

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: P321897

Luminaire Tested: **GAN-SA3D-730-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321897  
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-SA3D-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 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: 15346 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

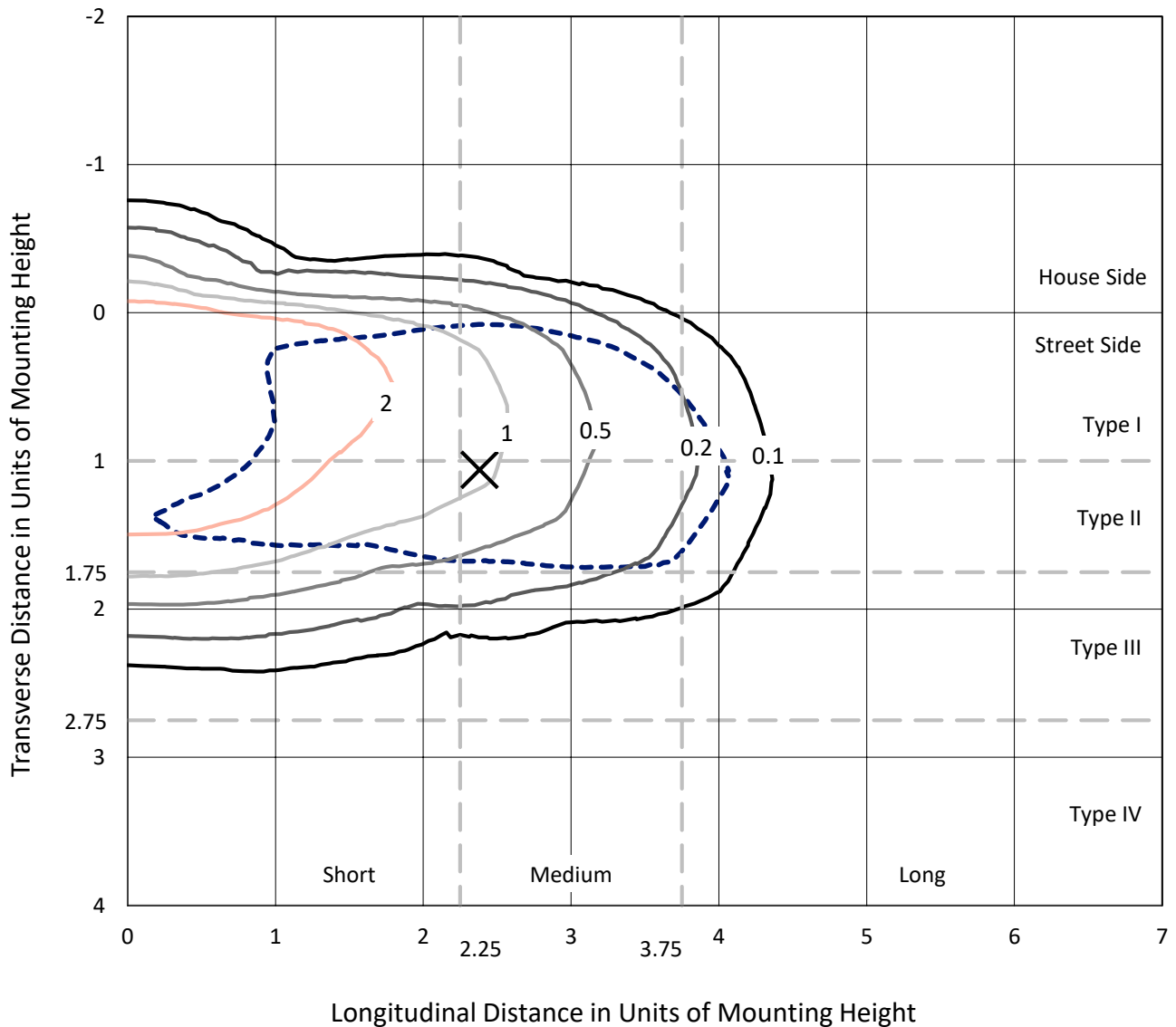
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

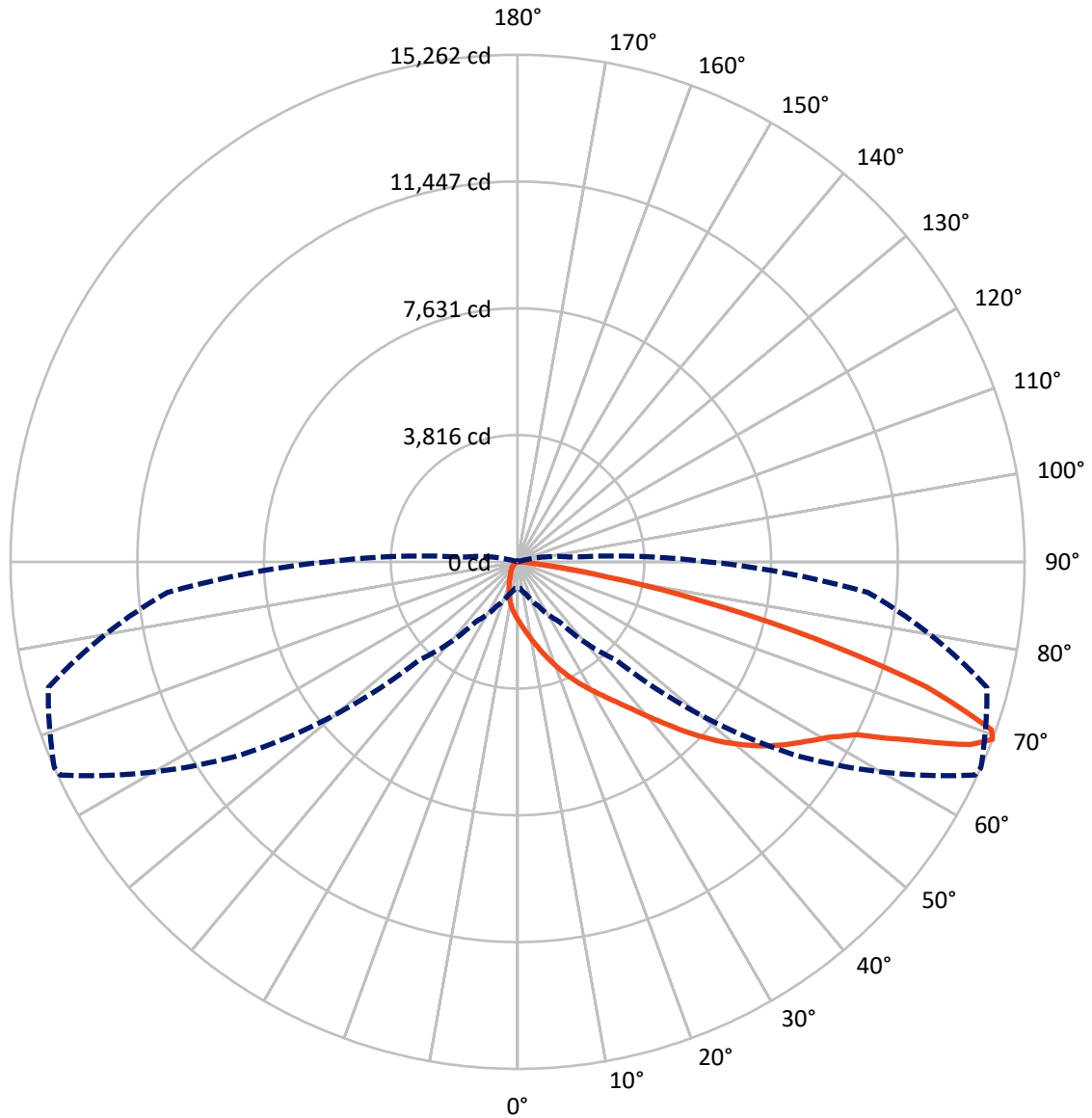
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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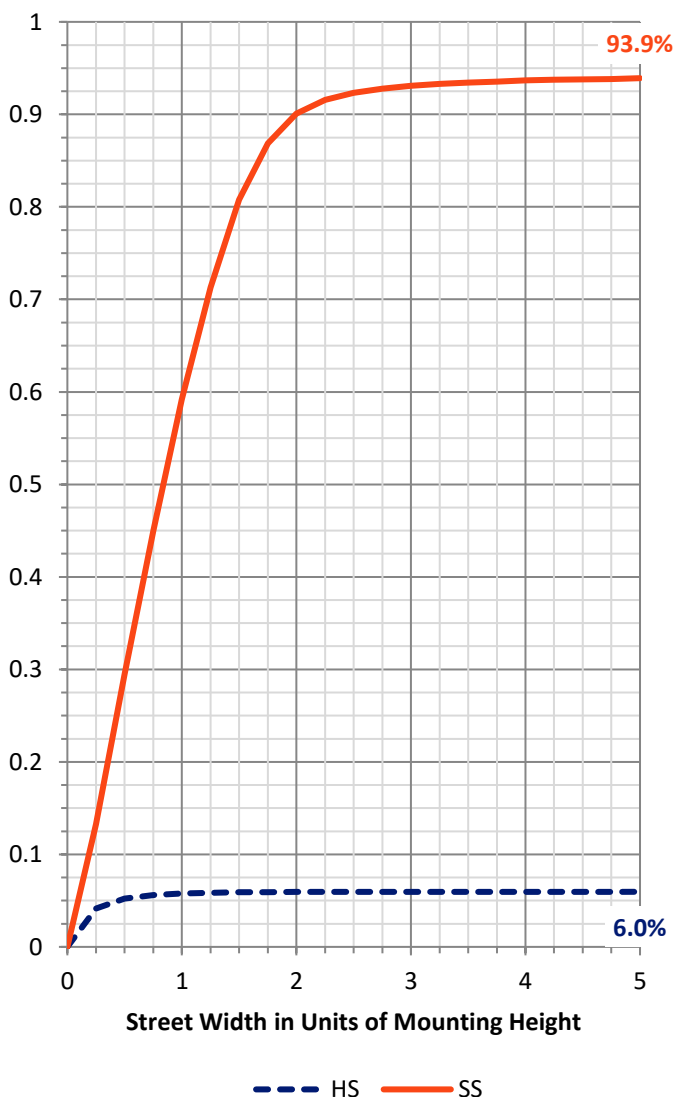
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	920.5	0.0	920.5
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	14425.5	0.0	14425.5
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	15346.0	0.0	15346.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.8	1.1
10°-20°	502.4	3.3
20°-30°	874.9	5.7
30°-40°	1535.0	10.0
40°-50°	2569.4	16.7
50°-60°	3776.8	24.6
60°-70°	3877.8	25.3
70°-80°	1914.3	12.5
80°-90°	126.6	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°	15346.0	100.0
0°-180°	15346.0	100.0

**Coefficient of Utilization**

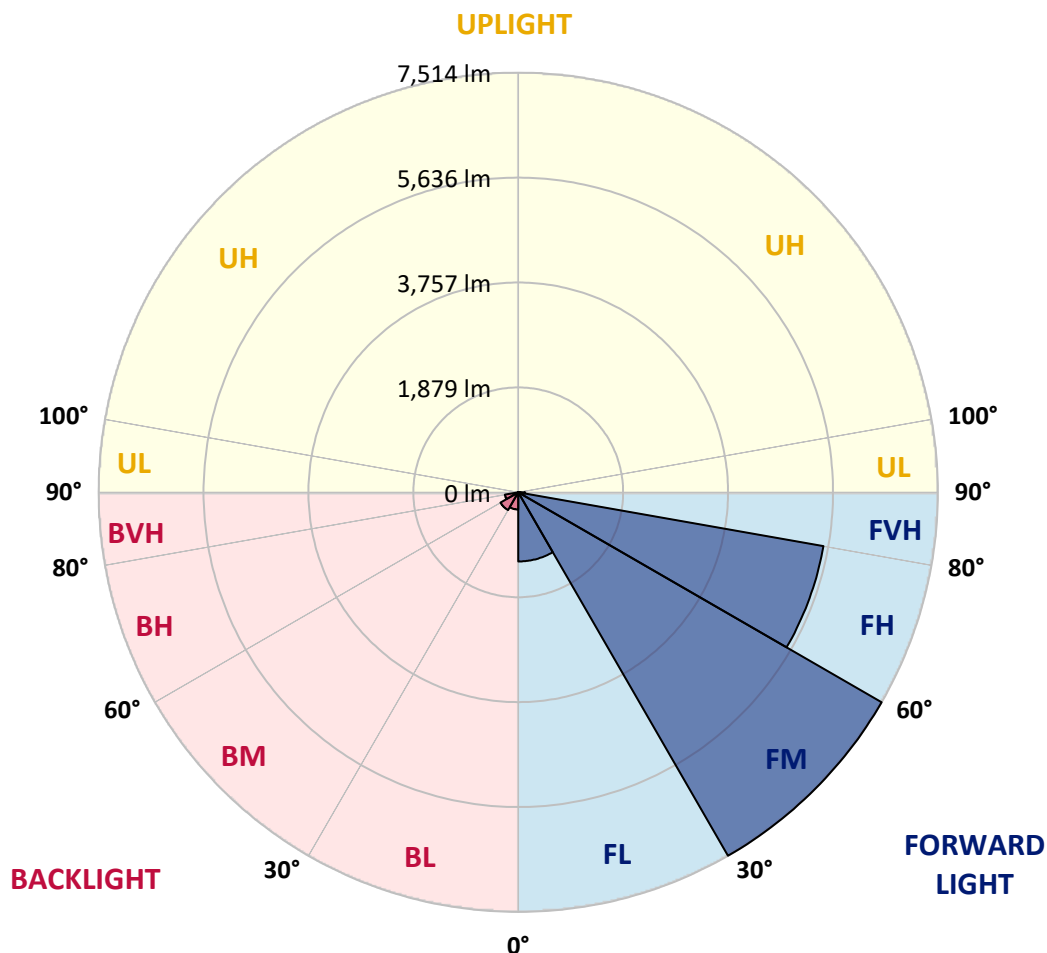


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1238.3	8.1			
FM (30°-60°)	7514.1	49.0			
FH (60°-80°)	5549.5	36.2			G3/7500
FVH (80°-90°)	123.5	0.8			G2/225
BL (0°-30°)	307.9	2.0	B1/500		
BM (30°-60°)	367.0	2.4	B1/1000		
BH (60°-80°)	242.6	1.6	B1/500		G1/500
BVH (80°-90°)	3.1	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-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4
2.5°	2055.5	2046.7	2043.1	2027.0	1999.3	1978.2	1937.4	1890.0	1881.3	1835.3	1779.2
5°	2322.2	2315.0	2309.9	2287.3	2258.8	2205.6	2131.3	2043.1	2026.3	1938.9	1826.6
7.5°	2508.1	2521.2	2521.2	2506.7	2470.9	2430.9	2339.7	2219.5	2198.3	2064.2	1890.0
10°	2616.7	2632.8	2645.1	2657.5	2652.4	2636.4	2550.4	2414.8	2389.3	2211.5	1963.6
12.5°	2626.9	2643.0	2677.9	2729.7	2780.0	2816.4	2762.5	2631.3	2602.1	2382.0	2051.1
15°	2570.1	2586.8	2640.8	2741.4	2863.1	2969.5	2987.0	2871.1	2841.2	2585.4	2160.4
17.5°	2470.9	2481.9	2559.1	2698.4	2889.3	3084.7	3190.4	3128.4	3100.7	2817.9	2282.2
20°	2397.3	2405.3	2473.1	2622.6	2873.3	3156.8	3382.8	3401.7	3372.6	3067.2	2414.1
22.5°	2523.4	2538.0	2540.2	2610.9	2829.6	3192.5	3551.9	3670.7	3648.8	3331.8	2543.8
25°	2868.2	2885.0	2829.6	2785.8	2866.7	3208.6	3696.9	3946.2	3928.7	3616.8	2674.3
27.5°	3323.7	3341.2	3269.8	3139.3	3061.3	3269.1	3826.0	4226.1	4225.4	3918.5	2815.0
30°	3771.3	3788.8	3715.9	3585.4	3406.1	3440.4	3937.5	4519.1	4523.5	4229.8	2964.4
32.5°	4240.7	4262.6	4187.5	4019.8	3832.5	3736.3	4094.2	4813.6	4838.4	4590.6	3132.8
35°	4774.2	4777.2	4671.5	4495.8	4280.1	4132.1	4345.7	5143.8	5202.8	5037.4	3346.3
37.5°	5297.6	5318.7	5232.0	4955.0	4756.7	4589.1	4719.6	5556.3	5640.2	5583.3	3625.5
40°	5685.4	5729.8	5717.4	5418.6	5230.5	5111.0	5183.9	6046.9	6153.3	6218.9	3977.6
42.5°	5928.8	5962.3	6019.2	5839.1	5668.6	5688.3	5732.0	6618.3	6749.5	6943.4	4382.1
45°	6208.0	6224.0	6271.4	6191.9	6076.8	6275.0	6313.7	7261.9	7399.7	7722.6	4831.1
47.5°	6549.1	6587.0	6600.1	6527.2	6474.7	6794.0	6874.2	7847.2	8040.4	8557.2	5306.3
50°	6983.5	6993.7	7016.3	6968.9	6916.5	7240.1	7377.1	8461.7	8637.4	9394.7	5775.0
52.5°	7408.5	7444.9	7523.6	7493.7	7472.6	7619.8	7825.4	9015.7	9211.7	10093.0	6243.0
55°	7530.9	7562.2	7834.1	8020.0	8192.0	8087.8	8254.0	9512.0	9724.1	10716.9	6693.4
57.5°	7041.8	7105.2	7576.1	8060.1	8773.7	8815.2	8842.9	10021.5	10211.8	11195.0	7162.1
60°	5805.6	5818.0	6590.6	7420.8	8677.5	9450.1	9703.0	10568.9	10728.6	11640.4	7723.3
62.5°	3692.6	3818.7	4666.4	5838.4	7659.9	9358.2	10743.1	11396.9	11455.3	12174.7	8528.0
65°	1758.8	1840.5	2451.3	3607.3	5548.3	8182.5	11461.1	12894.8	12921.1	13233.8	9603.1
67.5°	973.8	1013.2	1304.0	1941.8	3243.6	5786.7	11171.0	14668.9	14693.7	14315.4	10546.3
69°	761.7	795.2	1024.1	1463.6	2199.1	4159.1	10109.0	15188.6	15262.3	14625.2	10579.9
70°	646.5	679.3	882.0	1236.2	1768.3	3213.7	8998.2	15059.6	15137.6	14596.1	10329.9
72.5°	395.8	414.7	587.5	870.3	1185.2	1616.7	5549.1	12735.9	12867.9	13389.0	8877.9
75°	266.8	277.0	367.4	600.6	847.7	832.4	2882.8	8977.0	9262.8	10415.1	6557.1
77.5°	191.0	200.4	246.4	388.5	594.0	549.6	1305.4	5578.9	5640.2	6246.6	3575.9
80°	108.6	117.4	174.2	231.1	403.1	366.6	519.0	2664.8	2695.4	2678.7	1193.9
82.5°	56.9	64.1	95.5	152.3	258.8	239.8	215.8	892.2	896.5	745.7	261.7
85°	10.9	13.1	47.4	104.2	133.4	104.2	88.2	209.2	213.6	188.8	64.9
87.5°	0.0	0.7	19.0	23.3	26.2	27.0	28.4	40.8	43.7	59.0	17.5
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°	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4
2.5°	1754.4	1728.2	1677.9	1619.6	1574.4	1529.9	1495.0	1458.5	1445.4	1438.8	1438.1
5°	1771.9	1716.5	1610.1	1500.8	1411.1	1326.6	1266.1	1208.5	1181.5	1169.1	1164.0
7.5°	1801.1	1712.2	1540.9	1374.0	1244.9	1139.3	1055.4	992.8	961.4	948.3	943.2
10°	1835.3	1706.3	1460.0	1239.8	1075.1	965.8	882.7	820.7	786.5	771.9	764.6
12.5°	1875.4	1696.1	1366.7	1104.3	930.1	820.7	720.1	643.6	604.3	587.5	579.5
15°	1925.0	1685.9	1269.0	976.7	802.5	669.1	559.1	507.3	499.3	496.4	497.1
17.5°	1973.8	1669.9	1162.6	850.6	668.4	522.6	466.5	463.6	465.0	465.0	465.0
20°	2017.6	1633.4	1046.7	742.7	540.8	441.0	429.3	424.2	420.6	417.7	414.0
22.5°	2051.8	1584.6	935.2	635.6	441.7	403.8	385.6	369.5	356.4	347.7	343.3
25°	2075.2	1519.7	833.1	532.8	397.2	367.4	334.6	307.6	287.2	274.8	269.7
27.5°	2092.6	1449.8	742.0	446.1	366.6	325.1	282.1	250.0	228.9	217.9	213.6
30°	2105.0	1370.3	661.8	392.1	332.4	280.6	234.7	203.4	188.1	182.2	179.3
32.5°	2116.7	1282.1	586.0	366.6	300.3	239.8	196.8	172.7	163.3	156.0	153.8
35°	2145.9	1200.5	513.9	339.7	267.5	204.8	169.1	151.6	142.1	137.8	136.3
37.5°	2215.1	1140.0	444.6	312.0	234.7	177.1	148.0	135.6	126.8	122.5	121.0
40°	2326.6	1109.4	386.3	282.1	202.6	156.0	134.1	122.5	113.0	106.4	105.0
42.5°	2490.6	1113.7	345.5	252.2	177.1	139.2	121.0	107.1	96.9	91.1	89.7
45°	2689.6	1145.8	317.1	223.0	156.0	126.1	106.4	91.8	82.4	77.3	75.8
47.5°	2905.4	1197.6	293.7	196.8	139.2	113.7	91.8	76.5	68.5	64.1	63.4
50°	3132.8	1247.9	269.7	171.3	124.6	101.3	77.3	63.4	56.9	53.2	51.8
52.5°	3363.1	1306.2	247.8	148.0	112.2	86.7	64.1	51.8	46.6	43.7	42.3
55°	3610.9	1349.9	226.7	129.7	99.9	73.6	53.2	43.0	38.6	35.0	34.3
57.5°	3902.5	1417.7	204.8	112.2	85.3	61.2	43.7	34.3	30.6	27.0	26.2
60°	4296.1	1497.1	181.5	99.1	70.0	50.3	35.7	27.7	23.3	20.4	19.7
62.5°	4815.1	1585.3	152.3	86.7	56.9	40.8	28.4	21.9	16.8	13.1	13.1
65°	5473.2	1728.9	124.6	72.9	46.6	33.5	21.9	16.0	9.5	5.8	5.8
67.5°	5857.4	1753.7	100.6	59.8	37.9	28.4	18.2	10.9	2.9	0.7	0.0
69°	5734.2	1610.1	85.3	51.0	32.8	27.0	16.8	8.0	1.5	0.0	0.0
70°	5502.4	1472.4	75.1	45.2	29.9	25.5	16.0	5.8	1.5	0.0	0.0
72.5°	4546.8	1048.1	56.9	33.5	21.9	22.6	14.6	3.6	1.5	0.0	0.0
75°	3312.1	637.1	40.8	23.3	13.8	16.8	10.2	1.5	0.7	0.0	0.0
77.5°	1842.6	300.3	25.5	13.1	8.7	10.2	5.1	0.0	0.0	0.0	0.0
80°	598.4	81.6	11.7	7.3	5.1	5.8	2.2	0.0	0.0	0.0	0.0
82.5°	110.8	23.3	6.6	3.6	1.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	24.1	9.5	3.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	2.9	0.7	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)