

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: P321898

Luminaire Tested: **GAN-SA4D-730-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321898  
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-SA4D-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 20278 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

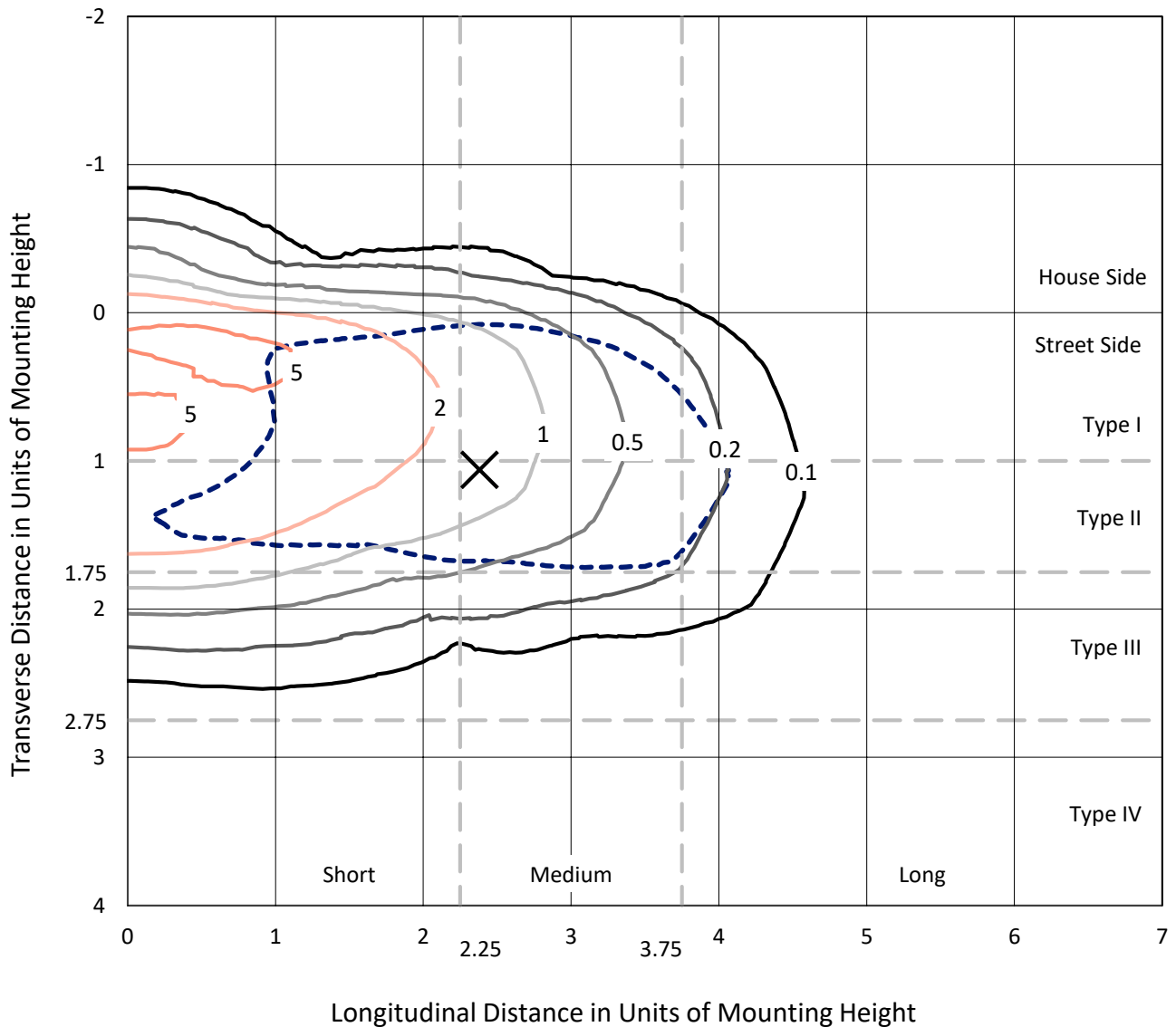
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

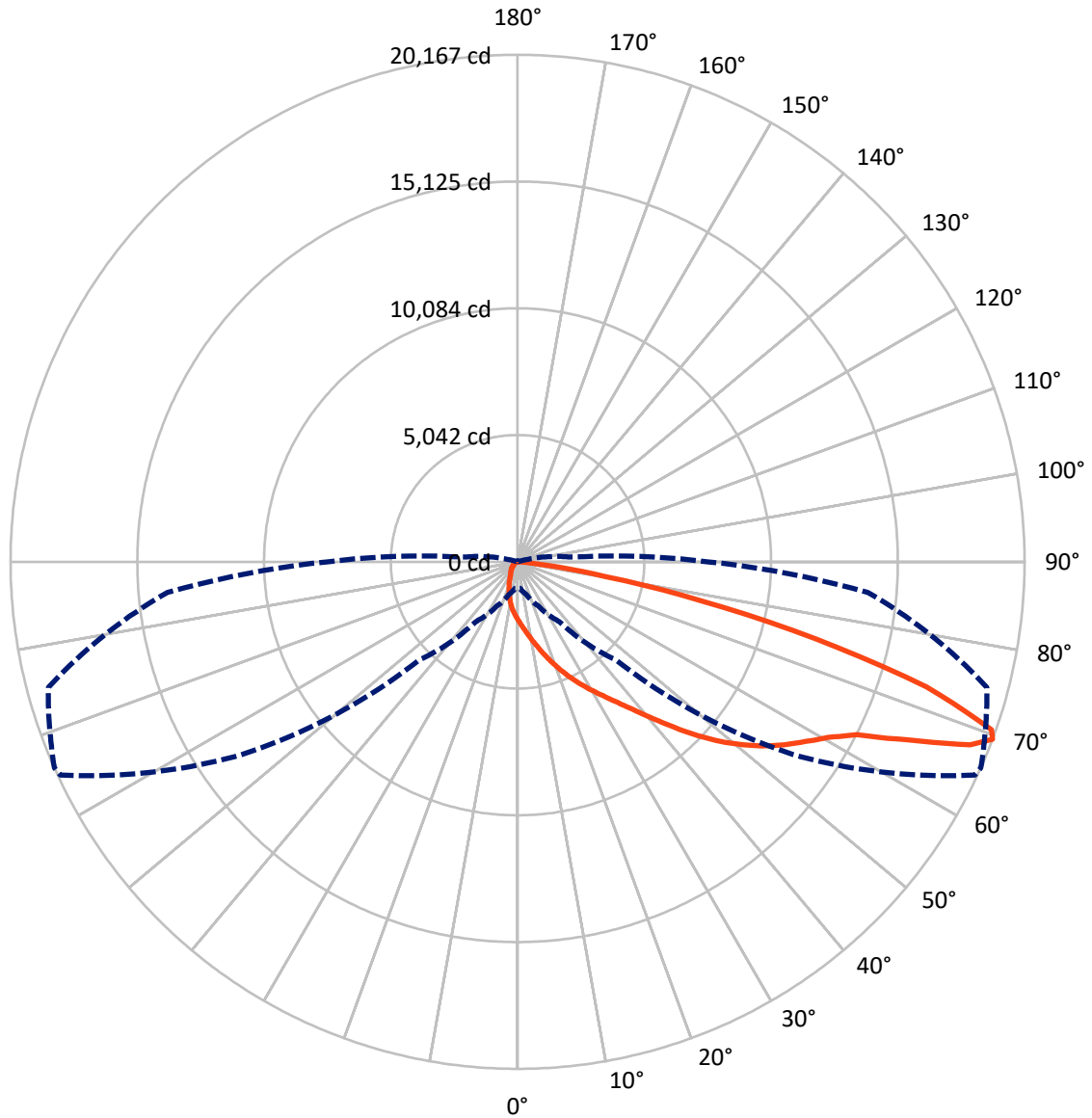
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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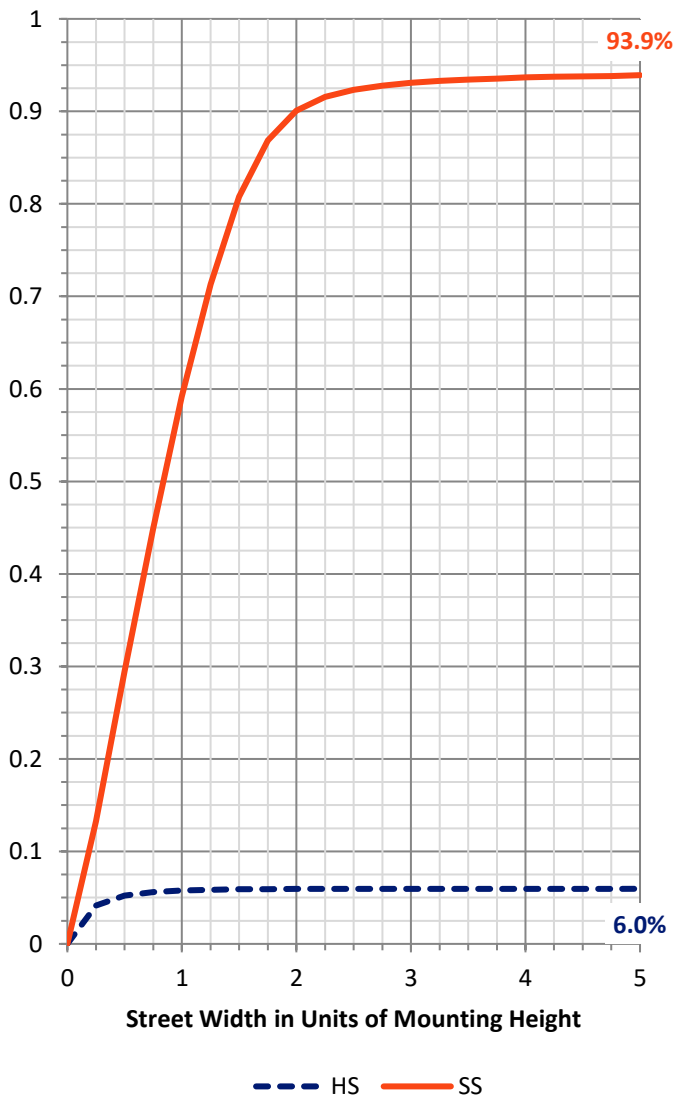
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1216.4	0.0	1216.4
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	19061.6	0.0	19061.6
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	20278.0	0.0	20278.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.1	1.1
10°-20°	663.9	3.3
20°-30°	1156.1	5.7
30°-40°	2028.4	10.0
40°-50°	3395.1	16.7
50°-60°	4990.6	24.6
60°-70°	5124.0	25.3
70°-80°	2529.6	12.5
80°-90°	167.3	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°	20278.0	100.0
0°-180°	20278.0	100.0

**Coefficient of Utilization**

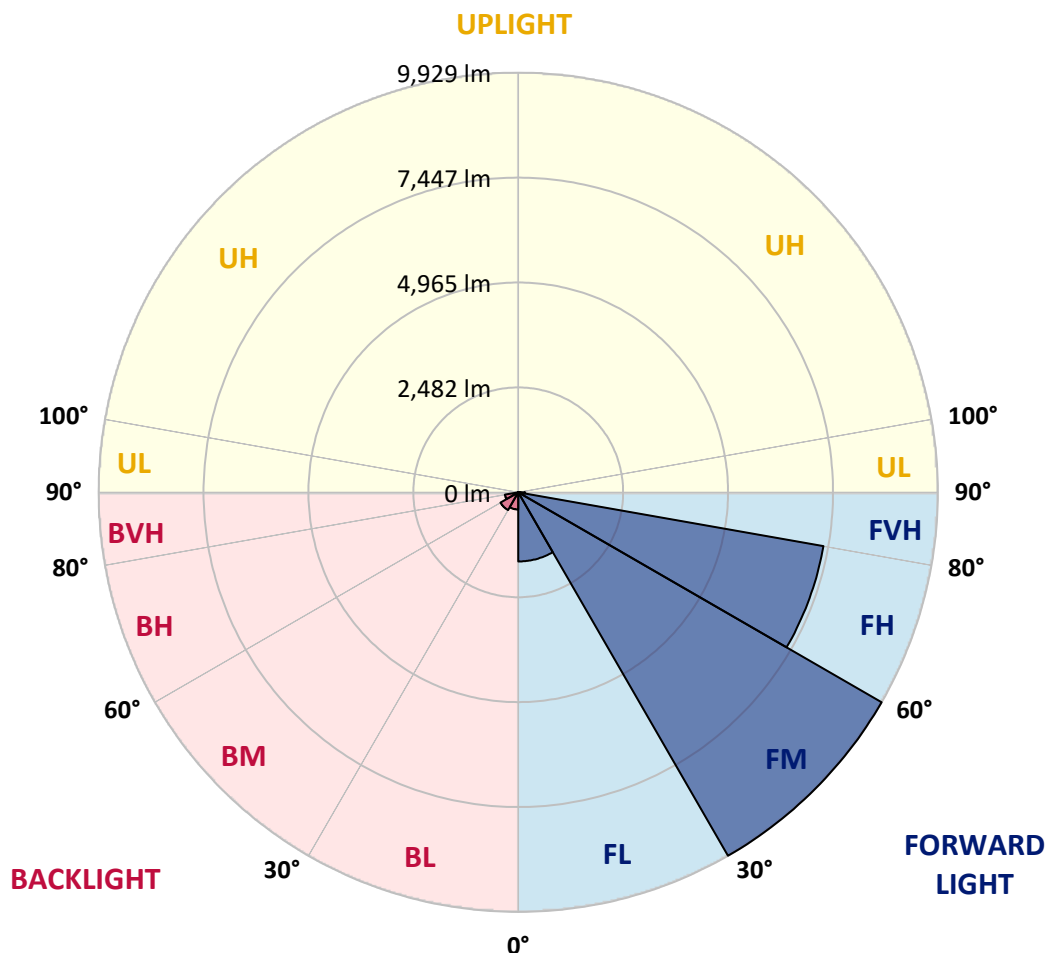


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1636.2	8.1			
FM (30°-60°)	9929.1	49.0			
FH (60°-80°)	7333.1	36.2			G3/7500
FVH (80°-90°)	163.2	0.8			G2/225
BL (0°-30°)	406.8	2.0	B1/500		
BM (30°-60°)	485.0	2.4	B1/1000		
BH (60°-80°)	320.6	1.6	B1/500		G1/500
BVH (80°-90°)	4.0	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°	2307.7	2307.7	2307.7	2307.7	2307.7	2307.7	2307.7	2307.7	2307.7	2307.7	2307.7
2.5°	2716.1	2704.5	2699.7	2678.5	2641.9	2614.0	2560.0	2497.4	2485.9	2425.2	2351.0
5°	3068.6	3059.0	3052.2	3022.4	2984.8	2914.5	2816.2	2699.7	2677.6	2562.0	2413.6
7.5°	3314.2	3331.5	3331.5	3312.3	3265.1	3212.1	3091.7	2932.8	2904.9	2727.6	2497.4
10°	3457.7	3478.9	3495.3	3511.6	3504.9	3483.7	3370.1	3190.9	3157.2	2922.2	2594.7
12.5°	3471.2	3492.4	3538.6	3607.0	3673.4	3721.6	3650.3	3477.0	3438.4	3147.6	2710.3
15°	3396.1	3418.2	3489.5	3622.4	3783.2	3923.9	3947.0	3793.8	3754.3	3416.3	2854.8
17.5°	3265.1	3279.5	3381.6	3565.6	3817.9	4076.0	4215.7	4133.8	4097.2	3723.5	3015.6
20°	3167.8	3178.4	3268.0	3465.4	3796.7	4171.4	4470.0	4495.0	4456.5	4052.9	3189.9
22.5°	3334.4	3353.7	3356.6	3450.0	3738.9	4218.6	4693.4	4850.4	4821.5	4402.5	3361.4
25°	3790.0	3812.1	3738.9	3681.1	3788.1	4239.8	4885.1	5214.5	5191.4	4779.1	3533.8
27.5°	4392.0	4415.1	4320.7	4148.3	4045.2	4319.7	5055.6	5584.3	5583.4	5177.9	3719.7
30°	4983.3	5006.4	4910.1	4737.7	4500.8	4546.1	5202.9	5971.5	5977.3	5589.1	3917.1
32.5°	5603.6	5632.5	5533.3	5311.8	5064.2	4937.1	5410.0	6360.6	6393.4	6065.9	4139.6
35°	6308.6	6312.5	6172.8	5940.7	5655.6	5460.1	5742.3	6796.9	6874.9	6656.3	4421.8
37.5°	7000.2	7028.1	6913.5	6547.5	6285.5	6064.0	6236.4	7342.1	7452.8	7377.7	4790.7
40°	7512.6	7571.3	7554.9	7160.0	6911.5	6753.6	6849.9	7990.3	8130.9	8217.6	5255.9
42.5°	7834.2	7878.5	7953.7	7715.8	7490.4	7516.4	7574.2	8745.4	8918.7	9174.9	5790.4
45°	8203.1	8224.3	8286.9	8181.9	8029.8	8291.7	8342.8	9595.8	9777.9	10204.5	6383.7
47.5°	8653.9	8704.0	8721.3	8625.0	8555.6	8977.5	9083.4	10369.2	10624.5	11307.4	7011.7
50°	9227.9	9241.4	9271.3	9208.7	9139.3	9566.9	9748.0	11181.2	11413.3	12414.0	7631.0
52.5°	9789.4	9837.6	9941.6	9902.1	9874.2	10068.7	10340.4	11913.2	12172.3	13336.7	8249.4
55°	9951.2	9992.7	10351.9	10597.5	10824.8	10687.1	10906.7	12569.1	12849.4	14161.2	8844.6
57.5°	9305.0	9388.8	10011.0	10650.5	11593.4	11648.3	11684.9	13242.3	13493.7	14793.0	9463.9
60°	7671.5	7687.8	8708.8	9805.8	11466.3	12487.2	12821.4	13965.6	14176.6	15381.5	10205.5
62.5°	4879.3	5045.9	6166.1	7714.8	10121.7	12365.9	14195.8	15059.8	15136.8	16087.5	11268.8
65°	2324.1	2431.9	3239.1	4766.6	7331.5	10812.3	15144.5	17039.0	17073.7	17486.9	12689.5
67.5°	1286.8	1338.8	1723.1	2565.8	4286.0	7646.4	14761.2	19383.3	19416.1	18916.2	13935.8
69°	1006.5	1050.8	1353.2	1934.0	2905.8	5495.7	13357.9	20070.1	20167.3	19325.6	13980.1
70°	854.3	897.7	1165.4	1633.5	2336.6	4246.5	11890.1	19899.6	20002.6	19287.0	13649.7
72.5°	523.0	548.0	776.3	1150.0	1566.1	2136.3	7332.4	16829.1	17003.4	17692.1	11731.1
75°	352.5	366.0	485.4	793.6	1120.1	1099.9	3809.2	11862.1	12239.7	13762.4	8664.5
77.5°	252.3	264.9	325.5	513.4	785.0	726.2	1725.0	7371.9	7452.8	8254.2	4725.2
80°	143.5	155.1	230.2	305.3	532.6	484.5	685.8	3521.3	3561.7	3539.6	1577.6
82.5°	75.1	84.8	126.2	201.3	341.9	316.9	285.1	1178.9	1184.7	985.3	345.8
85°	14.4	17.3	62.6	137.7	176.3	137.7	116.5	276.4	282.2	249.5	85.7
87.5°	0.0	1.0	25.0	30.8	34.7	35.6	37.6	53.9	57.8	78.0	23.1
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°	2307.7	2307.7	2307.7	2307.7	2307.7	2307.7	2307.7	2307.7	2307.7	2307.7	2307.7
2.5°	2318.3	2283.6	2217.2	2140.1	2080.4	2021.6	1975.4	1927.3	1909.9	1901.3	1900.3
5°	2341.4	2268.2	2127.6	1983.1	1864.7	1752.9	1673.0	1596.9	1561.3	1544.9	1538.1
7.5°	2379.9	2262.4	2036.1	1815.5	1645.1	1505.4	1394.6	1311.8	1270.4	1253.1	1246.3
10°	2425.2	2254.7	1929.2	1638.3	1420.6	1276.2	1166.4	1084.5	1039.2	1020.0	1010.3
12.5°	2478.2	2241.2	1805.9	1459.2	1229.0	1084.5	951.6	850.5	798.4	776.3	765.7
15°	2543.7	2227.8	1676.8	1290.6	1060.4	884.2	738.7	670.4	659.8	655.9	656.9
17.5°	2608.2	2206.6	1536.2	1124.0	883.2	690.6	616.4	612.6	614.5	614.5	614.5
20°	2666.0	2158.4	1383.1	981.4	714.7	582.7	567.3	560.6	555.7	551.9	547.1
22.5°	2711.3	2093.9	1235.7	839.9	583.7	533.6	509.5	488.3	471.0	459.4	453.6
25°	2742.1	2008.2	1100.9	704.1	524.9	485.4	442.1	406.4	379.5	363.1	356.4
27.5°	2765.2	1915.7	980.5	589.4	484.5	429.6	372.7	330.4	302.4	288.0	282.2
30°	2781.6	1810.7	874.5	518.2	439.2	370.8	310.1	268.7	248.5	240.8	236.9
32.5°	2797.0	1694.2	774.4	484.5	396.8	316.9	260.0	228.3	215.7	206.1	203.2
35°	2835.5	1586.3	679.0	448.8	353.5	270.6	223.5	200.3	187.8	182.0	180.1
37.5°	2927.0	1506.4	587.5	412.2	310.1	234.0	195.5	179.1	167.6	161.8	159.9
40°	3074.4	1465.9	510.5	372.7	267.8	206.1	177.2	161.8	149.3	140.6	138.7
42.5°	3291.1	1471.7	456.5	333.2	234.0	184.0	159.9	141.6	128.1	120.4	118.5
45°	3554.0	1514.1	419.0	294.7	206.1	166.6	140.6	121.4	108.8	102.1	100.2
47.5°	3839.1	1582.5	388.1	260.0	184.0	150.3	121.4	101.1	90.5	84.8	83.8
50°	4139.6	1648.9	356.4	226.3	164.7	133.9	102.1	83.8	75.1	70.3	68.4
52.5°	4444.0	1726.0	327.5	195.5	148.3	114.6	84.8	68.4	61.6	57.8	55.9
55°	4771.4	1783.7	299.5	171.4	132.0	97.3	70.3	56.8	51.0	46.2	45.3
57.5°	5156.7	1873.3	270.6	148.3	112.7	80.9	57.8	45.3	40.5	35.6	34.7
60°	5676.8	1978.3	239.8	131.0	92.5	66.5	47.2	36.6	30.8	27.0	26.0
62.5°	6362.6	2094.8	201.3	114.6	75.1	53.9	37.6	28.9	22.2	17.3	17.3
65°	7232.3	2284.6	164.7	96.3	61.6	44.3	28.9	21.2	12.5	7.7	7.7
67.5°	7739.9	2317.3	132.9	79.0	50.1	37.6	24.1	14.4	3.9	1.0	0.0
69°	7577.1	2127.6	112.7	67.4	43.3	35.6	22.2	10.6	1.9	0.0	0.0
70°	7270.8	1945.6	99.2	59.7	39.5	33.7	21.2	7.7	1.9	0.0	0.0
72.5°	6008.1	1385.0	75.1	44.3	28.9	29.9	19.3	4.8	1.9	0.0	0.0
75°	4376.5	841.8	53.9	30.8	18.3	22.2	13.5	1.9	1.0	0.0	0.0
77.5°	2434.8	396.8	33.7	17.3	11.6	13.5	6.7	0.0	0.0	0.0	0.0
80°	790.7	107.9	15.4	9.6	6.7	7.7	2.9	0.0	0.0	0.0	0.0
82.5°	146.4	30.8	8.7	4.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	31.8	12.5	4.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	3.9	1.0	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)