.0	341.6	330.7	322.9	323.4
27.5°	2151.3	2081.9	1888.2	1220.2	464.1	333.1	324.1	312.6	292.7	281.2	281.2
30°	2229.2	2152.0	1903.3	939.0	341.6	294.5	287.3	269.8	242.6	227.5	227.5
32.5°	2346.2	2258.2	1893.6	659.0	283.0	258.9	242.0	217.9	188.3	173.8	173.2
35°	2525.4	2422.3	1824.8	432.1	249.8	225.1	198.0	168.3	142.4	130.3	129.8
37.5°	2766.9	2642.0	1670.4	309.0	223.9	193.7	161.2	128.6	109.3	101.4	100.8
40°	3080.1	2897.2	1449.5	250.4	199.7	163.6	124.3	99.6	86.3	80.3	80.9
42.5°	3456.0	3170.5	1184.6	216.0	176.2	134.6	97.2	78.4	70.0	65.8	64.6
45°	3873.6	3440.3	907.0	192.5	152.7	108.6	76.0	62.1	55.5	53.1	53.1
47.5°	4332.8	3702.8	663.8	172.0	127.3	83.8	60.9	50.7	45.3	43.4	42.9
50°	4749.8	3885.0	478.5	150.3	104.4	66.4	49.5	42.2	38.7	36.2	36.2
52.5°	5097.4	3942.4	352.4	126.7	84.5	53.1	41.1	36.2	32.6	30.7	30.7
55°	5403.3	3918.8	261.9	104.4	68.2	43.4	35.0	30.7	27.8	26.0	26.0
57.5°	5696.6	3842.8	195.5	85.1	54.9	35.0	29.5	26.0	22.9	21.7	21.7
60°	5936.2	3716.1	145.4	68.7	44.1	28.3	24.8	21.1	18.7	16.9	16.9
62.5°	6130.5	3576.1	106.8	56.7	35.0	22.4	19.3	17.5	13.9	12.1	12.1
65°	6131.7	3343.8	80.3	47.0	27.2	17.5	14.4	13.9	9.0	7.3	6.6
67.5°	5688.2	2882.7	61.6	40.4	21.1	13.3	10.9	11.5	4.8	3.0	2.4
68°	5527.1	2765.7	57.9	39.9	19.9	12.7	10.2	11.5	4.2	2.4	1.8
70°	4659.9	2200.2	46.5	38.7	17.5	9.7	8.5	11.5	3.6	1.8	1.2
72.5°	2980.5	1276.9	34.4	30.7	13.3	7.3	5.4	10.2	3.6	1.2	0.6
75°	1268.5	395.9	23.6	21.7	7.8	5.4	3.6	6.6	2.4	0.6	0.0
77.5°	267.4	89.3	13.9	13.3	5.4	3.6	2.4	1.8	0.6	0.0	0.0
80°	68.7	26.0	7.3	6.6	3.0	1.8	1.2	0.0	0.0	0.0	0.0
82.5°	21.7	10.2	4.2	3.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	6.1	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	1.8	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)