

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: P322216

Luminaire Tested: **GAN-SA2D-730-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322216  
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-SA2D-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA 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: 10535 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

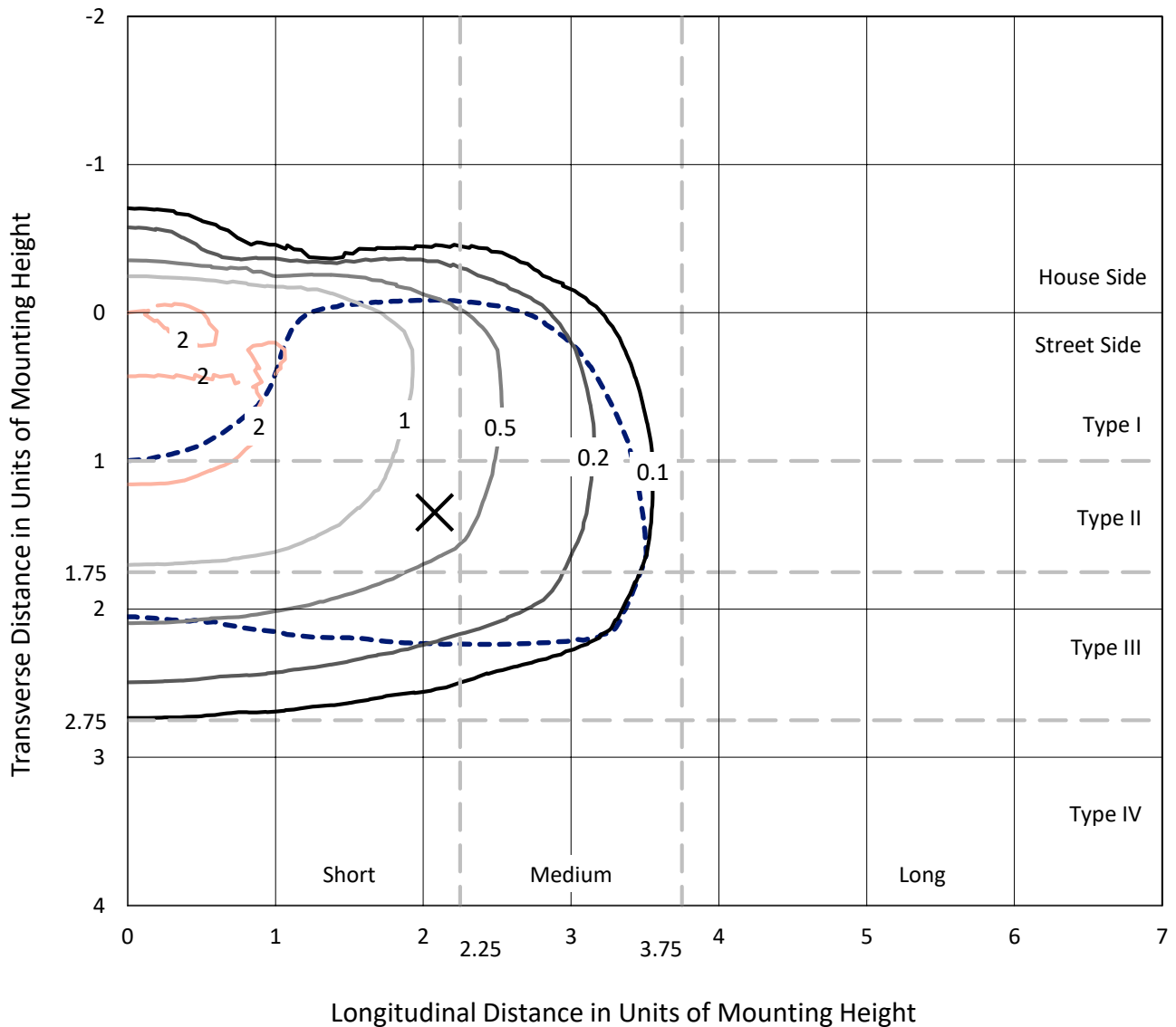
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

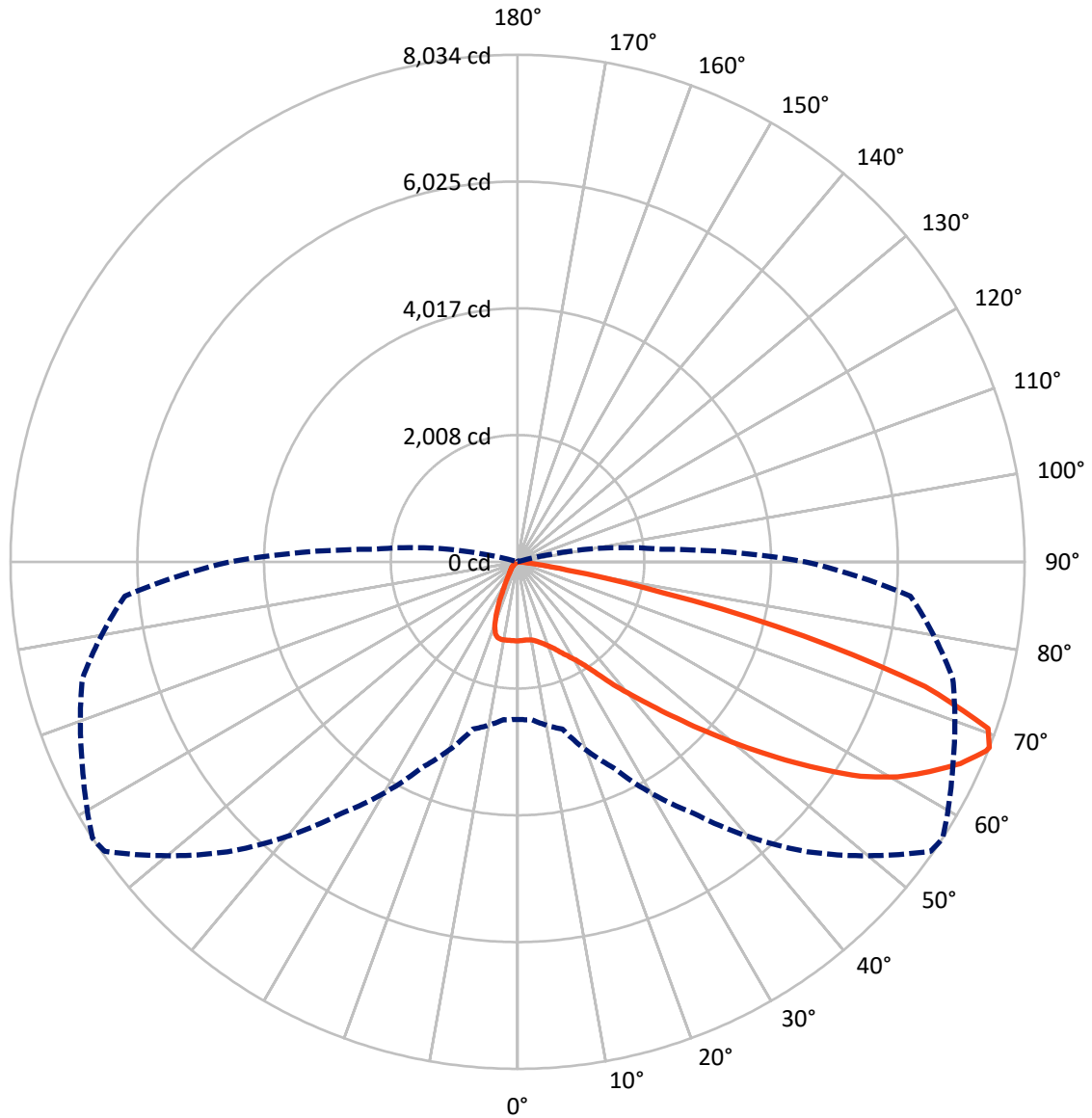
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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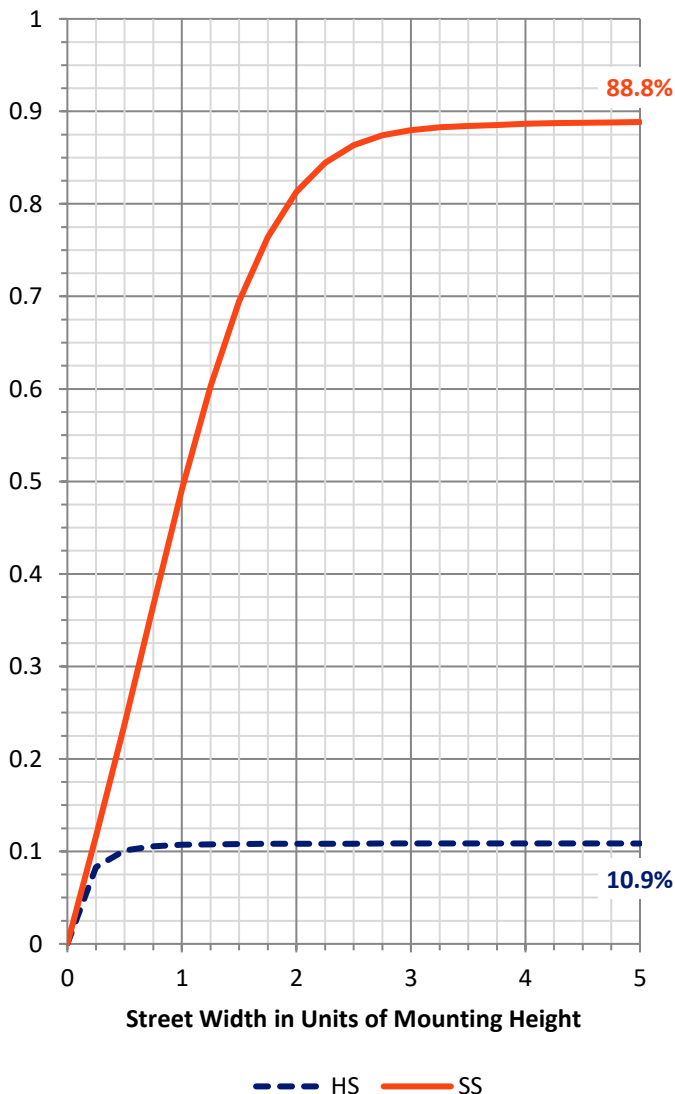
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1155.2	0.0	1155.2
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	9379.8	0.0	9379.8
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	10535.0	0.0	10535.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.2	1.1
10°-20°	324.6	3.1
20°-30°	560.0	5.3
30°-40°	966.6	9.2
40°-50°	1653.4	15.7
50°-60°	2645.3	25.1
60°-70°	3056.3	29.0
70°-80°	1167.9	11.1
80°-90°	43.8	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°	10535.0	100.0
0°-180°	10535.0	100.0

**Coefficient of Utilization**



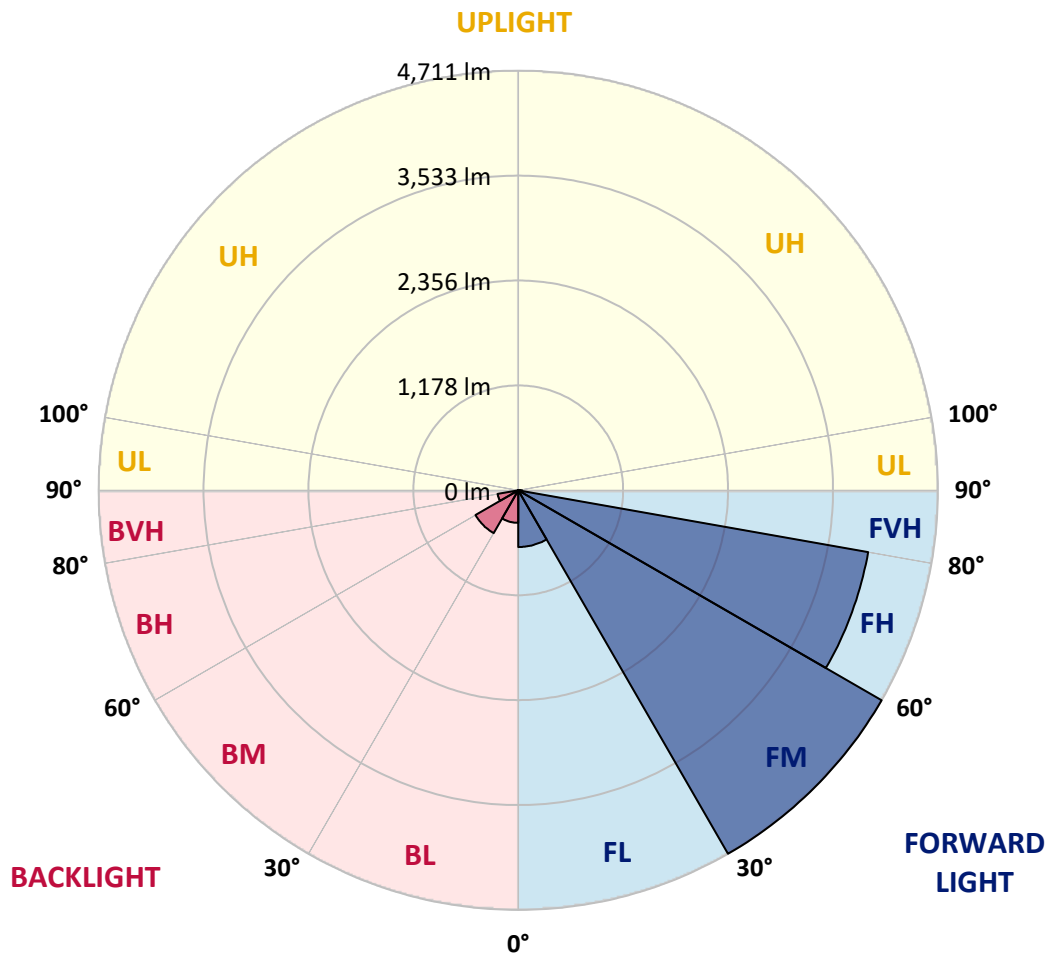
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.7	6.0			
FM (30°-60°)	4711.2	44.7			
FH (60°-80°)	3988.9	37.9			G2/5000
FVH (80°-90°)	43.0	0.4			G1/100
BL (0°-30°)	365.1	3.5	B1/500		
BM (30°-60°)	554.1	5.3	B1/1000		
BH (60°-80°)	235.3	2.2	B1/500		G1/500
BVH (80°-90°)	0.8	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°	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8
2.5°	1222.4	1227.9	1231.9	1234.4	1237.4	1243.9	1245.9	1248.8	1250.3	1250.3	1253.8
5°	1174.1	1180.1	1188.6	1195.5	1209.5	1227.4	1240.4	1245.4	1254.3	1262.3	1266.8
7.5°	1129.3	1136.3	1146.2	1162.7	1186.6	1215.5	1242.4	1249.3	1266.8	1283.7	1292.2
10°	1100.4	1105.9	1118.8	1142.2	1173.6	1214.0	1251.8	1260.3	1290.2	1318.6	1334.5
12.5°	1090.4	1095.4	1108.9	1135.3	1174.1	1221.4	1273.8	1286.2	1330.0	1371.4	1393.8
15°	1104.9	1105.9	1120.3	1145.2	1183.6	1239.9	1310.1	1325.1	1380.4	1434.2	1462.1
17.5°	1160.7	1156.2	1163.7	1174.6	1205.0	1264.3	1348.5	1370.9	1444.6	1507.9	1534.3
20°	1300.2	1300.2	1283.2	1253.3	1253.8	1302.1	1400.3	1425.7	1515.9	1589.1	1613.0
22.5°	1538.8	1534.3	1500.4	1427.2	1359.9	1367.4	1463.5	1496.4	1601.5	1679.7	1687.7
25°	1825.7	1820.2	1767.9	1664.8	1548.2	1473.0	1549.2	1587.1	1703.7	1772.9	1756.5
27.5°	2129.6	2125.1	2073.3	1945.3	1779.4	1641.4	1651.3	1687.2	1807.8	1876.0	1823.7
30°	2424.0	2425.5	2374.2	2242.6	2054.8	1856.1	1780.9	1801.8	1908.9	1978.1	1903.4
32.5°	2703.9	2705.9	2661.6	2514.6	2339.3	2105.7	1960.2	1954.7	2026.4	2094.7	2009.0
35°	2953.5	2958.5	2928.1	2814.0	2628.2	2383.6	2192.8	2179.9	2193.3	2270.5	2170.9
37.5°	3194.1	3197.1	3174.2	3078.0	2922.6	2689.0	2486.7	2468.3	2439.4	2498.7	2384.6
40°	3457.6	3450.1	3423.7	3336.6	3203.1	3026.2	2802.6	2770.7	2720.4	2773.2	2665.6
42.5°	3702.7	3694.2	3698.7	3600.1	3487.5	3372.9	3170.7	3115.9	3086.5	3147.3	3010.3
45°	4009.1	4004.6	4019.5	3933.8	3842.7	3759.5	3592.6	3532.8	3519.9	3591.1	3427.2
47.5°	4311.4	4322.4	4368.7	4332.4	4295.5	4222.3	4039.4	4012.5	4020.5	4106.7	3867.1
50°	4563.5	4576.4	4703.5	4745.3	4798.6	4755.8	4572.5	4556.0	4587.4	4665.1	4340.3
52.5°	4745.8	4772.2	4930.1	5122.9	5317.2	5346.1	5163.3	5148.3	5190.7	5202.6	4706.0
55°	4872.3	4895.8	5074.6	5427.3	5822.8	5947.3	5833.8	5776.0	5768.0	5649.9	5090.5
57.5°	4894.8	4892.3	5149.3	5624.0	6219.3	6540.6	6468.9	6412.1	6248.7	6063.4	5531.4
60°	4768.2	4782.7	5081.1	5692.3	6468.4	6989.5	6994.9	6921.2	6666.7	6465.4	5958.8
62.5°	4378.7	4437.5	4738.8	5513.5	6465.4	7170.3	7380.5	7324.2	7019.8	6794.7	6392.2
65°	3747.0	3768.0	4055.4	4900.7	6028.5	7094.6	7727.7	7706.8	7338.2	7114.5	6614.9
67.5°	2736.3	2691.0	2992.8	3859.1	5104.0	6653.2	7976.8	8003.2	7583.7	7180.2	6377.7
68°	2497.2	2510.6	2745.8	3601.6	4861.9	6497.3	7993.2	8033.6	7608.2	7137.4	6248.2
70°	1488.5	1514.4	1724.1	2479.8	3698.7	5615.1	7815.9	7908.0	7462.7	6695.6	5404.4
72.5°	380.1	411.0	609.2	1109.9	2112.6	3956.3	6597.9	6753.8	6479.4	5431.8	3648.4
75°	156.4	164.4	217.7	365.6	787.1	1782.4	4348.8	4682.6	4491.8	3251.9	1648.9
77.5°	108.1	113.6	140.0	202.7	340.7	604.2	2132.1	2373.2	2138.0	1109.9	359.7
80°	77.7	82.2	100.1	135.0	195.8	215.7	694.9	803.5	638.1	243.6	89.2
82.5°	46.3	49.8	74.7	96.1	119.1	103.1	172.9	196.3	184.8	121.0	39.9
85°	22.9	26.9	50.3	68.7	64.3	43.3	52.8	58.8	72.7	73.7	21.4
87.5°	1.5	3.0	29.4	41.3	17.9	10.0	15.4	18.9	25.9	36.4	9.0
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°	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8
2.5°	1255.3	1255.8	1252.3	1250.8	1251.8	1245.9	1243.4	1244.4	1244.4	1245.9	1243.4
5°	1267.8	1267.8	1261.8	1253.8	1249.3	1237.9	1230.4	1228.4	1226.9	1225.9	1223.9
7.5°	1294.7	1291.7	1281.2	1263.8	1248.8	1223.9	1205.0	1195.0	1190.1	1188.1	1186.6
10°	1338.0	1332.5	1315.1	1282.7	1248.3	1204.0	1162.7	1133.3	1108.9	1098.9	1092.9
12.5°	1396.3	1388.3	1358.9	1305.1	1244.9	1163.2	1073.5	987.3	907.1	874.2	857.8
15°	1463.5	1452.1	1405.8	1324.1	1224.4	1071.0	876.2	725.3	614.2	572.4	554.4
17.5°	1531.8	1516.8	1446.6	1336.0	1163.2	880.2	614.7	464.3	390.0	370.1	363.1
20°	1600.5	1578.6	1482.0	1327.1	1024.7	634.6	405.5	339.2	317.8	311.8	309.8
22.5°	1665.8	1631.9	1513.9	1292.2	811.5	425.9	320.8	299.9	292.9	289.4	288.4
25°	1722.6	1675.3	1541.8	1184.6	574.4	321.8	288.9	281.9	273.0	266.5	267.0
27.5°	1775.9	1718.6	1558.7	1007.2	383.1	275.0	267.5	258.0	241.6	232.1	232.1
30°	1840.1	1776.4	1571.1	775.1	281.9	243.1	237.1	222.7	200.3	187.8	187.8
32.5°	1936.8	1864.1	1563.2	544.0	233.6	213.7	199.8	179.8	155.4	143.5	143.0
35°	2084.7	1999.5	1506.4	356.7	206.2	185.8	163.4	139.0	117.6	107.6	107.1
37.5°	2284.0	2180.9	1378.9	255.0	184.8	159.9	133.0	106.1	90.2	83.7	83.2
40°	2542.5	2391.6	1196.5	206.7	164.9	135.0	102.6	82.2	71.2	66.3	66.8
42.5°	2852.9	2617.2	977.9	178.3	145.5	111.1	80.2	64.8	57.8	54.3	53.3
45°	3197.6	2839.9	748.7	158.9	126.0	89.7	62.8	51.3	45.8	43.8	43.8
47.5°	3576.7	3056.6	548.0	142.0	105.1	69.2	50.3	41.8	37.4	35.9	35.4
50°	3920.9	3207.1	395.0	124.0	86.2	54.8	40.8	34.9	31.9	29.9	29.9
52.5°	4207.8	3254.4	290.9	104.6	69.7	43.8	33.9	29.9	26.9	25.4	25.4
55°	4460.4	3234.9	216.2	86.2	56.3	35.9	28.9	25.4	22.9	21.4	21.4
57.5°	4702.5	3172.2	161.4	70.2	45.3	28.9	24.4	21.4	18.9	17.9	17.9
60°	4900.2	3067.6	120.1	56.8	36.4	23.4	20.4	17.4	15.4	13.9	13.9
62.5°	5060.6	2952.0	88.2	46.8	28.9	18.4	15.9	14.4	11.5	10.0	10.0
65°	5061.6	2760.2	66.3	38.9	22.4	14.4	12.0	11.5	7.5	6.0	5.5
67.5°	4695.5	2379.6	50.8	33.4	17.4	11.0	9.0	9.5	4.0	2.5	2.0
68°	4562.5	2283.0	47.8	32.9	16.4	10.5	8.5	9.5	3.5	2.0	1.5
70°	3846.7	1816.2	38.4	31.9	14.4	8.0	7.0	9.5	3.0	1.5	1.0
72.5°	2460.3	1054.1	28.4	25.4	11.0	6.0	4.5	8.5	3.0	1.0	0.5
75°	1047.1	326.8	19.4	17.9	6.5	4.5	3.0	5.5	2.0	0.5	0.0
77.5°	220.7	73.7	11.5	11.0	4.5	3.0	2.0	1.5	0.5	0.0	0.0
80°	56.8	21.4	6.0	5.5	2.5	1.5	1.0	0.0	0.0	0.0	0.0
82.5°	17.9	8.5	3.5	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.0	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	1.5	0.5	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)