

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: P322516

Luminaire Tested: **GAN-SA2B-730-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322516  
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-SA2B-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA 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: 7563 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

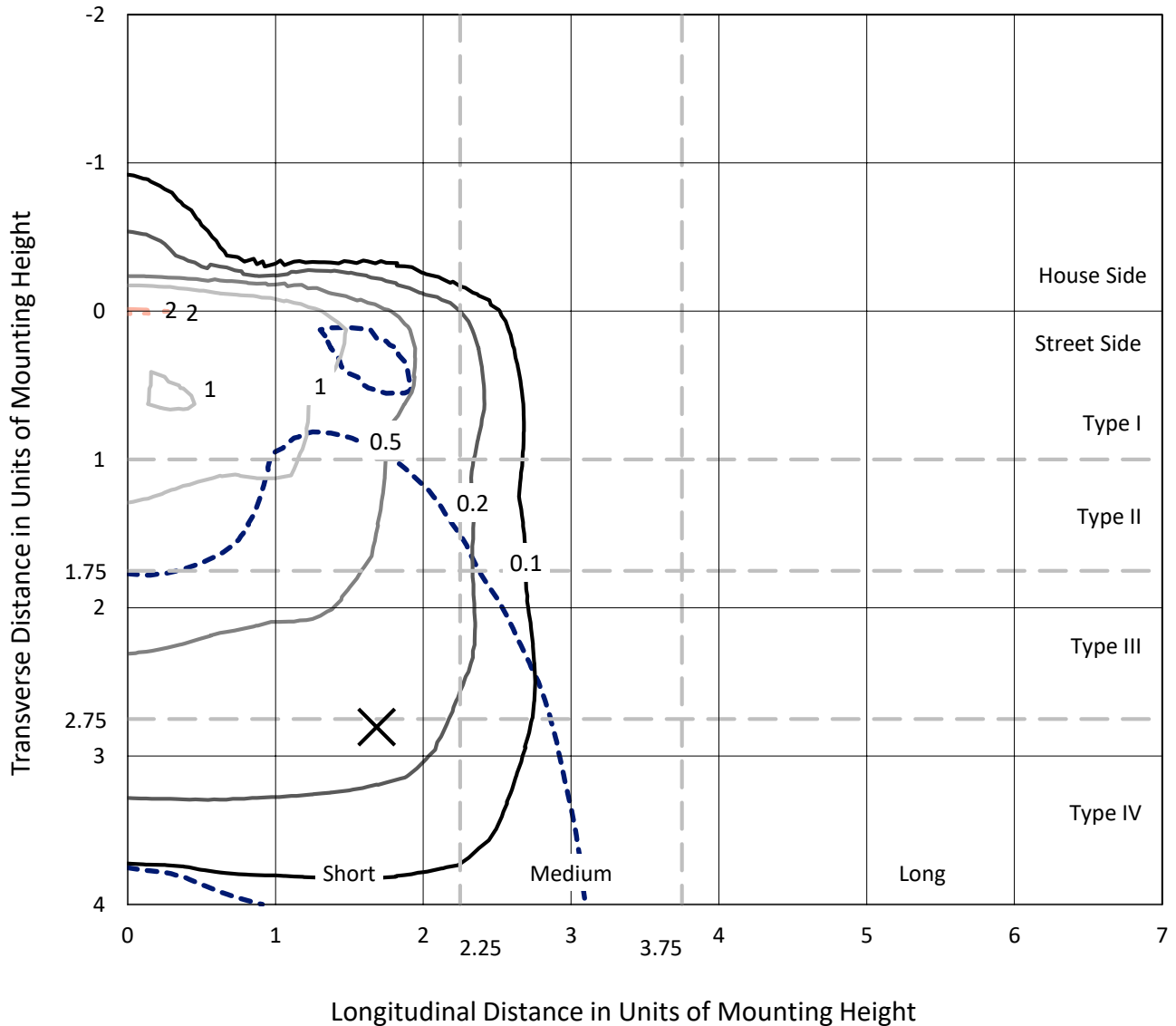
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

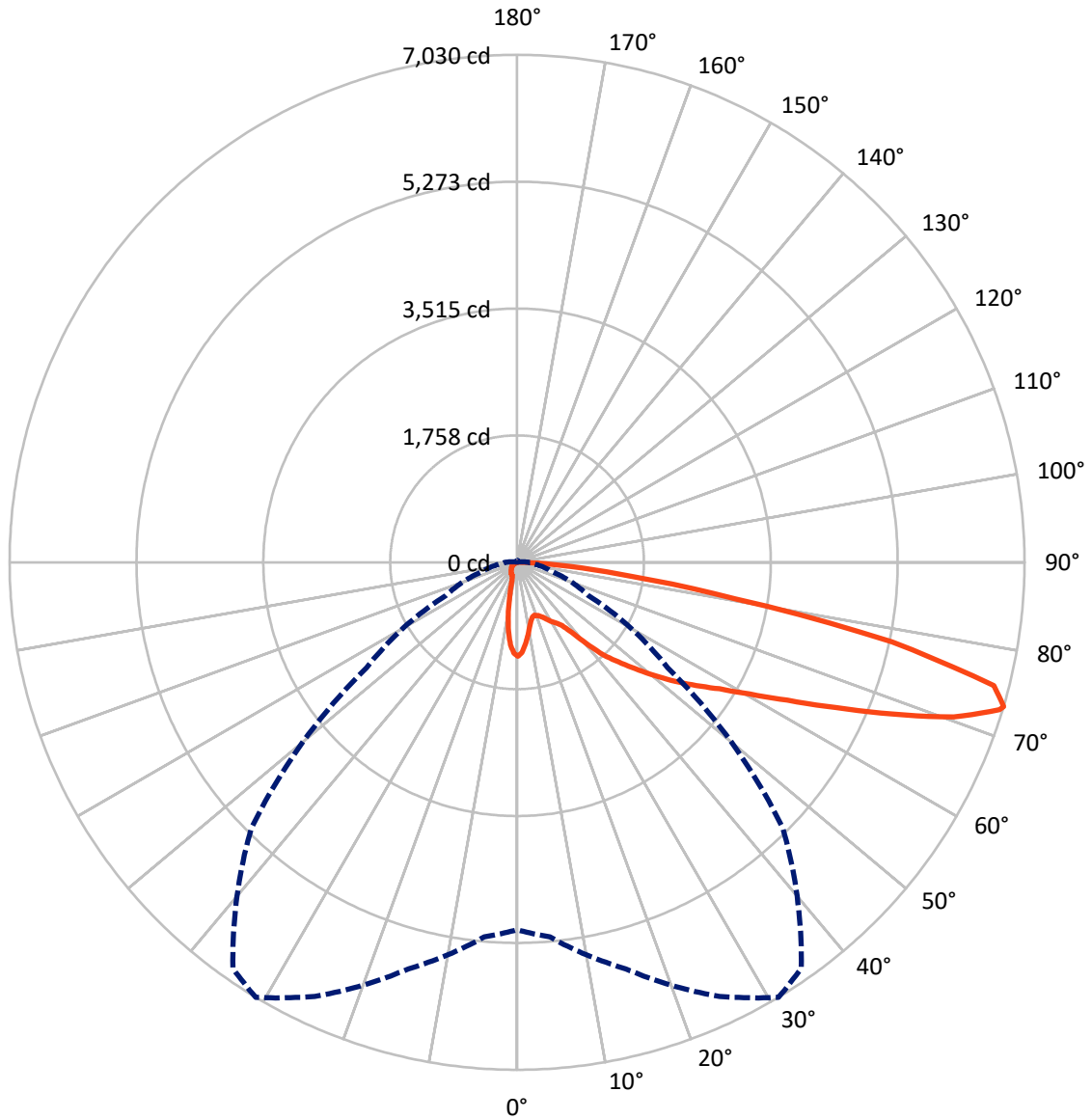
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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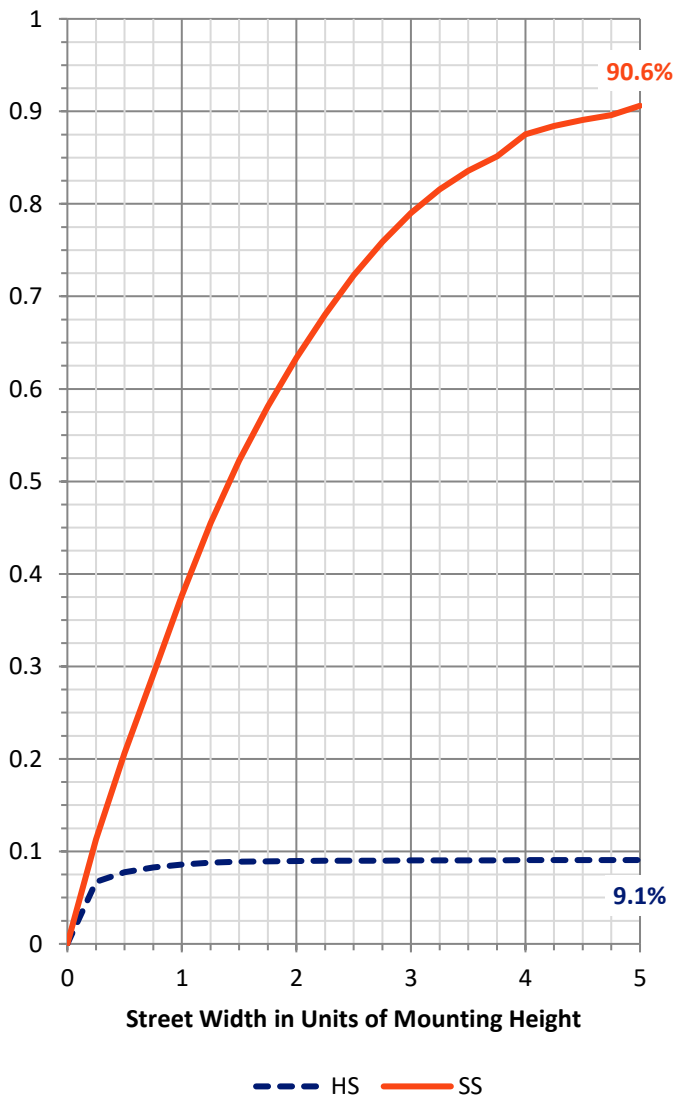
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	689.4	0.0	689.4
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	6873.6	0.0	6873.6
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	7563.0	0.0	7563.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.9	1.4
10°-20°	234.3	3.1
20°-30°	351.0	4.6
30°-40°	558.4	7.4
40°-50°	997.2	13.2
50°-60°	1547.4	20.5
60°-70°	2057.0	27.2
70°-80°	1547.3	20.5
80°-90°	162.6	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°	7563.0	100.0
0°-180°	7563.0	100.0

**Coefficient of Utilization**



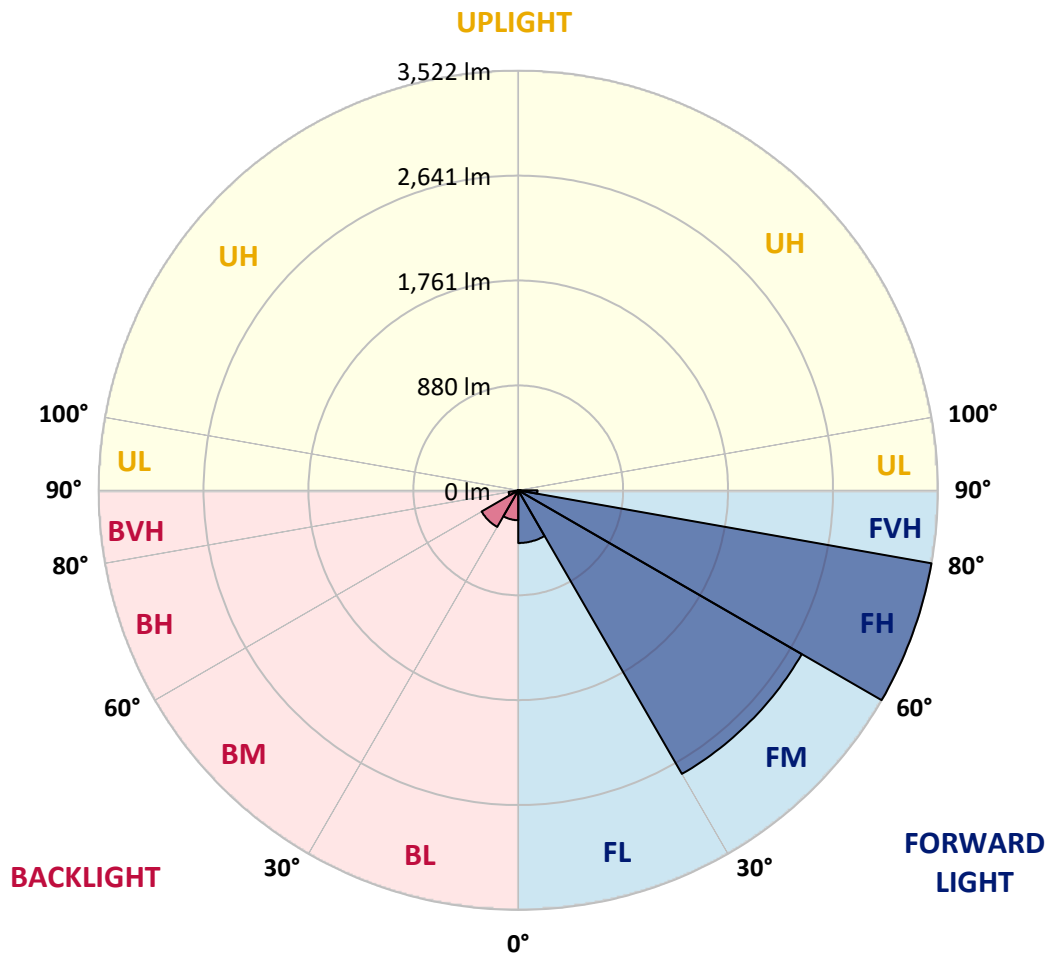
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.4	5.9			
FM (30°-60°)	2748.1	36.3			
FH (60°-80°)	3521.8	46.6			G2/5000
FVH (80°-90°)	161.2	2.1			G2/225
BL (0°-30°)	250.7	3.3	B1/500		
BM (30°-60°)	354.9	4.7	B1/1000		
BH (60°-80°)	82.5	1.1	B0/110		G0/110
BVH (80°-90°)	1.4	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°	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2
2.5°	1233.1	1238.3	1243.9	1245.0	1254.2	1254.6	1267.9	1277.9	1287.9	1297.5	1300.9
5°	1106.6	1115.1	1125.1	1135.1	1154.7	1162.4	1195.0	1228.3	1260.1	1290.5	1305.3
7.5°	971.5	981.1	995.2	1020.0	1041.8	1057.0	1108.4	1167.6	1226.8	1282.7	1314.9
10°	848.2	857.1	871.9	898.2	931.9	952.6	1021.8	1104.0	1190.9	1275.7	1329.4
12.5°	769.8	774.6	782.7	810.9	841.2	864.5	945.9	1047.7	1161.3	1275.3	1352.7
15°	755.3	756.8	750.2	762.8	786.4	809.0	891.5	1002.2	1138.8	1281.2	1383.0
17.5°	778.3	777.6	755.3	753.9	772.7	791.2	864.9	970.7	1122.8	1294.9	1422.2
20°	813.1	810.5	772.0	765.0	785.0	802.4	863.0	958.9	1116.9	1317.9	1470.0
22.5°	859.3	854.9	794.6	787.2	808.6	826.8	886.0	970.4	1122.1	1348.6	1525.5
25°	916.7	910.0	833.4	825.3	847.1	865.3	927.1	1003.3	1137.7	1386.0	1595.8
27.5°	981.5	971.9	895.6	874.5	899.3	918.2	981.8	1053.6	1162.1	1425.6	1682.1
30°	1042.5	1030.0	961.1	926.3	956.7	977.8	1041.1	1113.6	1201.3	1486.6	1800.1
32.5°	1104.0	1089.9	1019.6	978.1	1005.5	1028.5	1102.1	1196.1	1275.0	1579.9	1957.0
35°	1245.3	1230.5	1144.3	1075.8	1075.5	1088.4	1187.6	1309.0	1372.3	1709.8	2144.3
37.5°	1483.3	1474.8	1392.6	1262.7	1228.0	1213.5	1304.2	1443.7	1512.2	1888.6	2355.6
40°	1743.9	1736.5	1644.3	1526.6	1473.7	1438.2	1471.5	1631.3	1709.8	2106.9	2571.4
42.5°	2038.1	2002.9	1838.6	1803.4	1756.1	1729.1	1699.1	1862.7	1952.6	2344.5	2785.3
45°	2305.3	2246.1	2032.9	1979.6	1968.9	1975.5	1992.2	2173.5	2225.7	2626.9	2998.5
47.5°	2464.4	2417.8	2254.2	2203.1	2200.2	2244.2	2370.0	2524.7	2497.7	2873.0	3186.1
50°	2615.8	2573.6	2437.8	2450.4	2464.0	2524.0	2799.0	2885.9	2746.1	3096.2	3358.2
52.5°	2738.3	2673.9	2602.8	2673.5	2740.9	2837.5	3241.6	3210.1	2922.2	3273.8	3505.5
55°	2809.0	2779.7	2814.1	2885.2	3011.8	3168.7	3659.4	3479.9	3051.0	3435.9	3603.5
57.5°	3068.0	3010.7	3079.1	3140.6	3305.6	3525.1	4017.3	3680.9	3143.9	3536.2	3626.1
60°	3381.5	3335.2	3375.6	3477.7	3700.5	3958.5	4351.9	3844.8	3192.4	3600.6	3567.6
62.5°	3880.4	3819.3	3794.1	3908.5	4203.8	4485.5	4605.7	3958.5	3181.6	3572.1	3367.1
65°	4548.8	4485.5	4373.0	4476.6	4852.2	5051.0	4889.6	3982.5	3107.6	3341.5	2860.0
67.5°	5233.4	5187.5	5091.3	5266.0	5605.0	5669.0	5189.7	3924.0	2869.3	2709.4	2020.7
70°	5685.7	5666.0	5728.6	6115.0	6417.3	6398.8	5465.1	3609.8	2236.4	1666.1	999.6
72.5°	5359.6	5453.6	5915.5	6616.1	6985.4	6834.4	5323.7	2772.0	1278.3	641.0	289.0
73°	5089.5	5209.7	5831.5	6634.9	7030.2	6864.8	5204.9	2544.4	1089.5	505.9	219.1
75°	3540.6	3688.3	4827.8	6179.4	6820.7	6540.6	4338.5	1557.3	504.8	224.3	88.5
77.5°	1719.1	1828.2	2658.3	4464.7	5304.5	5110.2	2700.9	580.3	228.0	140.3	40.7
80°	641.7	713.5	1153.9	2272.3	3065.4	3145.7	1188.0	219.5	151.7	112.9	20.7
82.5°	168.0	187.3	425.6	1013.3	1571.0	1644.3	374.5	110.7	111.0	92.9	12.6
85°	53.7	61.4	132.9	454.8	740.2	649.9	97.7	53.7	80.7	69.2	7.0
87.5°	6.7	8.5	42.2	107.0	163.2	90.7	15.2	15.9	34.4	38.5	4.1
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°	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2
2.5°	1304.2	1302.3	1302.7	1293.1	1286.8	1274.2	1261.3	1255.3	1249.0	1246.5	1249.0
5°	1310.9	1307.5	1297.9	1268.3	1236.8	1196.1	1158.0	1129.1	1092.9	1082.9	1093.2
7.5°	1321.2	1314.6	1286.4	1226.1	1156.2	1078.4	991.1	927.4	875.3	841.6	853.8
10°	1336.4	1323.8	1267.2	1164.7	1039.6	901.9	777.9	681.3	612.9	584.7	583.6
12.5°	1361.9	1338.2	1243.5	1084.7	897.1	713.5	551.1	446.3	390.8	354.9	354.2
15°	1390.1	1355.3	1213.5	988.9	731.3	511.1	354.9	275.3	239.4	228.0	226.5
17.5°	1424.5	1374.9	1174.7	870.8	557.7	338.6	231.7	208.7	207.2	206.1	206.1
20°	1467.8	1398.2	1124.7	735.7	395.6	226.1	196.9	198.4	199.1	197.6	198.0
22.5°	1518.1	1421.9	1065.1	590.7	267.6	189.1	188.4	190.2	191.0	190.2	190.6
25°	1576.6	1449.3	992.6	438.6	193.2	179.5	181.3	183.9	185.8	185.8	185.8
27.5°	1649.1	1482.6	905.2	306.1	166.9	169.5	174.7	179.5	182.1	182.8	182.8
30°	1743.5	1524.0	800.5	209.8	151.7	156.2	165.8	175.1	179.9	180.6	181.0
32.5°	1862.7	1570.7	679.1	155.1	138.8	142.1	152.5	168.0	177.3	178.8	178.8
35°	1999.2	1624.7	548.5	135.1	129.5	130.6	138.8	156.5	172.8	176.9	177.3
37.5°	2148.7	1678.0	417.1	126.2	121.8	121.8	127.7	142.9	162.1	174.7	176.2
40°	2288.3	1710.2	292.4	119.2	114.7	114.7	119.9	131.0	149.1	168.0	172.1
42.5°	2417.0	1721.3	203.5	112.5	108.1	109.2	113.6	122.5	136.2	155.1	158.8
45°	2549.5	1719.4	148.4	104.7	101.4	104.7	108.1	114.7	124.7	135.5	136.2
47.5°	2649.5	1703.9	117.7	97.3	95.1	99.6	102.5	107.0	112.5	111.8	111.8
50°	2743.1	1666.1	94.7	87.3	88.8	94.0	95.5	97.0	97.3	90.3	89.6
52.5°	2814.1	1607.3	75.9	76.6	82.5	87.7	86.2	84.0	80.3	71.8	70.3
55°	2837.8	1494.0	59.6	63.3	73.3	79.9	74.4	69.6	62.5	55.5	54.0
57.5°	2794.9	1347.9	48.5	49.2	61.8	67.4	61.1	55.5	47.7	41.8	40.7
60°	2703.9	1185.4	40.0	37.0	47.7	52.6	48.5	42.9	35.9	31.5	31.1
62.5°	2523.3	1012.2	32.9	28.9	36.3	40.3	37.7	33.7	27.8	24.8	24.4
65°	2143.6	809.8	26.6	23.3	28.1	31.5	29.2	26.3	21.8	19.6	19.2
67.5°	1496.3	547.4	21.8	19.2	22.2	24.8	22.9	21.5	17.4	17.0	17.4
70°	721.7	263.9	18.1	15.5	17.4	19.2	18.5	17.4	16.7	19.2	22.2
72.5°	206.9	88.5	14.4	13.0	14.1	15.2	15.9	15.5	18.1	23.3	27.0
73°	159.1	71.4	13.7	12.2	13.3	14.8	15.5	15.2	18.5	23.7	27.0
75°	68.1	34.4	10.4	10.0	11.1	13.0	13.7	13.7	18.5	24.1	25.9
77.5°	30.7	18.5	6.7	7.8	9.6	10.4	11.5	11.5	14.8	18.5	18.5
80°	17.4	10.0	5.2	5.9	7.0	7.0	7.0	6.3	6.7	7.4	8.1
82.5°	11.1	6.7	4.1	4.8	4.4	3.7	3.0	3.0	2.6	3.0	3.7
85°	6.3	3.7	3.7	3.0	1.9	1.5	1.9	1.5	0.4	0.0	0.4
87.5°	3.7	2.2	1.1	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)