

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: P323815

Luminaire Tested: **GAN-SA1D-730-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6005 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

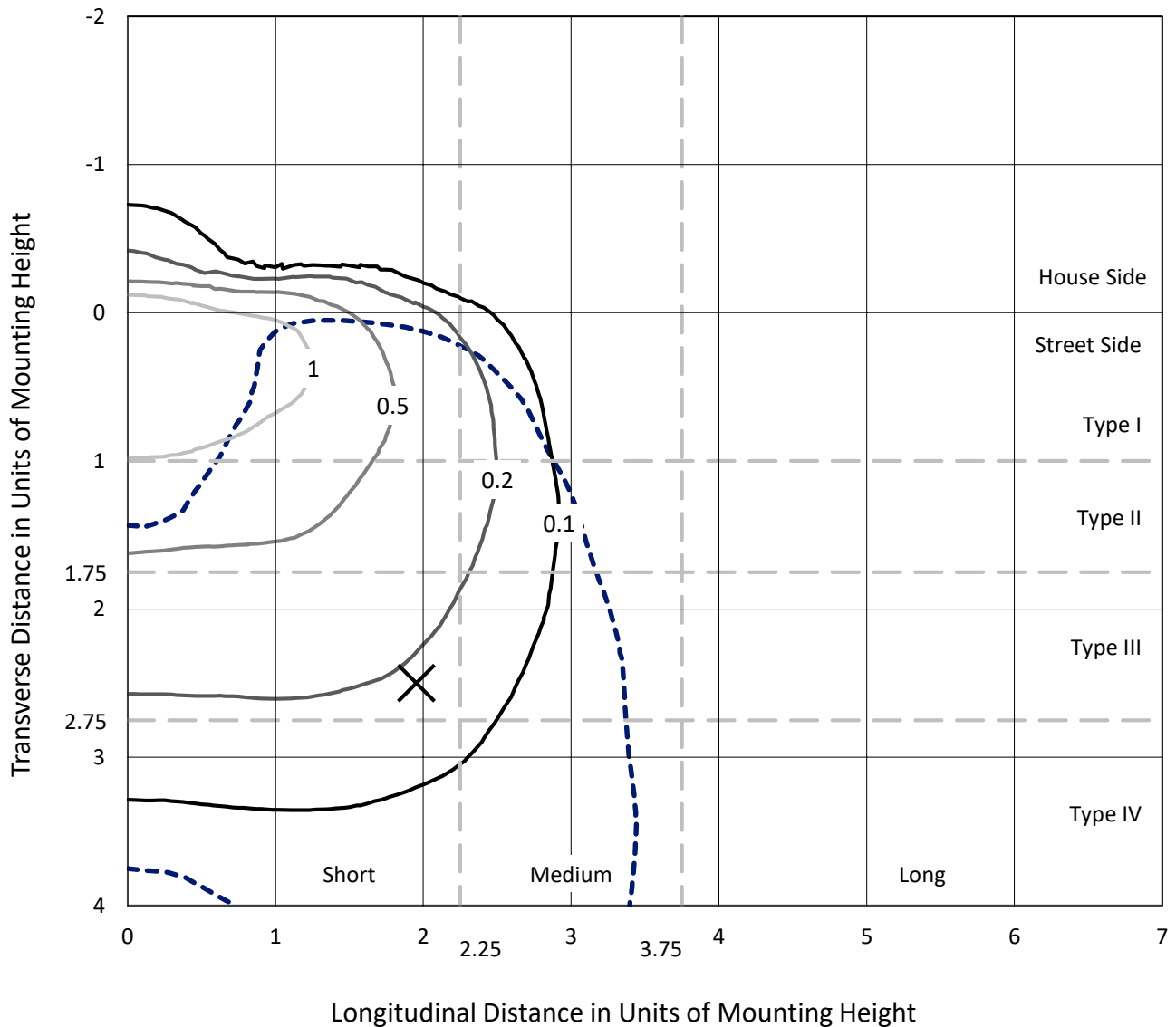
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

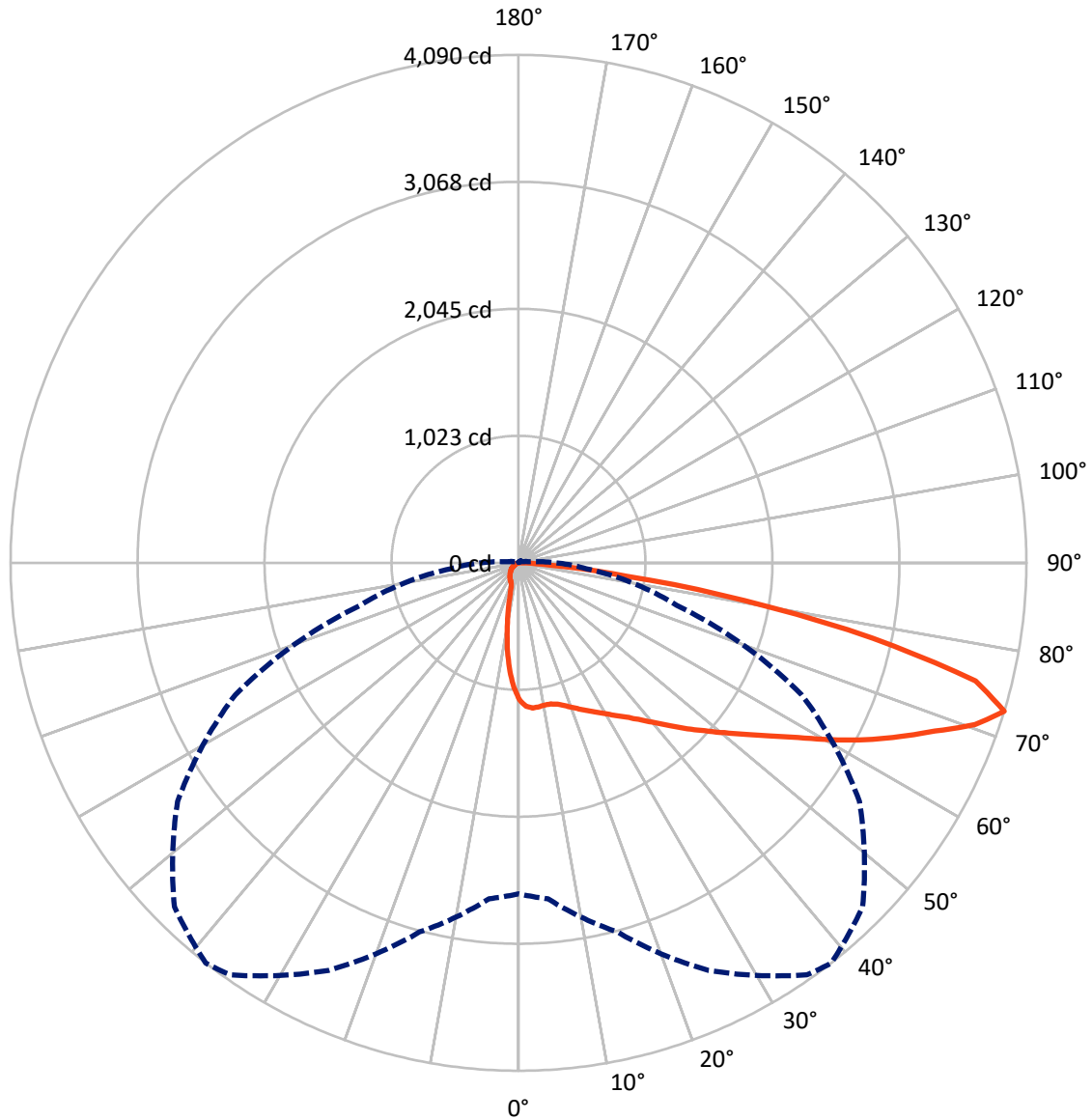
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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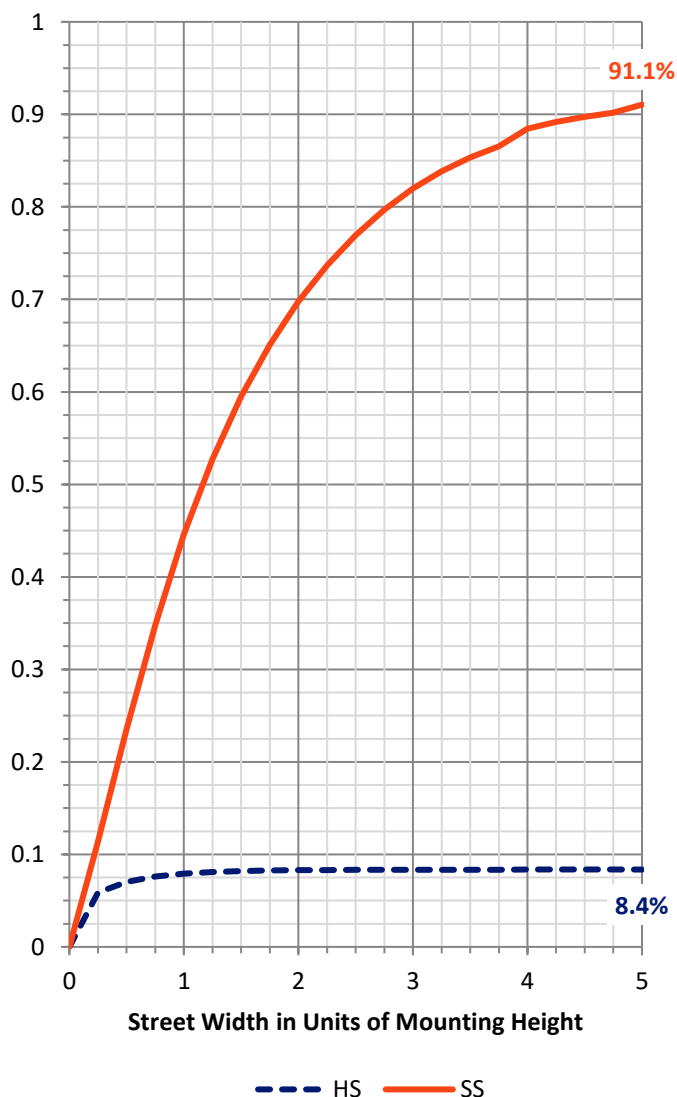
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	505.3	0.0	505.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	5499.7	0.0	5499.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	6005.0	0.0	6005.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.1	1.6
10°-20°	230.1	3.8
20°-30°	366.0	6.1
30°-40°	550.2	9.2
40°-50°	839.4	14.0
50°-60°	1186.4	19.8
60°-70°	1488.1	24.8
70°-80°	1112.7	18.5
80°-90°	138.0	2.3
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°	6005.0	100.0
0°-180°	6005.0	100.0



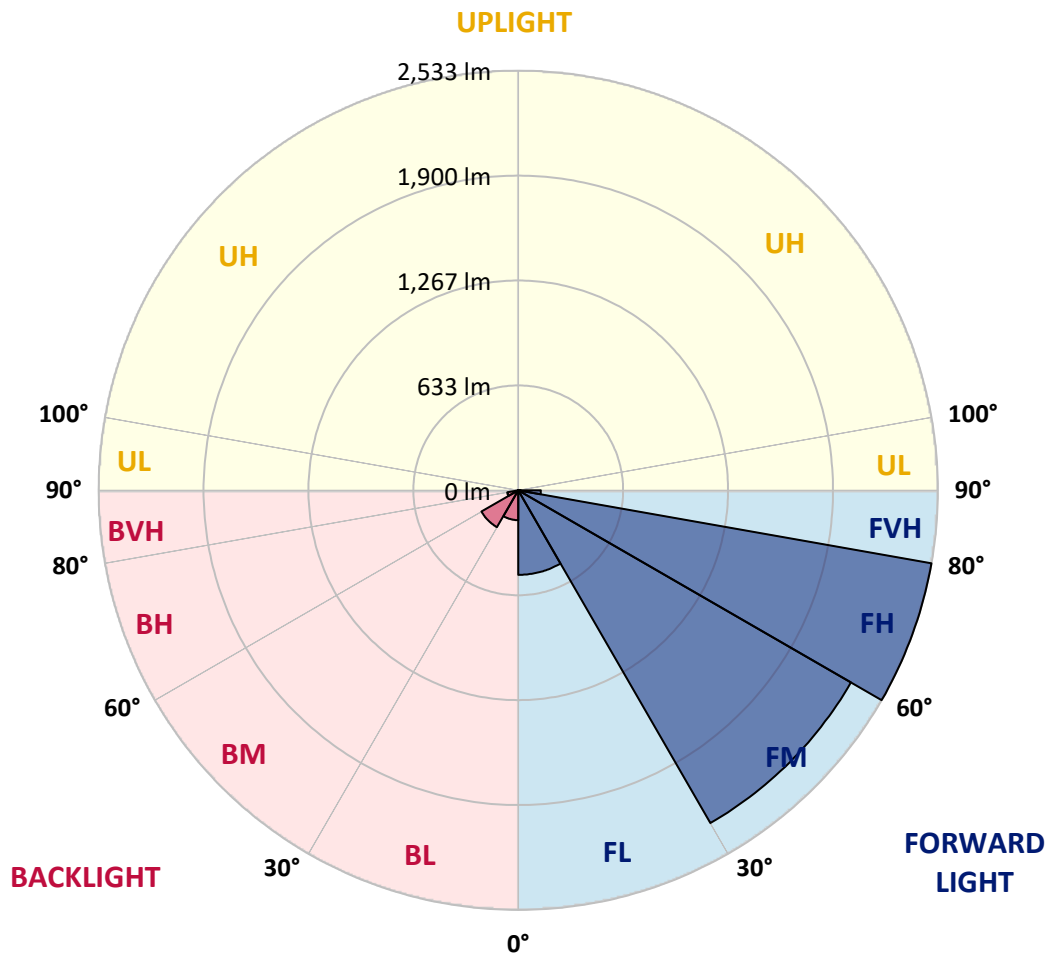
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.3	8.5			
FM (30°-60°)	2319.4	38.6			
FH (60°-80°)	2533.3	42.2			G2/5000
FVH (80°-90°)	136.7	2.3			G2/225
BL (0°-30°)	179.9	3.0	B1/500		
BM (30°-60°)	256.6	4.3	B1/1000		
BH (60°-80°)	67.5	1.1	B0/110		G0/110
BVH (80°-90°)	1.3	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°	35°	38°	45°	55°	65°	75°	85°
0°	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3
2.5°	1172.1	1172.4	1169.6	1165.2	1159.4	1156.4	1151.4	1143.5	1135.0	1119.8	1103.3
5°	1196.1	1196.1	1192.6	1186.6	1177.4	1174.6	1165.2	1152.4	1135.0	1110.3	1082.6
7.5°	1193.6	1194.1	1189.3	1183.1	1173.9	1171.4	1159.9	1145.7	1124.0	1094.1	1058.7
10°	1180.6	1181.9	1178.1	1175.1	1166.6	1163.9	1153.2	1139.0	1117.3	1085.3	1044.7
12.5°	1167.4	1168.6	1169.9	1172.6	1167.4	1166.4	1157.9	1145.9	1125.2	1092.1	1046.2
15°	1158.9	1161.4	1170.4	1181.1	1182.4	1181.4	1175.9	1164.7	1143.7	1109.3	1056.9
17.5°	1158.9	1162.9	1181.6	1202.1	1209.3	1210.0	1205.3	1189.6	1164.7	1127.7	1066.9
20°	1168.6	1174.1	1203.3	1232.2	1244.2	1244.2	1235.0	1213.0	1183.9	1144.5	1073.6
22.5°	1193.6	1200.8	1237.5	1270.9	1283.6	1280.9	1268.4	1236.5	1203.8	1163.4	1082.1
25°	1242.7	1248.2	1286.4	1320.0	1327.8	1321.5	1305.8	1264.9	1229.2	1189.1	1097.6
27.5°	1306.1	1306.8	1346.2	1374.6	1369.9	1365.7	1346.0	1300.6	1265.9	1225.8	1124.3
30°	1375.6	1375.6	1410.3	1432.0	1417.5	1414.0	1394.3	1343.7	1312.8	1275.6	1162.2
32.5°	1443.0	1446.0	1474.1	1487.9	1471.7	1468.2	1449.0	1398.3	1375.1	1351.7	1221.3
35°	1508.1	1510.3	1537.0	1544.5	1529.0	1530.0	1516.3	1473.4	1464.7	1461.7	1310.3
37.5°	1571.2	1571.7	1598.8	1603.6	1595.8	1604.3	1605.6	1567.7	1583.9	1608.1	1435.7
40°	1628.8	1629.3	1656.2	1668.4	1681.6	1692.6	1702.3	1682.1	1735.8	1791.9	1585.1
42.5°	1674.9	1680.1	1714.3	1737.5	1772.4	1793.4	1819.8	1818.8	1916.6	2000.9	1765.7
45°	1715.6	1724.5	1772.2	1812.8	1872.7	1906.1	1947.5	1979.9	2120.1	2233.5	1948.5
47.5°	1769.2	1777.7	1832.0	1898.6	1978.4	2022.3	2090.9	2161.0	2343.8	2462.0	2127.0
50°	1844.7	1841.0	1894.6	1990.1	2092.6	2150.2	2248.0	2353.0	2565.7	2661.0	2232.0
52.5°	1925.3	1923.8	1963.4	2089.6	2227.3	2294.6	2423.8	2551.5	2778.0	2798.2	2280.2
55°	2025.0	2014.3	2047.7	2203.1	2387.2	2459.5	2611.6	2748.0	2947.0	2875.5	2304.4
57.5°	2129.5	2111.8	2143.8	2329.6	2567.5	2653.0	2819.6	2939.6	3059.5	2928.3	2304.1
60°	2237.5	2216.6	2254.5	2487.7	2791.4	2890.4	3045.1	3069.0	3164.5	2955.0	2287.2
62.5°	2327.8	2315.3	2371.7	2656.8	3041.6	3138.8	3215.4	3186.7	3253.0	2975.7	2247.5
65°	2423.3	2424.1	2515.1	2854.0	3307.4	3373.0	3379.5	3339.3	3327.1	2971.5	2113.3
67.5°	2552.5	2564.5	2716.4	3121.9	3566.0	3616.7	3616.2	3504.7	3381.2	2802.9	1815.8
70°	2689.2	2717.4	2948.3	3428.4	3848.3	3899.7	3873.3	3609.9	3183.7	2266.5	1285.1
72.5°	2666.2	2715.1	3077.2	3621.6	4051.1	4090.2	3918.4	3351.3	2516.3	1317.3	547.2
75°	2057.0	2113.6	2821.6	3430.1	3838.4	3803.2	3366.8	2607.9	1375.1	367.6	123.2
77.5°	1086.6	1116.8	1863.9	2613.1	2992.9	2919.4	2371.7	1446.7	419.2	91.0	55.4
80°	569.1	576.1	812.3	1482.6	1847.2	1847.7	1405.6	635.4	172.8	46.6	37.2
82.5°	304.8	310.7	429.2	685.1	967.9	877.4	538.2	349.6	100.5	26.4	35.7
85°	73.3	74.6	243.4	313.0	380.6	271.8	159.9	293.5	27.2	15.5	28.9
87.5°	28.2	28.7	90.3	135.4	97.0	62.8	74.8	109.5	3.5	6.0	4.5
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°	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3	1104.3
2.5°	1093.3	1086.8	1070.9	1050.7	1032.7	1019.8	1000.3	987.6	979.1	978.9	975.6
5°	1065.6	1052.4	1018.0	977.1	940.0	906.5	867.1	836.0	812.8	809.0	801.0
7.5°	1036.0	1014.3	961.4	897.6	835.2	771.9	698.3	652.7	613.5	594.8	592.8
10°	1017.8	987.3	912.3	820.0	722.2	619.2	523.0	456.4	408.3	394.5	384.3
12.5°	1014.0	973.9	874.4	747.2	607.5	471.3	364.9	294.0	255.6	243.4	240.2
15°	1017.8	967.6	842.4	675.1	491.3	334.4	244.9	203.8	189.3	185.8	185.5
17.5°	1020.0	960.2	806.3	595.0	378.6	238.9	187.5	175.6	173.3	173.1	173.6
20°	1019.8	948.7	763.1	505.8	281.6	187.8	169.6	167.1	166.6	166.8	166.6
22.5°	1018.0	935.2	715.7	413.7	212.7	167.8	161.9	160.4	160.1	160.1	160.1
25°	1021.3	924.5	663.6	325.7	175.3	158.6	154.9	153.6	153.4	153.4	152.9
27.5°	1033.0	918.5	606.5	250.6	158.4	150.4	147.4	147.1	146.4	146.1	146.6
30°	1051.9	918.5	543.9	195.0	148.1	141.9	139.7	139.2	138.9	138.7	138.9
32.5°	1085.3	925.5	475.6	162.1	138.4	132.4	130.9	131.7	130.9	130.9	130.9
35°	1145.7	946.4	404.0	141.4	128.2	123.2	121.7	122.7	122.2	122.2	122.0
37.5°	1233.7	985.3	331.9	128.9	119.2	114.0	112.0	113.5	113.0	113.0	112.7
40°	1341.0	1042.0	263.4	119.5	110.5	105.0	103.2	104.0	102.7	102.7	103.2
42.5°	1473.4	1113.8	203.5	110.2	101.8	96.5	95.5	94.8	92.5	91.3	91.5
45°	1620.5	1188.6	158.6	101.3	93.5	89.3	87.8	85.8	82.0	79.6	79.8
47.5°	1752.0	1246.2	128.9	92.5	86.0	82.8	80.6	76.8	71.3	68.3	68.6
50°	1821.0	1254.9	109.7	83.8	79.1	75.8	72.6	66.8	60.4	57.1	56.9
52.5°	1838.8	1214.0	95.5	75.8	72.1	68.3	64.1	56.4	49.1	45.6	45.1
55°	1845.2	1151.7	82.8	68.3	64.6	60.4	54.9	46.1	39.4	35.9	35.7
57.5°	1823.8	1058.7	72.8	61.6	57.1	51.9	45.1	36.9	30.4	27.7	27.7
60°	1776.2	932.7	65.1	54.4	49.4	43.4	36.4	28.7	22.7	20.4	20.4
62.5°	1681.1	769.6	57.9	46.9	42.1	35.9	29.4	21.7	16.0	14.7	15.0
65°	1501.8	583.8	50.6	40.2	35.9	29.7	22.9	15.5	10.7	10.7	11.2
67.5°	1224.8	405.5	43.1	34.2	30.9	24.2	17.5	10.7	7.5	8.5	9.5
70°	810.8	227.4	36.9	28.2	26.4	19.2	13.0	7.2	6.0	8.0	9.7
72.5°	306.0	88.5	30.9	22.7	22.9	14.7	9.2	5.5	5.5	8.7	11.5
75°	85.3	43.4	22.2	16.7	18.0	10.7	6.7	4.7	5.2	10.0	13.5
77.5°	50.1	31.9	14.5	9.7	12.2	7.5	4.5	3.7	4.5	8.5	13.0
80°	40.4	17.0	8.5	5.0	6.7	4.2	3.0	2.2	1.2	3.2	6.7
82.5°	40.4	10.2	4.0	3.5	3.5	2.2	1.5	1.0	0.2	0.0	1.7
85°	27.2	4.2	2.5	2.2	1.7	0.7	0.5	0.2	0.0	0.0	0.0
87.5°	4.5	1.7	1.0	0.5	0.2	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)