

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: P322507

Luminaire Tested: **GAN-SA3A-730-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322507  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3A-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9201 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

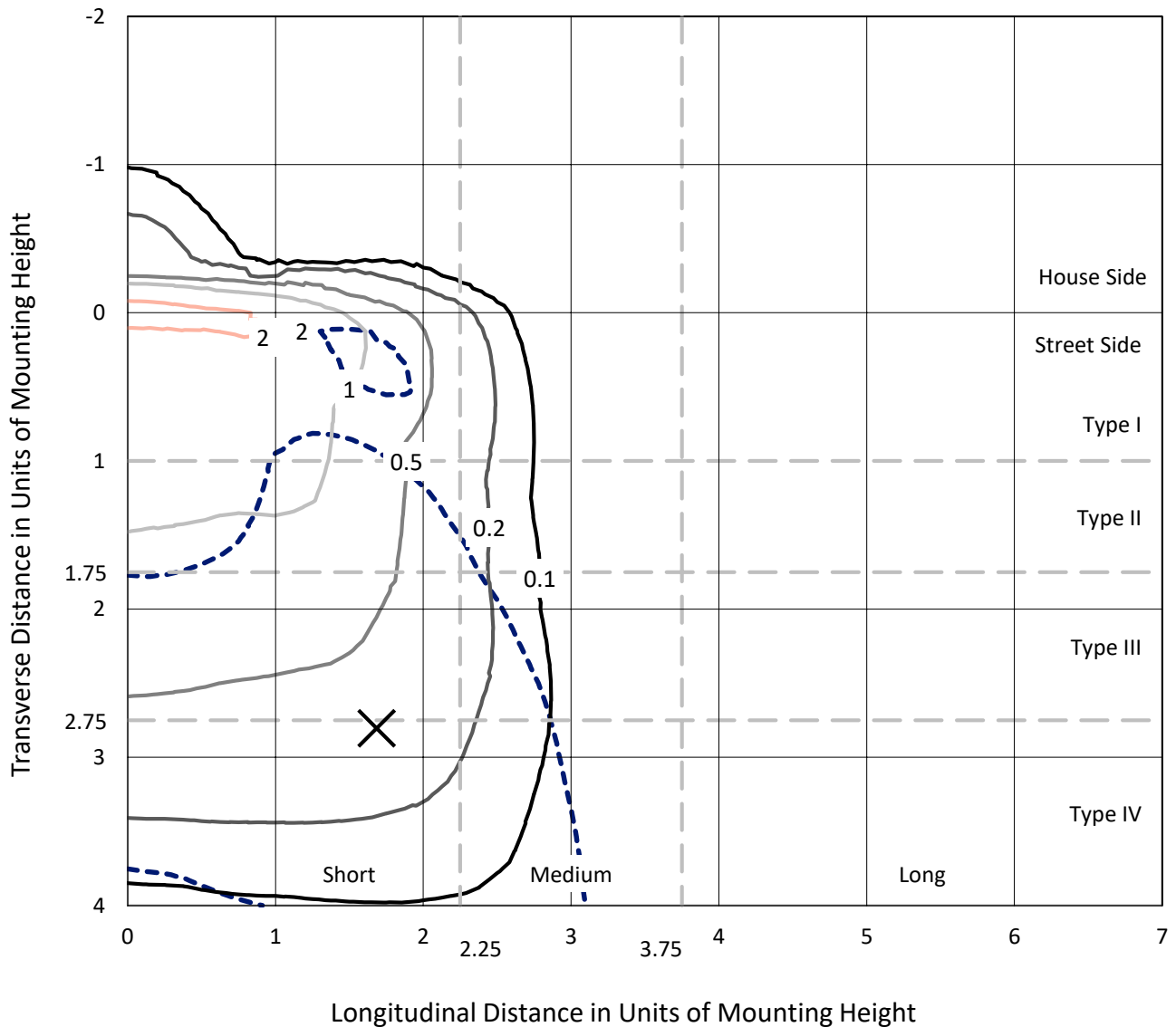
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

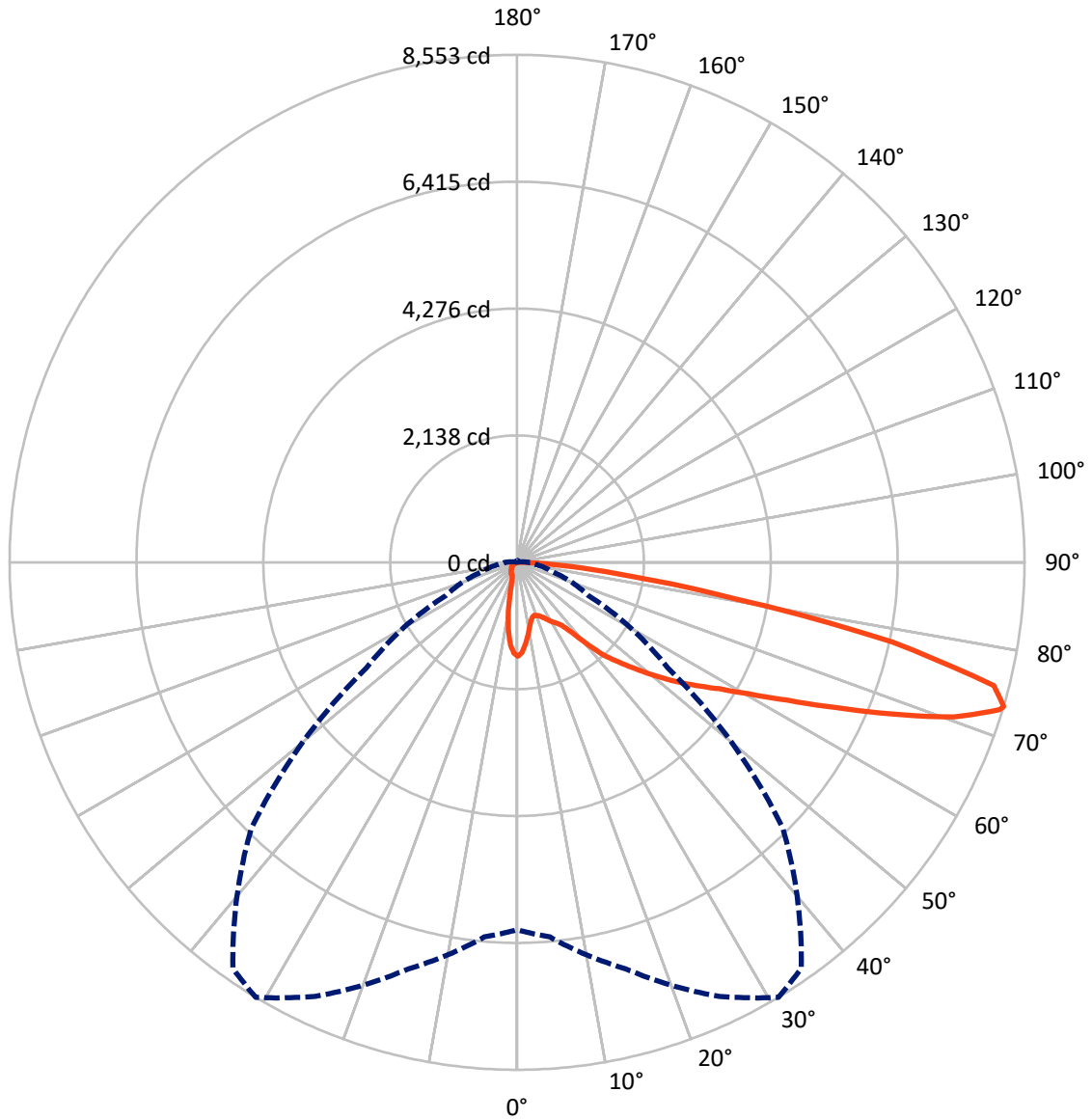
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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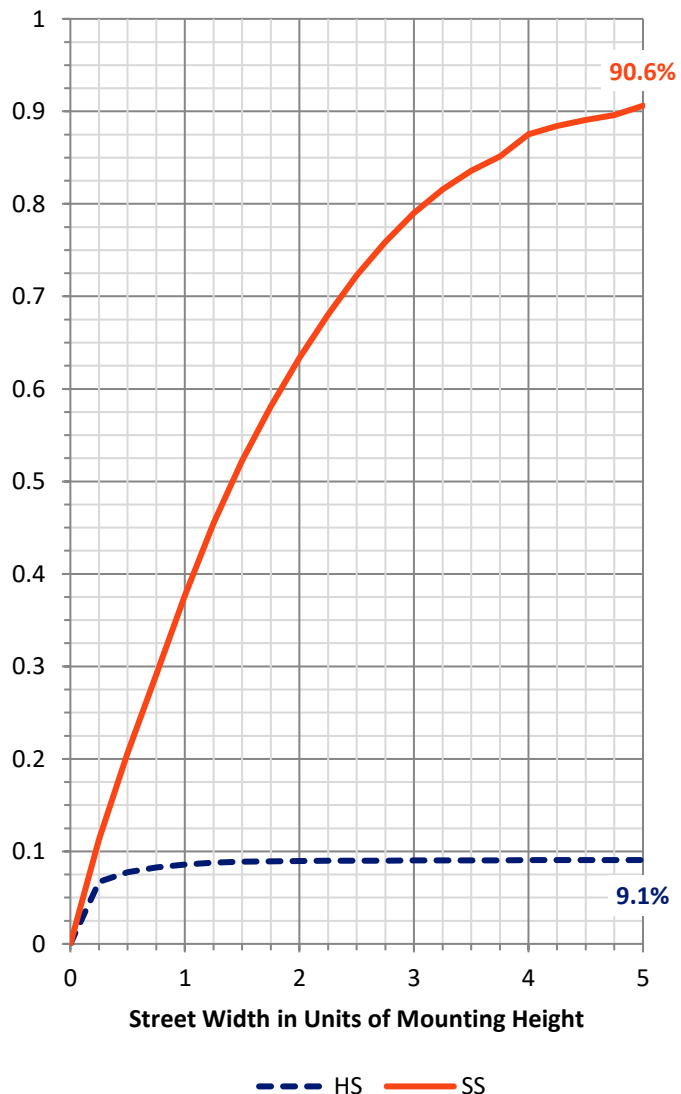
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	838.7	0.0	838.7
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	8362.3	0.0	8362.3
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	9201.0	0.0	9201.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.3	1.4
10°-20°	285.0	3.1
20°-30°	427.0	4.6
30°-40°	679.4	7.4
40°-50°	1213.2	13.2
50°-60°	1882.5	20.5
60°-70°	2502.5	27.2
70°-80°	1882.4	20.5
80°-90°	197.8	2.1
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°	9201.0	100.0
0°-180°	9201.0	100.0

**Coefficient of Utilization**



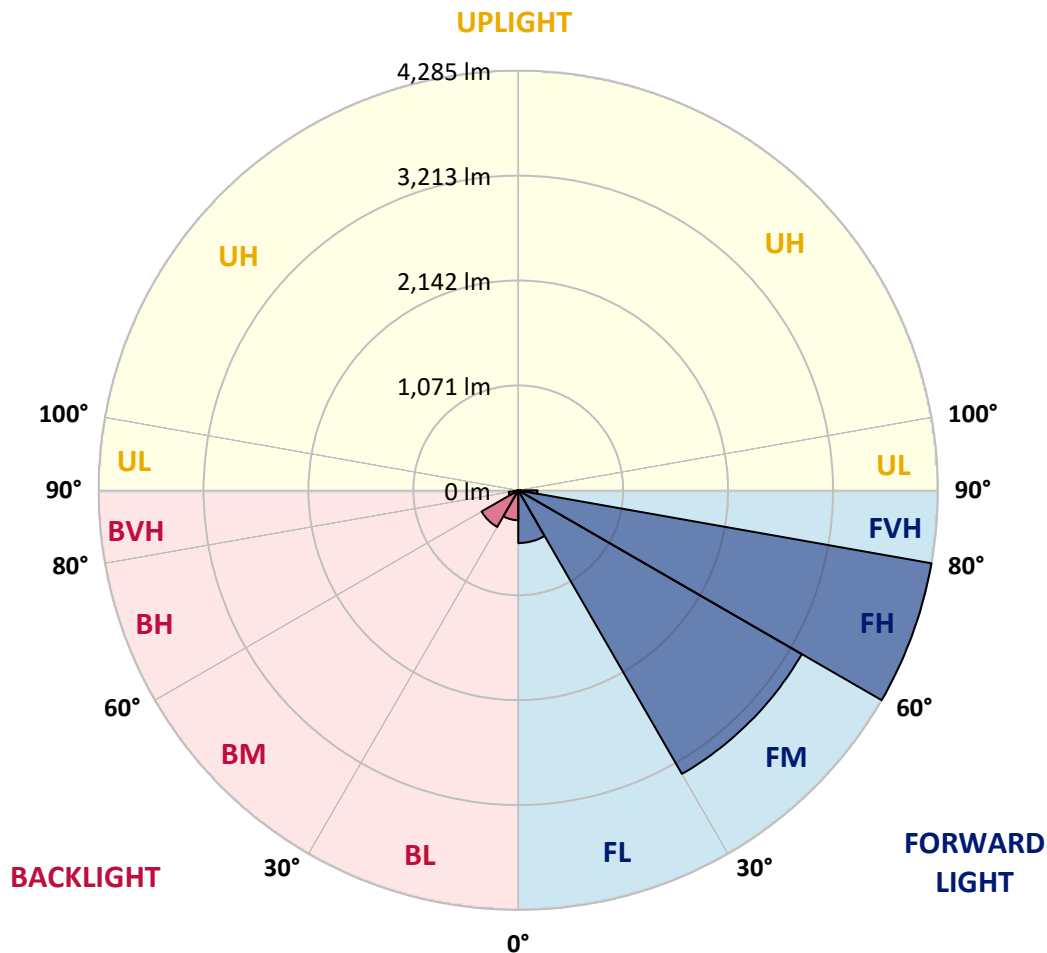
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	538.3	5.9			
FM (30°-60°)	3343.3	36.3			
FH (60°-80°)	4284.6	46.6			G2/5000
FVH (80°-90°)	196.1	2.1			G2/225
BL (0°-30°)	305.0	3.3	B1/500		
BM (30°-60°)	431.7	4.7	B1/1000		
BH (60°-80°)	100.4	1.1	B0/110		G0/110
BVH (80°-90°)	1.7	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1
2.5°	1500.2	1506.5	1513.3	1514.6	1525.9	1526.3	1542.5	1554.7	1566.8	1578.5	1582.6
5°	1346.2	1356.6	1368.7	1380.9	1404.8	1414.2	1453.8	1494.4	1533.1	1570.0	1588.0
7.5°	1181.9	1193.6	1210.7	1240.9	1267.4	1285.9	1348.5	1420.5	1492.6	1560.5	1599.7
10°	1032.0	1042.8	1060.8	1092.7	1133.7	1158.9	1243.1	1343.1	1448.9	1552.0	1617.3
12.5°	936.5	942.4	952.3	986.5	1023.4	1051.8	1150.8	1274.6	1412.9	1551.5	1645.6
15°	918.9	920.7	912.6	927.9	956.8	984.2	1084.6	1219.3	1385.4	1558.7	1682.6
17.5°	946.9	946.0	918.9	917.1	940.1	962.6	1052.2	1181.0	1366.0	1575.4	1730.3
20°	989.2	986.0	939.2	930.7	955.0	976.1	1050.0	1166.6	1358.8	1603.3	1788.4
22.5°	1045.5	1040.1	966.7	957.7	983.8	1005.8	1077.9	1180.5	1365.1	1640.7	1855.9
25°	1115.2	1107.1	1013.9	1004.0	1030.6	1052.7	1127.9	1220.6	1384.0	1686.2	1941.4
27.5°	1194.0	1182.3	1089.6	1063.9	1094.1	1117.1	1194.5	1281.8	1413.8	1734.3	2046.3
30°	1268.3	1253.0	1169.3	1127.0	1163.9	1189.5	1266.5	1354.8	1461.5	1808.6	2190.0
32.5°	1343.1	1326.0	1240.4	1190.0	1223.3	1251.2	1340.8	1455.2	1551.1	1922.1	2380.9
35°	1515.1	1497.1	1392.1	1308.9	1308.4	1324.2	1444.8	1592.5	1669.5	2080.1	2608.7
37.5°	1804.6	1794.2	1694.3	1536.2	1493.9	1476.3	1586.7	1756.4	1839.7	2297.6	2865.8
40°	2121.5	2112.5	2000.4	1857.2	1792.9	1749.6	1790.2	1984.7	2080.1	2563.2	3128.3
42.5°	2479.5	2436.7	2236.8	2194.0	2136.4	2103.5	2067.1	2266.1	2375.5	2852.3	3388.5
45°	2804.6	2732.5	2473.2	2408.3	2395.3	2403.4	2423.7	2644.3	2707.8	3195.8	3647.9
47.5°	2998.2	2941.4	2742.4	2680.3	2676.7	2730.3	2883.3	3071.6	3038.7	3495.2	3876.1
50°	3182.3	3131.0	2965.7	2981.1	2997.7	3070.7	3405.2	3511.0	3340.8	3766.7	4085.5
52.5°	3331.3	3253.0	3166.6	3252.5	3334.5	3452.0	3943.7	3905.4	3555.1	3982.8	4264.7
55°	3417.3	3381.8	3423.6	3510.1	3664.1	3855.0	4452.0	4233.6	3711.8	4180.0	4384.0
57.5°	3732.5	3662.7	3746.0	3820.8	4021.6	4288.6	4887.4	4478.1	3824.8	4302.1	4411.5
60°	4113.9	4057.6	4106.7	4230.9	4502.0	4815.8	5294.4	4677.6	3883.8	4380.4	4340.3
62.5°	4720.8	4646.5	4615.9	4755.0	5114.3	5456.9	5603.3	4815.8	3870.7	4345.7	4096.3
65°	5533.9	5456.9	5320.1	5446.1	5903.1	6144.9	5948.6	4845.1	3780.7	4065.2	3479.5
67.5°	6366.9	6311.0	6194.0	6406.5	6818.9	6896.8	6313.7	4773.9	3490.7	3296.2	2458.3
70°	6917.1	6893.2	6969.3	7439.3	7807.2	7784.7	6648.7	4391.7	2720.8	2027.0	1216.1
72.5°	6520.4	6634.8	7196.7	8049.0	8498.3	8314.6	6476.7	3372.3	1555.1	779.8	351.6
73°	6191.7	6338.1	7094.5	8071.9	8552.8	8351.5	6332.2	3095.4	1325.5	615.5	266.5
75°	4307.5	4487.1	5873.4	7517.7	8298.0	7957.1	5278.2	1894.6	614.1	272.8	107.6
77.5°	2091.4	2224.2	3234.1	5431.7	6453.3	6216.9	3285.9	706.0	277.3	170.6	49.5
80°	780.7	868.1	1403.9	2764.5	3729.4	3827.1	1445.3	267.0	184.6	137.3	25.2
82.5°	204.4	227.8	517.8	1232.8	1911.3	2000.4	455.6	134.6	135.1	113.0	15.3
85°	65.3	74.7	161.6	553.3	900.5	790.6	118.9	65.3	98.2	84.2	8.6
87.5°	8.1	10.4	51.3	130.1	198.6	110.3	18.5	19.4	41.9	46.8	5.0
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°	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1
2.5°	1586.7	1584.4	1584.9	1573.1	1565.5	1550.2	1534.4	1527.2	1519.6	1516.4	1519.6
5°	1594.8	1590.7	1579.0	1543.0	1504.7	1455.2	1408.8	1373.7	1329.6	1317.4	1330.0
7.5°	1607.4	1599.3	1565.0	1491.7	1406.6	1312.0	1205.7	1128.3	1064.8	1023.9	1038.7
10°	1625.8	1610.5	1541.6	1416.9	1264.7	1097.2	946.4	828.9	745.6	711.4	710.0
12.5°	1656.9	1628.1	1512.8	1319.7	1091.4	868.1	670.4	543.0	475.5	431.8	430.9
15°	1691.1	1648.8	1476.3	1203.0	889.7	621.8	431.8	335.0	291.3	277.3	275.5
17.5°	1733.0	1672.6	1429.1	1059.4	678.5	412.0	281.9	253.9	252.1	250.8	250.8
20°	1785.7	1701.0	1368.3	895.1	481.3	275.1	239.5	241.3	242.2	240.4	240.9
22.5°	1846.9	1729.8	1295.8	718.6	325.5	230.1	229.2	231.4	232.3	231.4	231.9
25°	1918.0	1763.1	1207.5	533.5	235.0	218.4	220.6	223.8	226.0	226.0	226.0
27.5°	2006.3	1803.7	1101.3	372.4	203.1	206.2	212.5	218.4	221.5	222.4	222.4
30°	2121.1	1854.1	973.9	255.3	184.6	190.0	201.7	213.0	218.8	219.7	220.2
32.5°	2266.1	1910.8	826.2	188.7	168.8	172.9	185.5	204.4	215.7	217.5	217.5
35°	2432.2	1976.6	667.3	164.3	157.6	158.9	168.8	190.5	210.3	215.2	215.7
37.5°	2614.1	2041.4	507.4	153.5	148.1	148.1	155.3	173.8	197.2	212.5	214.3
40°	2783.8	2080.6	355.7	145.0	139.6	139.6	145.9	159.4	181.4	204.4	209.4
42.5°	2940.5	2094.1	247.6	136.9	131.5	132.8	138.2	149.0	165.7	188.7	193.2
45°	3101.7	2091.8	180.5	127.4	123.4	127.4	131.5	139.6	151.7	164.8	165.7
47.5°	3223.3	2072.9	143.2	118.4	115.7	121.1	124.7	130.1	136.9	136.0	136.0
50°	3337.2	2027.0	115.3	106.3	108.1	114.4	116.2	118.0	118.4	109.9	109.0
52.5°	3423.6	1955.4	92.3	93.2	100.4	106.7	104.9	102.2	97.7	87.3	85.5
55°	3452.5	1817.6	72.5	77.0	89.1	97.3	90.5	84.6	76.1	67.5	65.7
57.5°	3400.2	1639.8	59.0	59.9	75.2	81.9	74.3	67.5	58.1	50.9	49.5
60°	3289.5	1442.1	48.6	45.0	58.1	63.9	59.0	52.2	43.7	38.3	37.8
62.5°	3069.8	1231.4	40.1	35.1	44.1	49.1	45.9	41.0	33.8	30.2	29.7
65°	2607.8	985.1	32.4	28.4	34.2	38.3	35.6	32.0	26.6	23.9	23.4
67.5°	1820.3	665.9	26.6	23.4	27.0	30.2	27.9	26.1	21.2	20.7	21.2
70°	878.0	321.0	22.1	18.9	21.2	23.4	22.5	21.2	20.3	23.4	27.0
72.5°	251.7	107.6	17.6	15.8	17.1	18.5	19.4	18.9	22.1	28.4	32.9
73°	193.6	86.9	16.7	14.9	16.2	18.0	18.9	18.5	22.5	28.8	32.9
75°	82.8	41.9	12.6	12.2	13.5	15.8	16.7	16.7	22.5	29.3	31.5
77.5°	37.4	22.5	8.1	9.5	11.7	12.6	14.0	14.0	18.0	22.5	22.5
80°	21.2	12.2	6.3	7.2	8.6	8.6	8.6	7.7	8.1	9.0	9.9
82.5°	13.5	8.1	5.0	5.9	5.4	4.5	3.6	3.6	3.2	3.6	4.5
85°	7.7	4.5	4.5	3.6	2.3	1.8	2.3	1.8	0.5	0.0	0.5
87.5°	4.5	2.7	1.4	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)