

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: P321575

Luminaire Tested: **GAN-SA1D-730-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321575  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5691 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

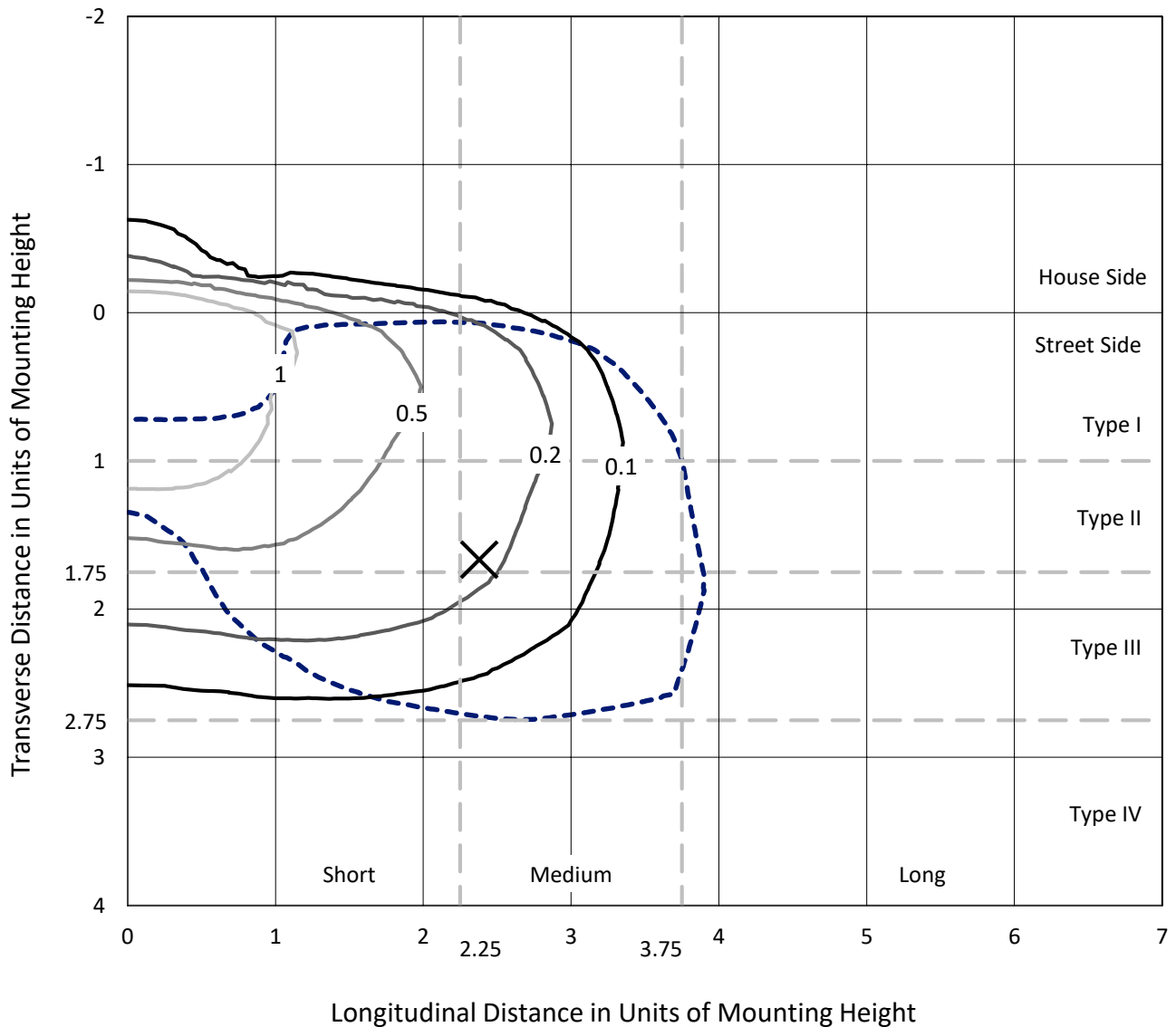
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P321575  
 CATALOG NUMBER: GAN-SA1D-730-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

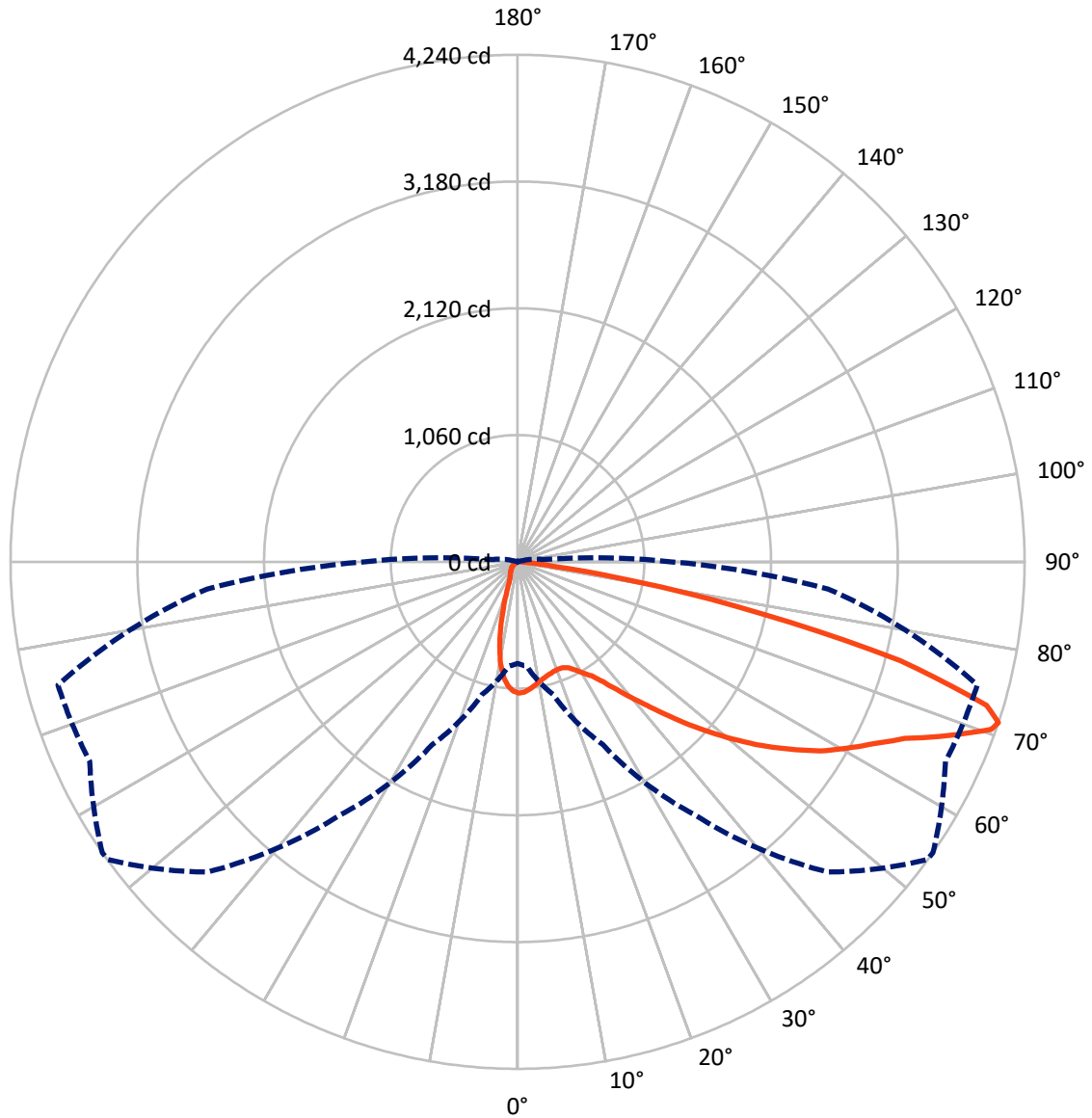
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Medium - N/A

REPORT NUMBER: P321575  
CATALOG NUMBER: GAN-SA1D-730-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P321575  
 CATALOG NUMBER: GAN-SA1D-730-U-T3R-HSS

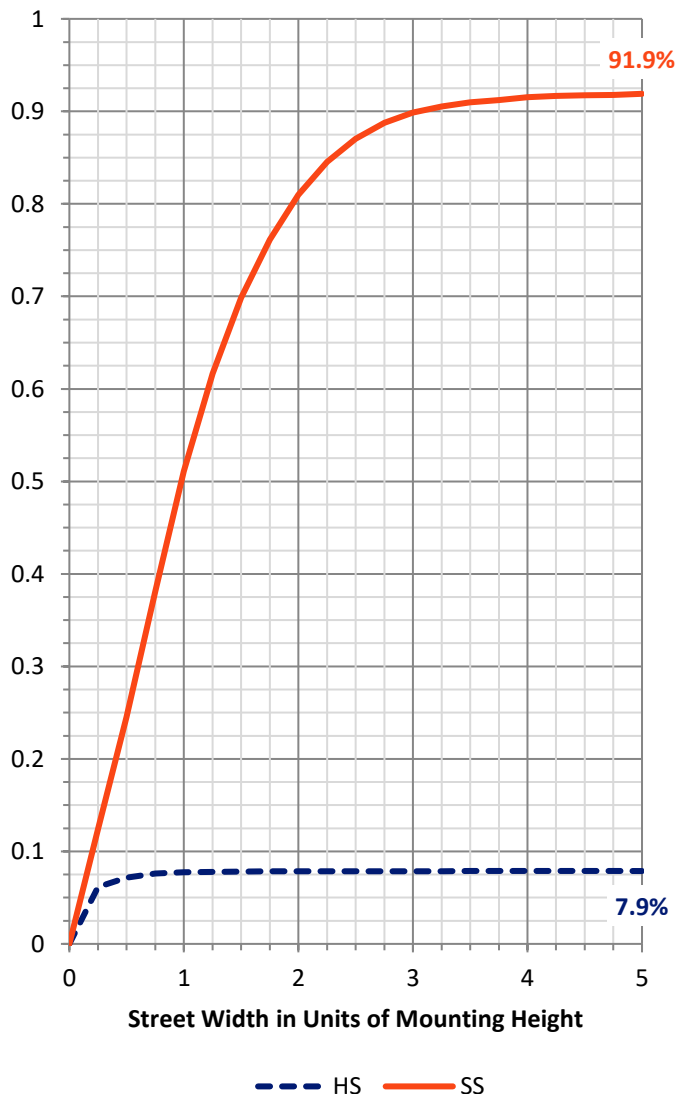
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	450.6	0.0	450.6
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	5240.4	0.0	5240.4
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	5691.0	0.0	5691.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.6	1.6
10°-20°	211.3	3.7
20°-30°	339.5	6.0
30°-40°	576.8	10.1
40°-50°	895.3	15.7
50°-60°	1203.7	21.2
60°-70°	1472.6	25.9
70°-80°	861.0	15.1
80°-90°	37.2	0.7
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°	5691.0	100.0
0°-180°	5691.0	100.0

**Coefficient of Utilization**

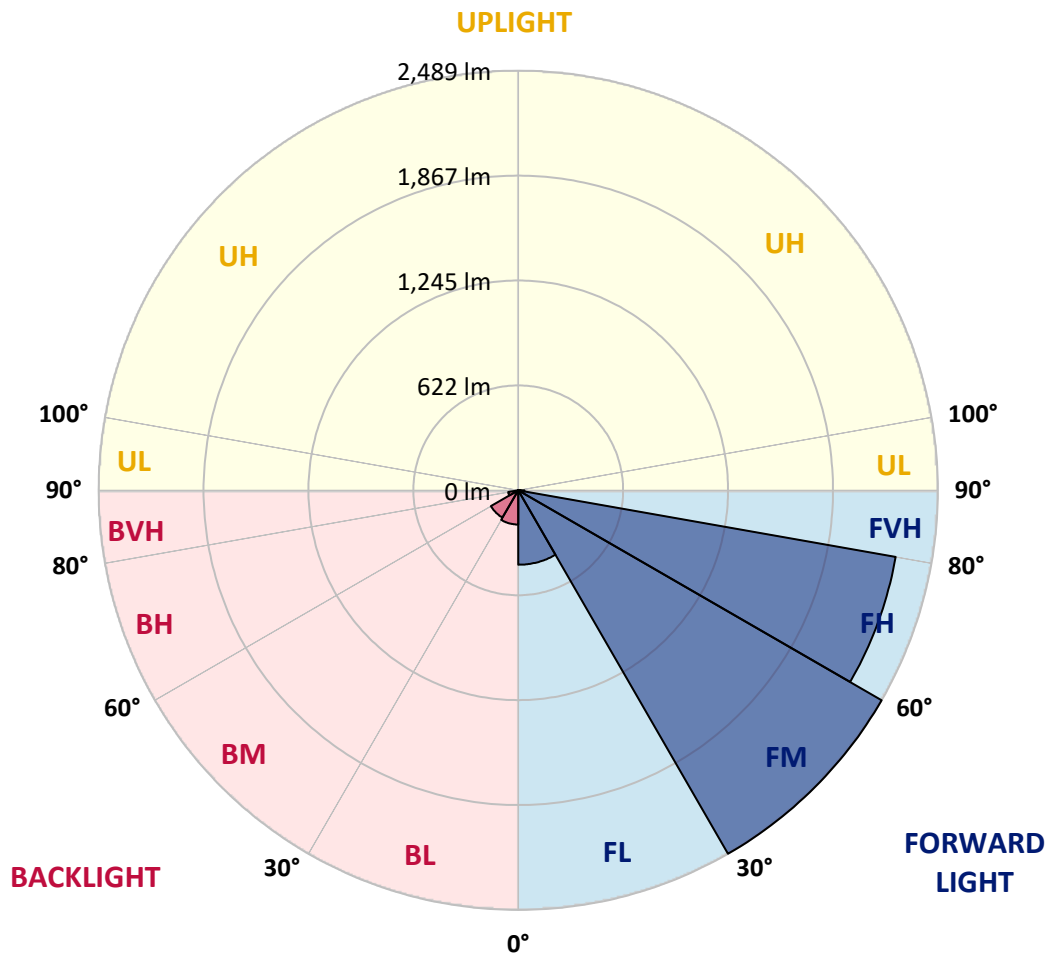


REPORT NUMBER: P321575  
 CATALOG NUMBER: GAN-SA1D-730-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.5	7.8			
FM (30°-60°)	2489.1	43.7			
FH (60°-80°)	2273.2	39.9			G2/5000
FVH (80°-90°)	36.6	0.6			G1/100
BL (0°-30°)	202.8	3.6	B1/500		
BM (30°-60°)	186.8	3.3	B0/220		
BH (60°-80°)	60.4	1.1	B0/110		G0/110
BVH (80°-90°)	0.6	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 Medium





REPORT NUMBER: P321575

CATALOG NUMBER: GAN-SA1D-730-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5
2.5°	1065.3	1066.6	1071.2	1073.3	1078.1	1086.3	1090.4	1090.6	1097.3	1099.8	1101.9
5°	989.9	997.6	1005.3	1013.5	1028.3	1048.0	1067.4	1069.2	1090.6	1106.5	1114.9
7.5°	925.0	931.9	941.1	954.2	975.1	1006.0	1038.5	1042.3	1083.0	1119.0	1137.9
10°	858.3	864.0	877.3	896.4	925.3	966.7	1010.4	1016.8	1076.1	1135.9	1169.1
12.5°	787.1	790.4	806.5	834.1	876.5	929.1	986.6	995.1	1071.7	1155.3	1205.9
15°	732.9	734.4	749.7	778.4	826.9	895.4	968.2	978.4	1072.7	1178.5	1246.0
17.5°	719.1	719.8	728.0	747.7	790.6	865.2	953.7	966.2	1075.8	1201.3	1286.4
20°	775.0	769.7	761.2	758.2	776.6	847.1	945.0	959.0	1079.9	1221.5	1322.7
22.5°	928.6	912.8	877.8	831.0	802.6	848.4	947.3	961.3	1092.9	1246.3	1364.6
25°	1156.6	1134.6	1075.0	983.0	894.6	885.2	966.4	980.7	1118.2	1275.9	1404.7
27.5°	1415.9	1394.2	1321.4	1190.0	1039.3	958.0	1010.4	1023.7	1155.8	1302.2	1435.3
30°	1664.3	1658.2	1572.3	1423.1	1221.2	1076.1	1067.1	1078.4	1183.6	1318.1	1459.6
32.5°	1874.9	1865.2	1796.2	1651.0	1429.5	1217.9	1133.8	1137.1	1204.6	1338.5	1491.3
35°	2070.1	2058.1	1997.5	1860.3	1643.1	1391.1	1236.5	1231.7	1250.3	1379.6	1537.3
37.5°	2240.5	2251.5	2184.3	2053.7	1834.8	1571.3	1375.0	1360.5	1321.9	1446.6	1604.0
40°	2383.1	2383.1	2348.1	2239.3	2041.7	1757.6	1531.7	1512.5	1429.5	1549.8	1688.6
42.5°	2434.5	2445.5	2458.5	2396.9	2227.0	1951.3	1706.2	1686.3	1581.0	1696.3	1795.4
45°	2437.6	2454.9	2521.6	2521.4	2394.4	2143.7	1903.0	1893.5	1775.2	1884.3	1927.8
47.5°	2394.4	2416.1	2526.0	2588.3	2527.0	2322.8	2118.1	2106.4	2003.4	2114.8	2066.3
50°	2327.7	2351.7	2479.5	2614.7	2617.2	2478.7	2344.8	2327.2	2254.6	2378.3	2209.4
52.5°	2208.3	2254.9	2437.8	2620.8	2676.5	2613.4	2560.5	2552.8	2535.7	2632.0	2323.3
55°	1953.1	2004.7	2333.3	2622.8	2731.4	2732.7	2762.6	2764.7	2799.1	2869.2	2408.2
57.5°	1832.5	1861.6	2150.9	2632.5	2812.9	2868.1	2968.6	2984.4	3037.8	3094.3	2505.0
60°	1756.6	1791.1	2060.9	2619.3	2941.0	3045.7	3159.5	3164.8	3222.1	3326.6	2636.1
62.5°	1696.0	1730.0	2004.2	2568.1	3084.8	3259.4	3346.0	3346.5	3389.4	3603.3	2785.1
65°	1546.5	1575.1	1889.4	2510.6	3179.9	3470.7	3562.7	3559.4	3594.4	3895.1	2958.1
67.5°	1330.3	1352.3	1655.1	2292.7	3144.1	3662.9	3889.8	3878.8	3836.4	4147.4	3026.1
70°	1028.5	1036.5	1304.5	1910.6	2808.9	3736.7	4205.9	4200.3	3984.8	4102.1	2776.9
71°	850.2	876.2	1149.7	1686.3	2584.2	3668.5	4236.5	4239.9	3947.5	3979.0	2605.5
72.5°	493.7	515.9	833.3	1295.1	2194.0	3383.8	4077.6	4101.6	3773.3	3619.2	2225.5
75°	105.8	113.2	308.9	626.8	1206.9	2371.6	3218.5	3304.1	3075.4	2462.1	1341.3
77.5°	73.6	79.5	132.4	284.4	398.9	1171.9	1999.3	2095.9	1837.3	925.3	429.3
80°	58.3	64.9	103.2	140.5	107.8	377.9	936.5	995.6	612.8	206.5	72.3
82.5°	32.5	38.6	80.5	75.9	41.4	71.8	262.2	296.4	122.7	41.7	17.1
85°	9.5	11.5	51.9	55.2	17.6	13.8	44.7	55.5	23.3	11.0	7.7
87.5°	0.0	0.0	25.0	21.2	5.1	2.0	4.1	4.6	4.6	4.6	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321575

CATALOG NUMBER: GAN-SA1D-730-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5
2.5°	1101.9	1103.7	1097.3	1088.8	1079.9	1068.9	1057.4	1048.5	1048.2	1043.9	1039.5
5°	1115.4	1114.4	1096.8	1069.9	1038.2	1005.3	973.9	938.3	926.6	912.0	907.2
7.5°	1140.5	1133.3	1096.0	1037.2	967.7	898.7	827.4	755.6	725.0	697.4	692.5
10°	1171.9	1158.3	1091.1	988.2	860.6	733.4	625.8	528.2	485.3	452.3	450.8
12.5°	1204.6	1183.9	1077.6	914.1	720.4	541.5	417.5	321.5	285.7	262.7	264.7
15°	1238.8	1207.9	1048.5	814.1	560.6	367.5	256.6	200.1	185.8	179.9	181.4
17.5°	1273.9	1224.5	1007.8	693.8	403.0	237.1	177.6	161.8	161.8	163.0	163.5
20°	1304.3	1233.5	948.0	558.9	273.2	172.7	155.4	153.1	154.3	156.4	156.6
22.5°	1334.4	1234.0	870.1	422.1	191.1	151.3	148.0	146.9	147.7	150.0	150.3
25°	1358.9	1227.9	772.5	300.3	152.6	142.6	141.1	140.5	141.1	143.9	143.9
27.5°	1368.9	1205.6	653.4	211.1	136.7	132.9	132.4	132.9	133.6	135.7	135.9
30°	1369.9	1166.8	523.6	152.8	123.9	119.8	120.9	122.7	121.9	121.4	121.9
32.5°	1372.5	1121.8	397.1	125.7	113.2	106.8	105.5	105.5	102.5	100.7	99.7
35°	1380.9	1068.9	288.0	112.9	102.2	94.8	89.9	84.3	78.4	75.4	74.6
37.5°	1394.2	1013.5	206.2	104.5	92.5	84.1	74.9	64.9	56.5	54.2	54.2
40°	1418.5	956.2	152.6	97.9	84.8	74.4	60.6	47.5	39.9	38.6	38.6
42.5°	1456.8	895.9	121.6	92.0	78.2	64.4	46.3	34.5	28.9	28.1	27.9
45°	1496.7	829.5	106.3	86.4	71.0	52.9	34.2	25.6	22.2	21.5	21.5
47.5°	1536.5	758.7	98.9	81.0	64.1	41.1	25.6	20.2	18.7	18.7	18.9
50°	1570.3	684.8	93.5	75.1	55.2	31.2	20.2	17.1	16.6	17.6	17.9
52.5°	1578.7	612.3	86.9	67.7	44.2	23.8	16.6	15.1	15.1	15.1	15.1
55°	1573.6	556.0	78.2	58.5	32.7	18.9	14.3	13.3	13.0	13.0	13.0
57.5°	1591.0	522.8	62.6	45.5	23.5	15.3	12.5	11.8	11.2	11.0	11.0
60°	1626.0	501.1	44.7	32.7	17.6	12.8	10.7	10.0	9.2	8.7	8.7
62.5°	1672.5	482.2	33.2	24.3	13.5	10.2	8.9	8.2	7.2	6.6	6.6
65°	1708.3	448.5	25.3	18.1	10.2	8.2	6.9	6.6	5.1	4.6	4.3
67.5°	1653.6	374.4	20.4	13.3	7.7	6.4	5.4	5.1	3.1	2.6	2.6
70°	1418.2	260.6	16.4	9.7	5.6	5.1	4.3	3.3	2.3	2.0	2.0
71°	1286.1	217.7	14.8	8.2	4.9	4.9	4.1	2.8	2.0	1.8	1.8
72.5°	1068.4	154.6	12.5	6.4	4.3	5.1	4.3	2.6	2.0	1.8	1.5
75°	620.2	64.7	8.7	4.3	3.3	6.1	5.6	2.3	1.5	1.3	1.3
77.5°	186.5	23.8	4.9	2.8	2.6	5.4	6.4	2.0	0.8	0.3	0.3
80°	34.0	10.2	3.1	1.8	1.8	3.3	4.9	1.0	0.0	0.0	0.0
82.5°	12.0	5.1	1.8	1.0	0.8	1.5	2.3	0.0	0.0	0.0	0.0
85°	6.9	3.6	1.0	0.5	0.0	0.3	0.5	0.0	0.0	0.0	0.0
87.5°	4.6	1.0	0.0	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)