

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: P321936

Luminaire Tested: **GAN-SA2D-740-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2D-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11293 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

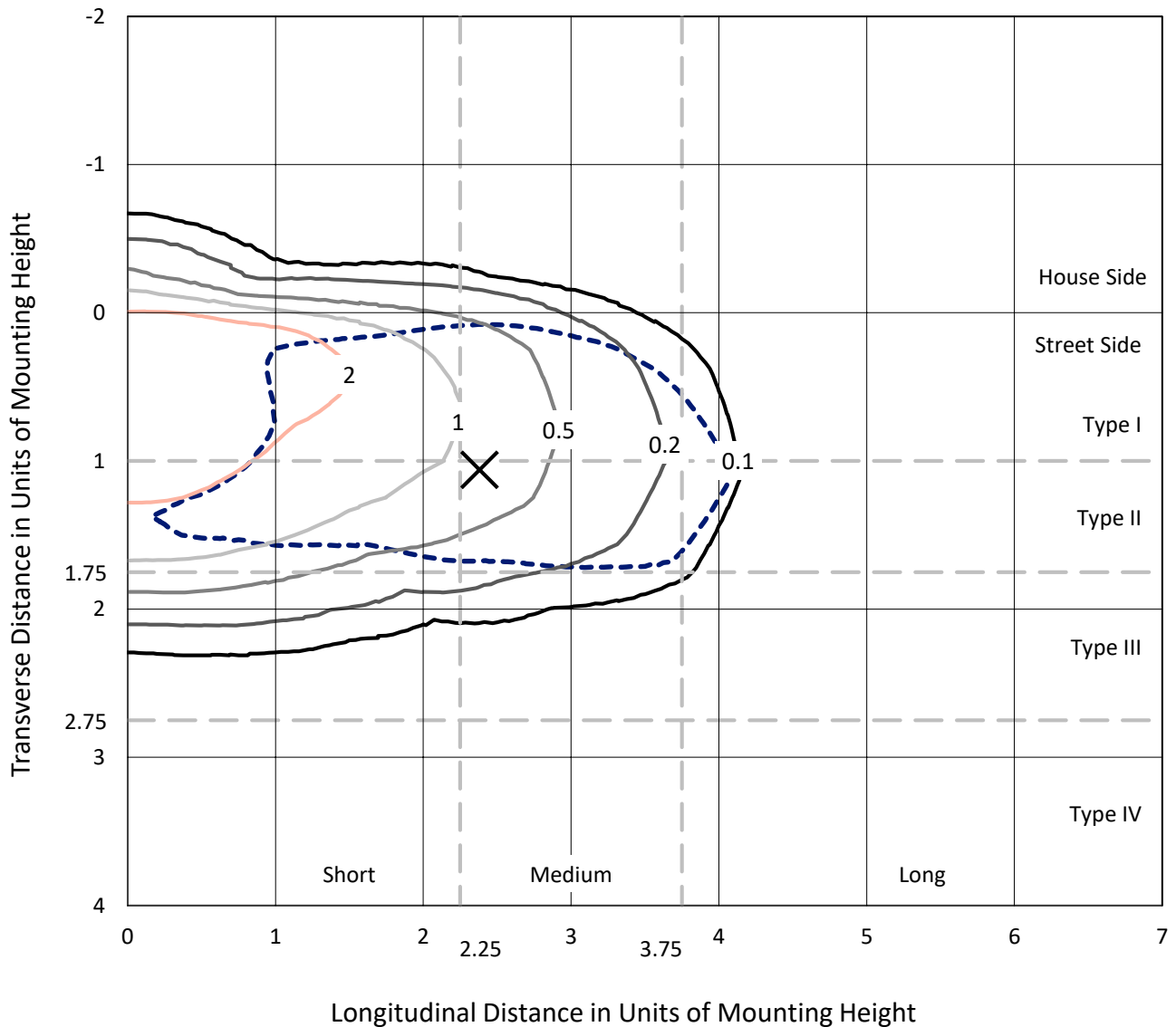
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

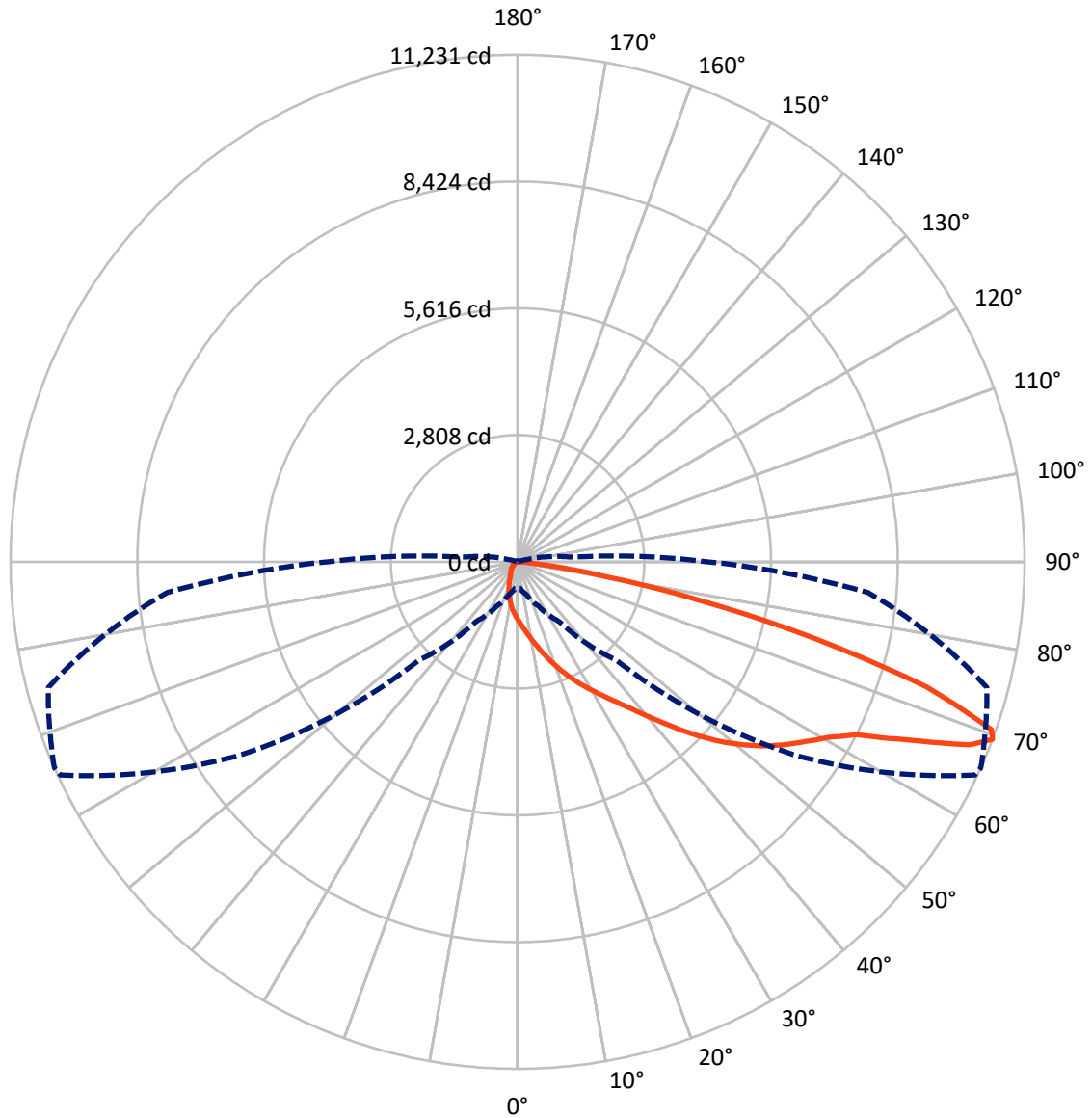
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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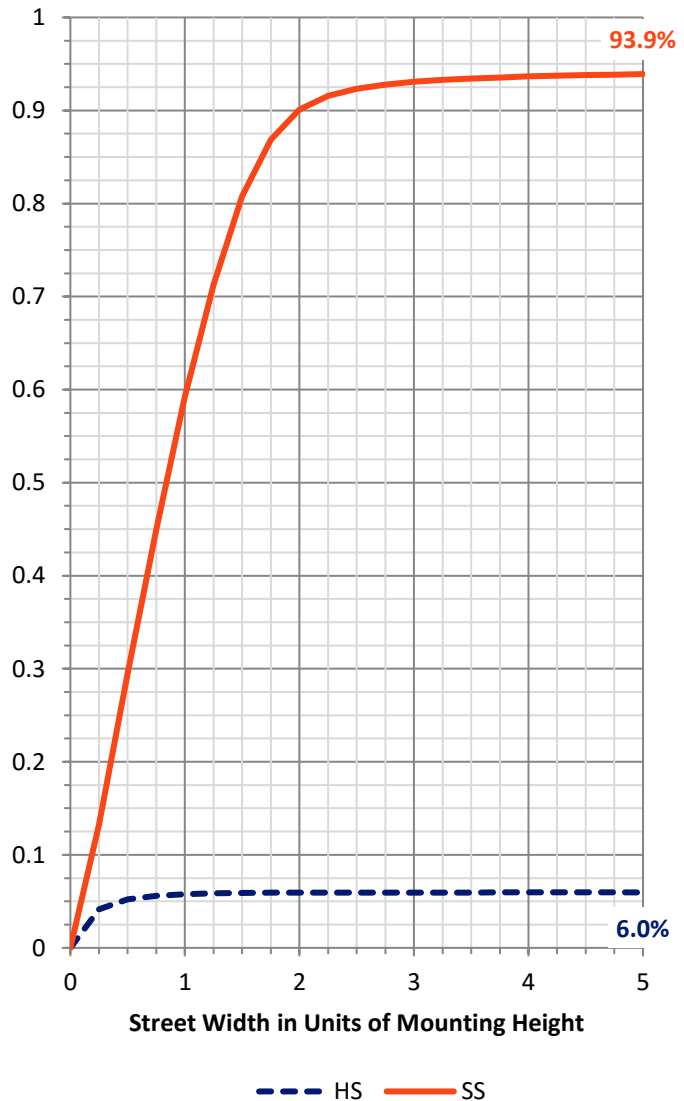
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	677.4	0.0	677.4
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	10615.6	0.0	10615.6
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	11293.0	0.0	11293.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.2	1.1
10°-20°	369.7	3.3
20°-30°	643.8	5.7
30°-40°	1129.6	10.0
40°-50°	1890.8	16.7
50°-60°	2779.3	24.6
60°-70°	2853.6	25.3
70°-80°	1408.8	12.5
80°-90°	93.1	0.8
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°	11293.0	100.0
0°-180°	11293.0	100.0

**Coefficient of Utilization**



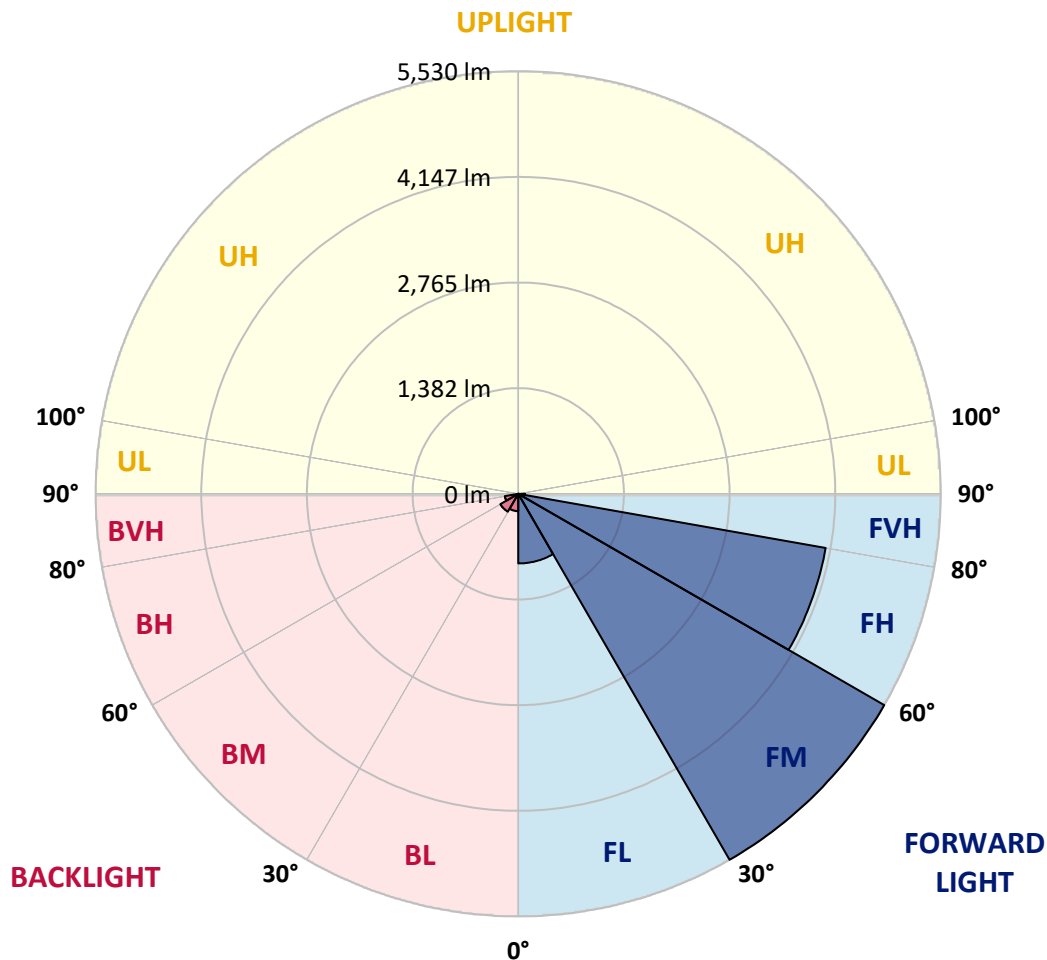
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.2	8.1			
FM (30°-60°)	5529.6	49.0			
FH (60°-80°)	4083.9	36.2			G2/5000
FVH (80°-90°)	90.9	0.8			G1/100
BL (0°-30°)	226.6	2.0	B1/500		
BM (30°-60°)	270.1	2.4	B1/1000		
BH (60°-80°)	178.5	1.6	B1/500		G1/500
BVH (80°-90°)	2.3	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1285.2	1285.2	1285.2	1285.2	1285.2	1285.2	1285.2	1285.2	1285.2	1285.2	1285.2
2.5°	1512.6	1506.2	1503.5	1491.7	1471.3	1455.8	1425.7	1390.8	1384.4	1350.6	1309.3
5°	1708.9	1703.6	1699.8	1683.2	1662.3	1623.1	1568.4	1503.5	1491.2	1426.8	1344.2
7.5°	1845.7	1855.4	1855.4	1844.6	1818.3	1788.8	1721.8	1633.3	1617.7	1519.0	1390.8
10°	1925.6	1937.4	1946.5	1955.7	1951.9	1940.1	1876.8	1777.0	1758.3	1627.4	1445.0
12.5°	1933.1	1944.9	1970.7	2008.8	2045.8	2072.6	2032.9	1936.4	1914.9	1752.9	1509.4
15°	1891.3	1903.6	1943.3	2017.3	2106.9	2185.2	2198.1	2112.8	2090.8	1902.6	1589.8
17.5°	1818.3	1826.4	1883.2	1985.7	2126.2	2270.0	2347.8	2302.2	2281.8	2073.7	1679.4
20°	1764.2	1770.1	1820.0	1929.9	2114.4	2323.1	2489.4	2503.3	2481.9	2257.1	1776.5
22.5°	1857.0	1867.7	1869.3	1921.3	2082.2	2349.4	2613.8	2701.2	2685.1	2451.8	1872.0
25°	2110.7	2123.0	2082.2	2050.1	2109.6	2361.2	2720.5	2904.0	2891.1	2661.5	1968.0
27.5°	2445.9	2458.8	2406.2	2310.2	2252.8	2405.7	2815.5	3110.0	3109.4	2883.6	2071.5
30°	2775.3	2788.1	2734.5	2638.5	2506.5	2531.7	2897.6	3325.6	3328.8	3112.6	2181.5
32.5°	3120.7	3136.8	3081.5	2958.2	2820.3	2749.5	3012.9	3542.3	3560.5	3378.2	2305.4
35°	3513.3	3515.5	3437.7	3308.4	3149.7	3040.8	3197.9	3785.3	3828.7	3707.0	2462.5
37.5°	3898.4	3914.0	3850.2	3646.3	3500.5	3377.1	3473.1	4088.9	4150.6	4108.7	2668.0
40°	4183.8	4216.5	4207.4	3987.5	3849.1	3761.1	3814.8	4449.9	4528.2	4576.4	2927.1
42.5°	4363.0	4387.6	4429.5	4297.0	4171.5	4186.0	4218.1	4870.4	4966.9	5109.6	3224.7
45°	4568.4	4580.2	4615.1	4556.6	4471.8	4617.7	4646.2	5344.0	5445.4	5683.0	3555.2
47.5°	4819.4	4847.3	4857.0	4803.3	4764.7	4999.6	5058.7	5774.7	5916.9	6297.2	3904.9
50°	5139.1	5146.6	5163.2	5128.4	5089.8	5327.9	5428.8	6226.9	6356.2	6913.5	4249.8
52.5°	5451.8	5478.6	5536.6	5514.6	5499.0	5607.4	5758.6	6634.6	6778.8	7427.3	4594.1
55°	5541.9	5565.0	5765.1	5901.8	6028.4	5951.7	6074.0	6999.8	7155.9	7886.5	4925.6
57.5°	5182.0	5228.7	5575.2	5931.4	6456.5	6487.0	6507.4	7374.8	7514.8	8238.3	5270.5
60°	4272.3	4281.4	4850.0	5460.9	6385.7	6954.2	7140.4	7777.6	7895.1	8566.1	5683.5
62.5°	2717.3	2810.1	3433.9	4296.4	5636.9	6886.7	7905.8	8386.9	8429.8	8959.2	6275.7
65°	1294.3	1354.4	1803.9	2654.6	4083.0	6021.5	8434.1	9489.2	9508.5	9738.6	7066.9
67.5°	716.6	745.6	959.6	1428.9	2386.9	4258.4	8220.6	10794.8	10813.0	10534.6	7761.0
69°	560.5	585.2	753.6	1077.1	1618.3	3060.6	7439.1	11177.2	11231.4	10762.6	7785.6
70°	475.8	499.9	649.0	909.7	1301.3	2364.9	6621.7	11082.3	11139.7	10741.1	7601.7
72.5°	291.3	305.2	432.3	640.4	872.2	1189.7	4083.5	9372.3	9469.3	9852.9	6533.2
75°	196.3	203.8	270.3	442.0	623.8	612.6	2121.4	6606.1	6816.4	7664.4	4825.3
77.5°	140.5	147.5	181.3	285.9	437.2	404.4	960.7	4105.5	4150.6	4596.8	2631.5
80°	79.9	86.4	128.2	170.0	296.6	269.8	381.9	1961.0	1983.6	1971.2	878.6
82.5°	41.8	47.2	70.3	112.1	190.4	176.5	158.8	656.5	659.8	548.7	192.6
85°	8.0	9.7	34.9	76.7	98.2	76.7	64.9	153.9	157.2	138.9	47.7
87.5°	0.0	0.5	13.9	17.2	19.3	19.8	20.9	30.0	32.2	43.4	12.9
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°	1285.2	1285.2	1285.2	1285.2	1285.2	1285.2	1285.2	1285.2	1285.2	1285.2	1285.2
2.5°	1291.1	1271.8	1234.8	1191.8	1158.6	1125.9	1100.1	1073.3	1063.7	1058.8	1058.3
5°	1304.0	1263.2	1184.9	1104.4	1038.4	976.2	931.7	889.3	869.5	860.4	856.6
7.5°	1325.4	1260.0	1133.9	1011.1	916.1	838.4	776.7	730.6	707.5	697.8	694.1
10°	1350.6	1255.7	1074.4	912.4	791.2	710.7	649.6	604.0	578.8	568.0	562.7
12.5°	1380.1	1248.2	1005.7	812.6	684.4	604.0	529.9	473.6	444.7	432.3	426.4
15°	1416.6	1240.7	933.8	718.8	590.6	492.4	411.4	373.3	367.4	365.3	365.8
17.5°	1452.5	1228.9	855.5	626.0	491.9	384.6	343.3	341.1	342.2	342.2	342.2
20°	1484.7	1202.0	770.2	546.6	398.0	324.5	315.9	312.2	309.5	307.3	304.7
22.5°	1509.9	1166.1	688.2	467.7	325.0	297.2	283.7	271.9	262.3	255.9	252.6
25°	1527.1	1118.4	613.1	392.1	292.3	270.3	246.2	226.4	211.3	202.2	198.5
27.5°	1540.0	1066.9	546.0	328.3	269.8	239.2	207.6	184.0	168.4	160.4	157.2
30°	1549.1	1008.4	487.0	288.6	244.6	206.5	172.7	149.7	138.4	134.1	132.0
32.5°	1557.7	943.5	431.3	269.8	221.0	176.5	144.8	127.1	120.2	114.8	113.2
35°	1579.1	883.4	378.2	250.0	196.9	150.7	124.4	111.6	104.6	101.4	100.3
37.5°	1630.1	838.9	327.2	229.6	172.7	130.3	108.9	99.8	93.3	90.1	89.0
40°	1712.1	816.4	284.3	207.6	149.1	114.8	98.7	90.1	83.1	78.3	77.2
42.5°	1832.8	819.6	254.2	185.6	130.3	102.4	89.0	78.8	71.3	67.0	66.0
45°	1979.3	843.2	233.3	164.1	114.8	92.8	78.3	67.6	60.6	56.9	55.8
47.5°	2138.0	881.3	216.2	144.8	102.4	83.7	67.6	56.3	50.4	47.2	46.7
50°	2305.4	918.3	198.5	126.1	91.7	74.6	56.9	46.7	41.8	39.2	38.1
52.5°	2474.9	961.2	182.4	108.9	82.6	63.8	47.2	38.1	34.3	32.2	31.1
55°	2657.3	993.4	166.8	95.5	73.5	54.2	39.2	31.6	28.4	25.7	25.2
57.5°	2871.8	1043.3	150.7	82.6	62.8	45.1	32.2	25.2	22.5	19.8	19.3
60°	3161.5	1101.7	133.6	72.9	51.5	37.0	26.3	20.4	17.2	15.0	14.5
62.5°	3543.4	1166.6	112.1	63.8	41.8	30.0	20.9	16.1	12.3	9.7	9.7
65°	4027.7	1272.3	91.7	53.6	34.3	24.7	16.1	11.8	7.0	4.3	4.3
67.5°	4310.4	1290.5	74.0	44.0	27.9	20.9	13.4	8.0	2.1	0.5	0.0
69°	4219.7	1184.9	62.8	37.5	24.1	19.8	12.3	5.9	1.1	0.0	0.0
70°	4049.2	1083.5	55.2	33.3	22.0	18.8	11.8	4.3	1.1	0.0	0.0
72.5°	3346.0	771.3	41.8	24.7	16.1	16.6	10.7	2.7	1.1	0.0	0.0
75°	2437.3	468.8	30.0	17.2	10.2	12.3	7.5	1.1	0.5	0.0	0.0
77.5°	1356.0	221.0	18.8	9.7	6.4	7.5	3.8	0.0	0.0	0.0	0.0
80°	440.4	60.1	8.6	5.4	3.8	4.3	1.6	0.0	0.0	0.0	0.0
82.5°	81.5	17.2	4.8	2.7	1.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	17.7	7.0	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	2.1	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)