

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: P321876

Luminaire Tested: **GAN-SA2B-730-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321876  
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-SA2B-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA 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: 7575 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

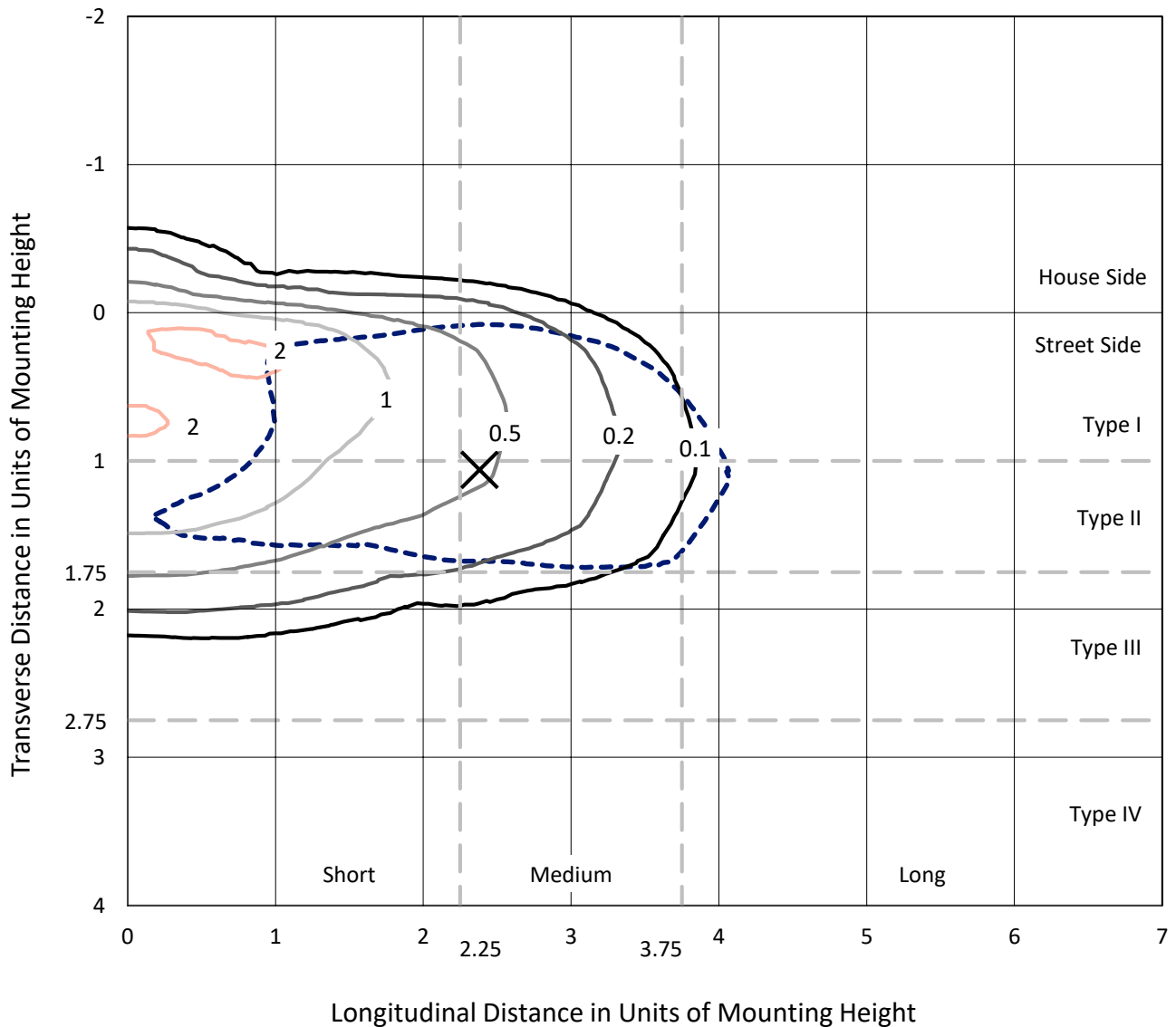
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

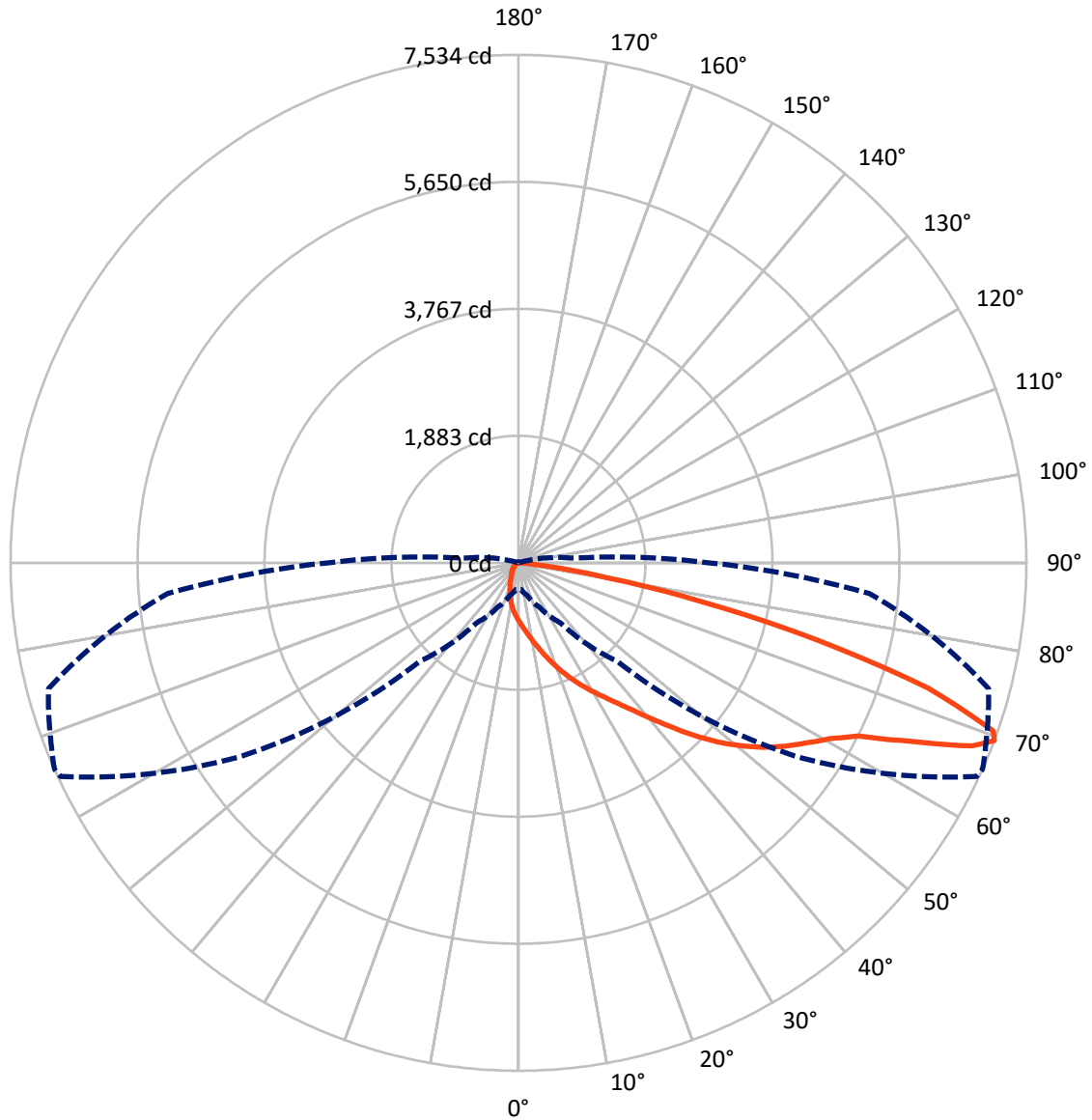
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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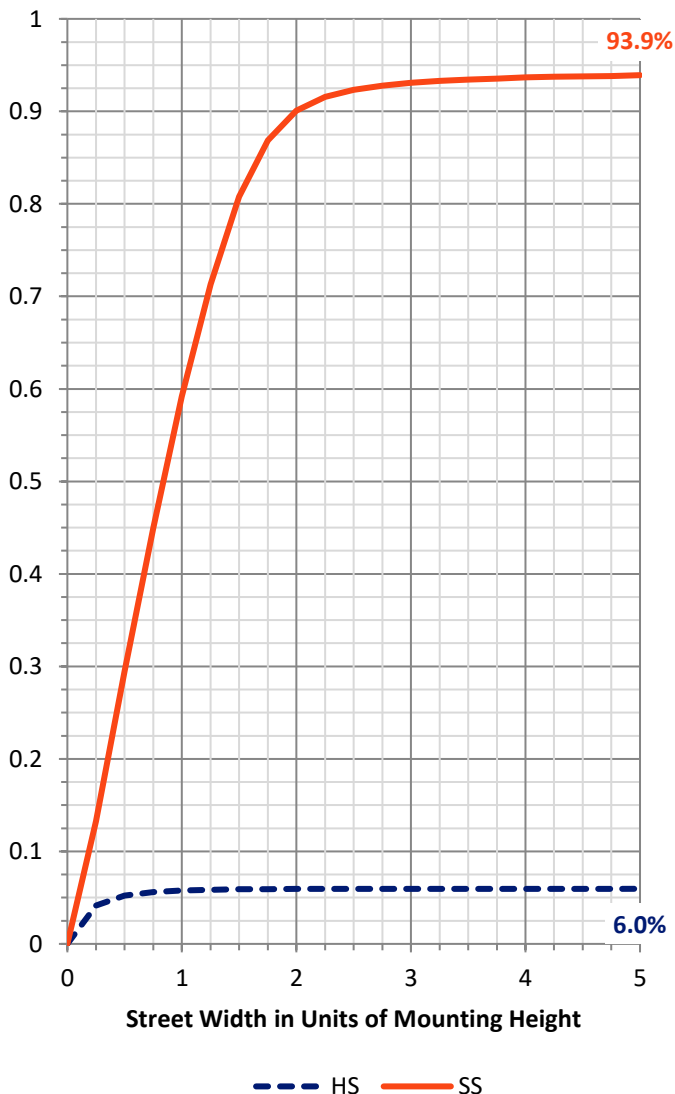
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	454.4	0.0	454.4
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	7120.6	0.0	7120.6
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	7575.0	0.0	7575.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.3	1.1
10°-20°	248.0	3.3
20°-30°	431.9	5.7
30°-40°	757.7	10.0
40°-50°	1268.3	16.7
50°-60°	1864.3	24.6
60°-70°	1914.1	25.3
70°-80°	945.0	12.5
80°-90°	62.5	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°	7575.0	100.0
0°-180°	7575.0	100.0

**Coefficient of Utilization**



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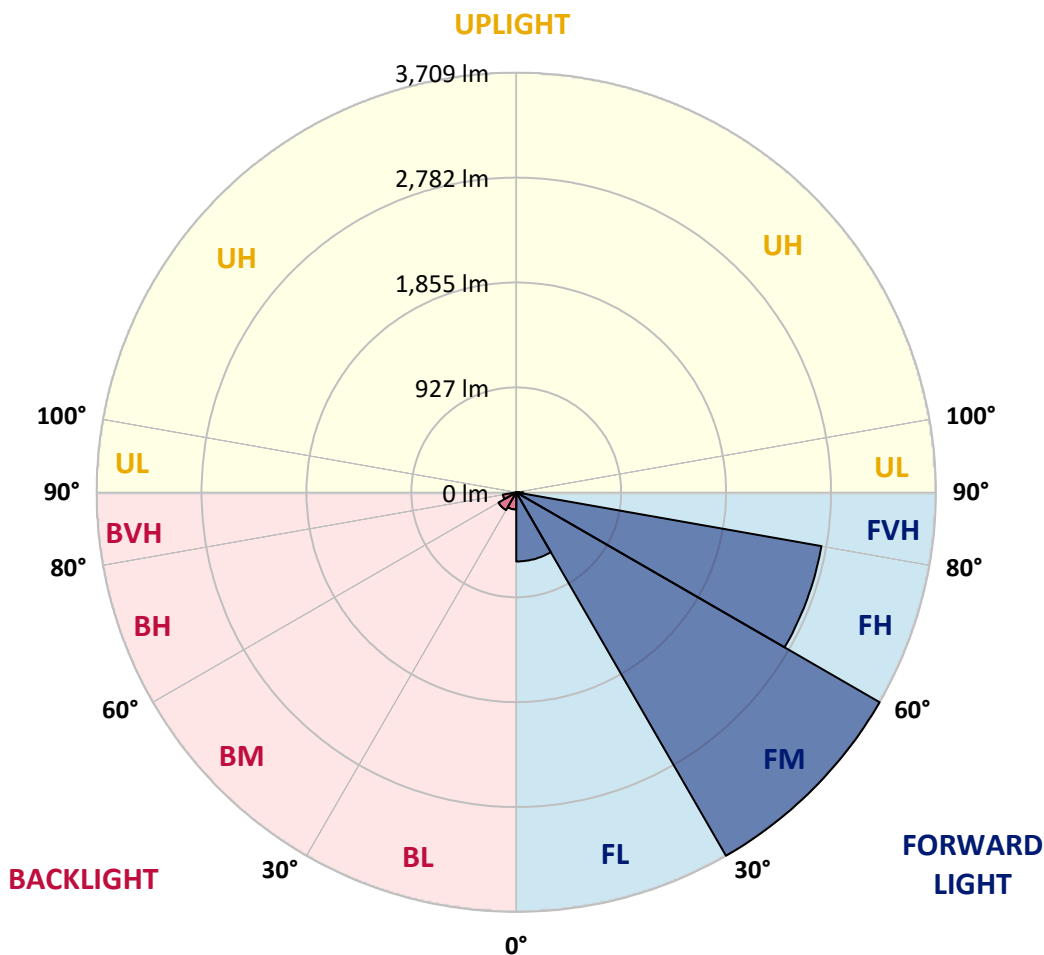
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.2	8.1			
FM (30°-60°)	3709.1	49.0			
FH (60°-80°)	2739.3	36.2			G2/5000
FVH (80°-90°)	61.0	0.8			G1/100
BL (0°-30°)	152.0	2.0	B1/500		
BM (30°-60°)	181.2	2.4	B0/220		
BH (60°-80°)	119.8	1.6	B1/500		G1/500
BVH (80°-90°)	1.5	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°	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1
2.5°	1014.6	1010.3	1008.5	1000.6	986.9	976.5	956.3	932.9	928.6	906.0	878.2
5°	1146.3	1142.7	1140.2	1129.0	1115.0	1088.7	1052.0	1008.5	1000.2	957.0	901.6
7.5°	1238.0	1244.5	1244.5	1237.3	1219.7	1199.9	1154.9	1095.6	1085.1	1018.9	932.9
10°	1291.6	1299.6	1305.7	1311.8	1309.3	1301.4	1258.9	1192.0	1179.4	1091.6	969.3
12.5°	1296.7	1304.6	1321.9	1347.4	1372.2	1390.2	1363.6	1298.8	1284.5	1175.8	1012.5
15°	1268.6	1276.9	1303.5	1353.2	1413.3	1465.8	1474.4	1417.2	1402.5	1276.2	1066.4
17.5°	1219.7	1225.1	1263.2	1331.9	1426.2	1522.6	1574.8	1544.2	1530.6	1391.0	1126.5
20°	1183.4	1187.3	1220.8	1294.5	1418.3	1558.3	1669.8	1679.1	1664.8	1514.0	1191.6
22.5°	1245.6	1252.8	1253.9	1288.8	1396.7	1575.9	1753.3	1811.9	1801.1	1644.6	1255.7
25°	1415.8	1424.1	1396.7	1375.1	1415.1	1583.8	1824.9	1947.9	1939.3	1785.3	1320.1
27.5°	1640.6	1649.3	1614.0	1549.6	1511.1	1613.7	1888.5	2086.1	2085.7	1934.2	1389.5
30°	1861.6	1870.2	1834.2	1769.8	1681.3	1698.2	1943.6	2230.7	2232.9	2087.9	1463.3
32.5°	2093.3	2104.1	2067.0	1984.2	1891.8	1844.3	2020.9	2376.1	2388.3	2266.0	1546.4
35°	2356.6	2358.1	2305.9	2219.2	2112.7	2039.7	2145.1	2539.0	2568.2	2486.5	1651.8
37.5°	2615.0	2625.4	2582.6	2445.9	2348.0	2265.2	2329.6	2742.7	2784.1	2756.0	1789.6
40°	2806.4	2828.3	2822.2	2674.7	2581.9	2522.9	2558.8	2984.8	3037.4	3069.7	1963.4
42.5°	2926.5	2943.1	2971.2	2882.3	2798.1	2807.8	2829.4	3266.9	3331.7	3427.4	2163.1
45°	3064.3	3072.3	3095.6	3056.4	2999.6	3097.4	3116.5	3584.6	3652.6	3812.0	2384.7
47.5°	3232.7	3251.4	3257.9	3221.9	3196.0	3353.6	3393.2	3873.5	3968.9	4223.9	2619.3
50°	3447.2	3452.2	3463.3	3440.0	3414.1	3573.8	3641.4	4176.8	4263.5	4637.3	2850.6
52.5°	3656.9	3674.9	3713.8	3699.0	3688.6	3761.3	3862.7	4450.3	4547.0	4982.0	3081.6
55°	3717.4	3732.8	3867.0	3958.8	4043.7	3992.2	4074.3	4695.3	4800.0	5290.0	3304.0
57.5°	3475.9	3507.2	3739.7	3978.6	4330.8	4351.3	4365.0	4946.8	5040.7	5526.0	3535.3
60°	2865.7	2871.9	3253.2	3663.0	4283.3	4664.7	4789.5	5217.0	5295.8	5745.9	3812.3
62.5°	1822.7	1884.9	2303.4	2881.9	3781.0	4619.4	5303.0	5625.7	5654.5	6009.6	4209.6
65°	868.2	908.5	1210.0	1780.6	2738.7	4039.0	5657.4	6365.1	6378.0	6532.4	4740.2
67.5°	480.7	500.1	643.7	958.5	1601.1	2856.4	5514.2	7240.8	7253.0	7066.3	5205.8
69°	376.0	392.5	505.5	722.5	1085.5	2053.0	4989.9	7497.3	7533.7	7219.2	5222.4
70°	319.1	335.3	435.3	610.2	872.9	1586.3	4441.6	7433.6	7472.1	7204.8	5099.0
72.5°	195.4	204.7	290.0	429.6	585.0	798.0	2739.1	6286.6	6351.8	6609.0	4382.3
75°	131.7	136.7	181.3	296.5	418.4	410.9	1423.0	4431.2	4572.2	5141.1	3236.7
77.5°	94.3	98.9	121.6	191.8	293.2	271.3	644.4	2753.8	2784.1	3083.4	1765.1
80°	53.6	57.9	86.0	114.1	199.0	181.0	256.2	1315.4	1330.5	1322.2	589.3
82.5°	28.1	31.7	47.1	75.2	127.7	118.4	106.5	440.4	442.5	368.1	129.2
85°	5.4	6.5	23.4	51.5	65.8	51.5	43.5	103.3	105.4	93.2	32.0
87.5°	0.0	0.4	9.4	11.5	13.0	13.3	14.0	20.1	21.6	29.1	8.6
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°	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1
2.5°	866.0	853.1	828.2	799.5	777.1	755.2	737.9	719.9	713.5	710.2	709.9
5°	874.7	847.3	794.8	740.8	696.6	654.8	625.0	596.5	583.2	577.1	574.6
7.5°	889.0	845.1	760.6	678.2	614.5	562.4	521.0	490.0	474.6	468.1	465.6
10°	906.0	842.3	720.7	612.0	530.7	476.7	435.7	405.1	388.2	381.0	377.4
12.5°	925.7	837.2	674.6	545.1	459.1	405.1	355.5	317.7	298.3	290.0	286.0
15°	950.2	832.2	626.4	482.1	396.1	330.3	276.0	250.4	246.5	245.0	245.4
17.5°	974.3	824.3	573.9	419.9	329.9	258.0	230.3	228.8	229.5	229.5	229.5
20°	995.9	806.3	516.7	366.6	267.0	217.7	211.9	209.4	207.6	206.2	204.4
22.5°	1012.8	782.2	461.6	313.7	218.0	199.3	190.3	182.4	175.9	171.6	169.5
25°	1024.3	750.2	411.2	263.0	196.1	181.3	165.1	151.8	141.8	135.6	133.1
27.5°	1033.0	715.6	366.3	220.2	181.0	160.5	139.2	123.4	113.0	107.6	105.4
30°	1039.1	676.4	326.7	193.6	164.1	138.5	115.9	100.4	92.8	89.9	88.5
32.5°	1044.8	632.9	289.3	181.0	148.2	118.4	97.1	85.3	80.6	77.0	75.9
35°	1059.2	592.6	253.7	167.7	132.0	101.1	83.5	74.8	70.2	68.0	67.3
37.5°	1093.4	562.7	219.5	154.0	115.9	87.4	73.0	66.9	62.6	60.4	59.7
40°	1148.5	547.6	190.7	139.2	100.0	77.0	66.2	60.4	55.8	52.5	51.8
42.5°	1229.4	549.8	170.5	124.5	87.4	68.7	59.7	52.9	47.9	45.0	44.3
45°	1327.6	565.6	156.5	110.1	77.0	62.2	52.5	45.3	40.7	38.1	37.4
47.5°	1434.1	591.1	145.0	97.1	68.7	56.1	45.3	37.8	33.8	31.7	31.3
50°	1546.4	616.0	133.1	84.6	61.5	50.0	38.1	31.3	28.1	26.3	25.5
52.5°	1660.1	644.7	122.3	73.0	55.4	42.8	31.7	25.5	23.0	21.6	20.9
55°	1782.4	666.3	111.9	64.0	49.3	36.3	26.3	21.2	19.1	17.3	16.9
57.5°	1926.3	699.8	101.1	55.4	42.1	30.2	21.6	16.9	15.1	13.3	13.0
60°	2120.6	739.0	89.6	48.9	34.5	24.8	17.6	13.7	11.5	10.1	9.7
62.5°	2376.8	782.5	75.2	42.8	28.1	20.1	14.0	10.8	8.3	6.5	6.5
65°	2701.7	853.4	61.5	36.0	23.0	16.6	10.8	7.9	4.7	2.9	2.9
67.5°	2891.3	865.7	49.7	29.5	18.7	14.0	9.0	5.4	1.4	0.4	0.0
69°	2830.5	794.8	42.1	25.2	16.2	13.3	8.3	4.0	0.7	0.0	0.0
70°	2716.1	726.8	37.1	22.3	14.8	12.6	7.9	2.9	0.7	0.0	0.0
72.5°	2244.4	517.4	28.1	16.6	10.8	11.2	7.2	1.8	0.7	0.0	0.0
75°	1634.9	314.5	20.1	11.5	6.8	8.3	5.0	0.7	0.4	0.0	0.0
77.5°	909.6	148.2	12.6	6.5	4.3	5.0	2.5	0.0	0.0	0.0	0.0
80°	295.4	40.3	5.8	3.6	2.5	2.9	1.1	0.0	0.0	0.0	0.0
82.5°	54.7	11.5	3.2	1.8	0.7	0.7	0.0	0.0	0.0	0.0	0.0
85°	11.9	4.7	1.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	1.4	0.4	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)