

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: P323862

Luminaire Tested: **GAN-SA8D-740-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8D-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50471 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

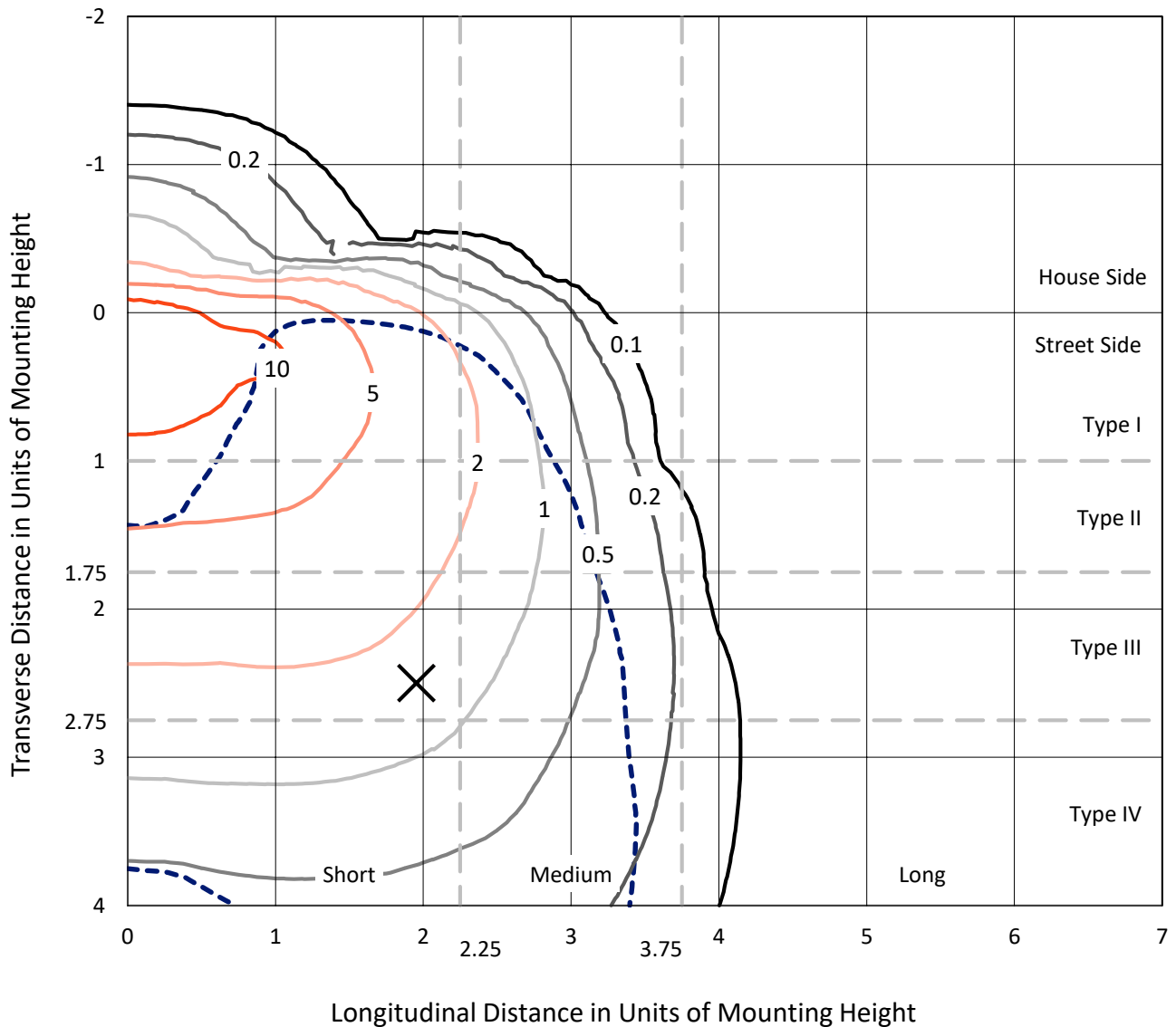
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

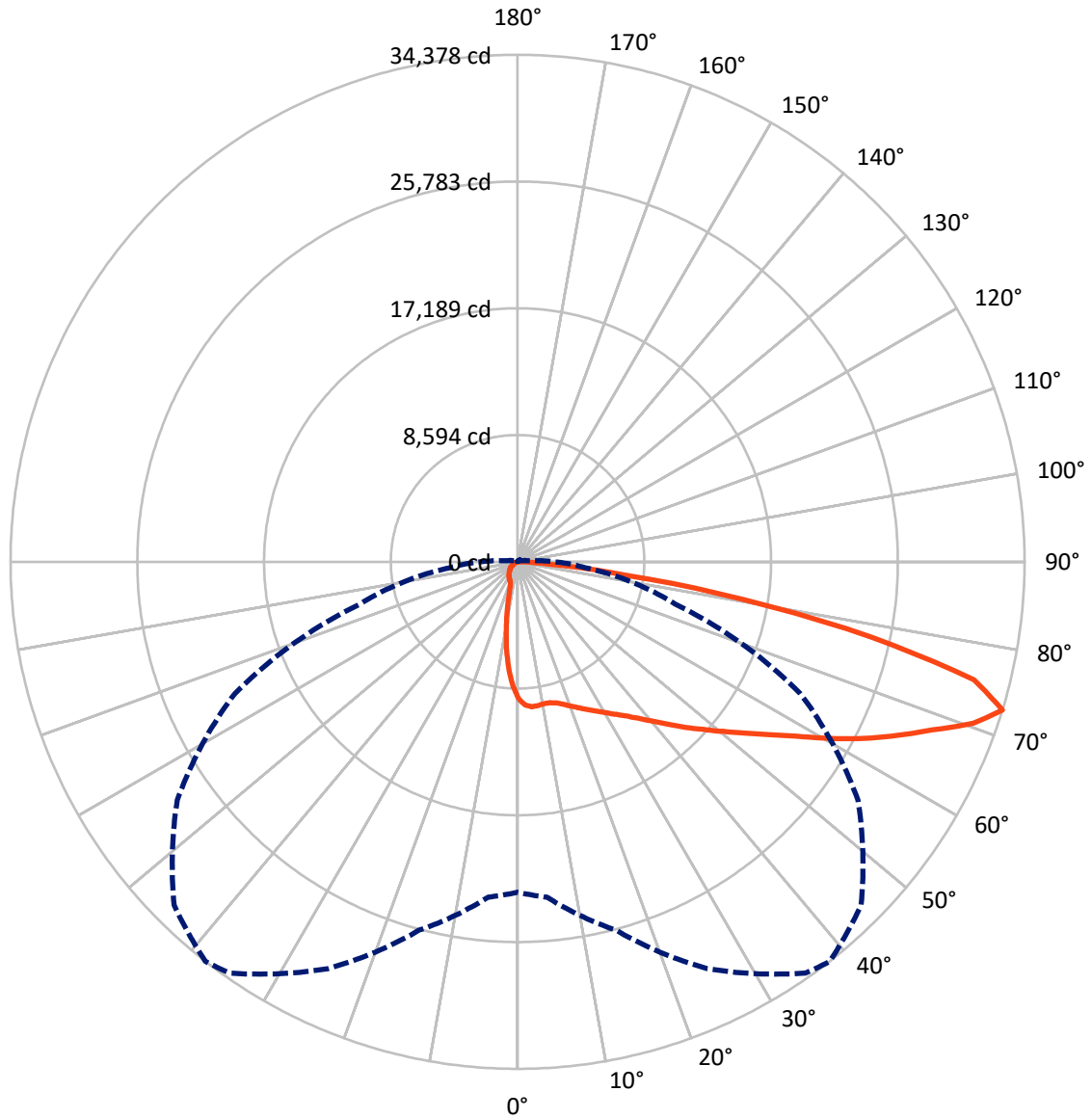
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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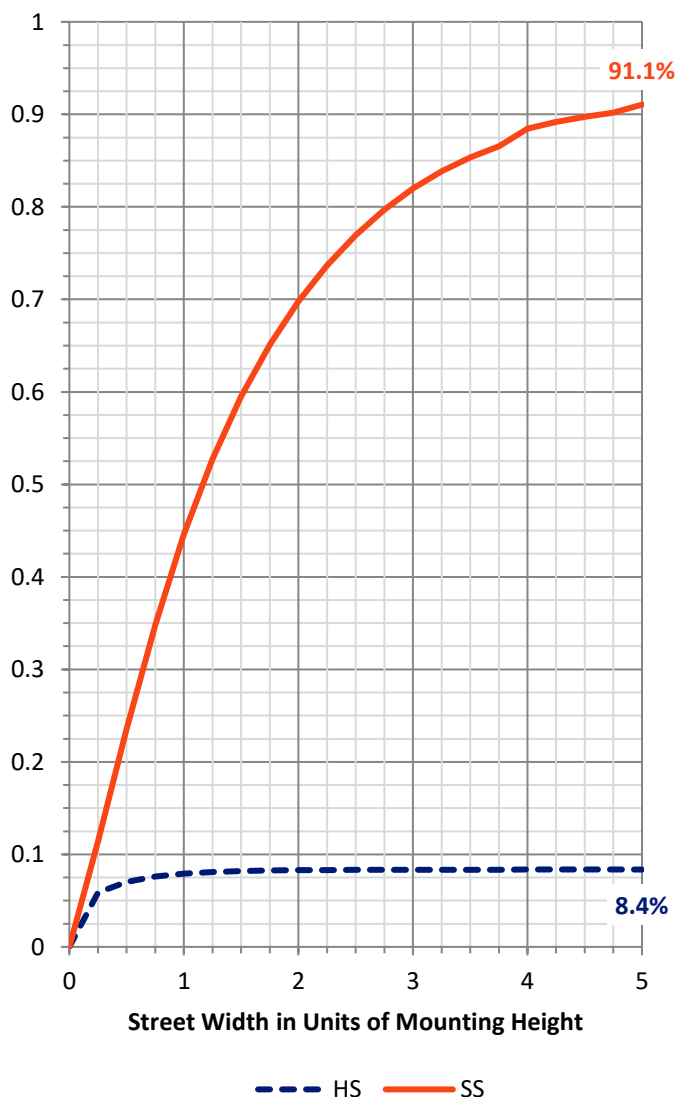
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4247.3	0.0	4247.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	46223.7	0.0	46223.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	50471.0	0.0	50471.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	791.0	1.6
10°-20°	1934.1	3.8
20°-30°	3076.1	6.1
30°-40°	4624.6	9.2
40°-50°	7055.1	14.0
50°-60°	9971.3	19.8
60°-70°	12507.3	24.8
70°-80°	9352.0	18.5
80°-90°	1159.6	2.3
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°	50471.0	100.0
0°-180°	50471.0	100.0

**Coefficient of Utilization**

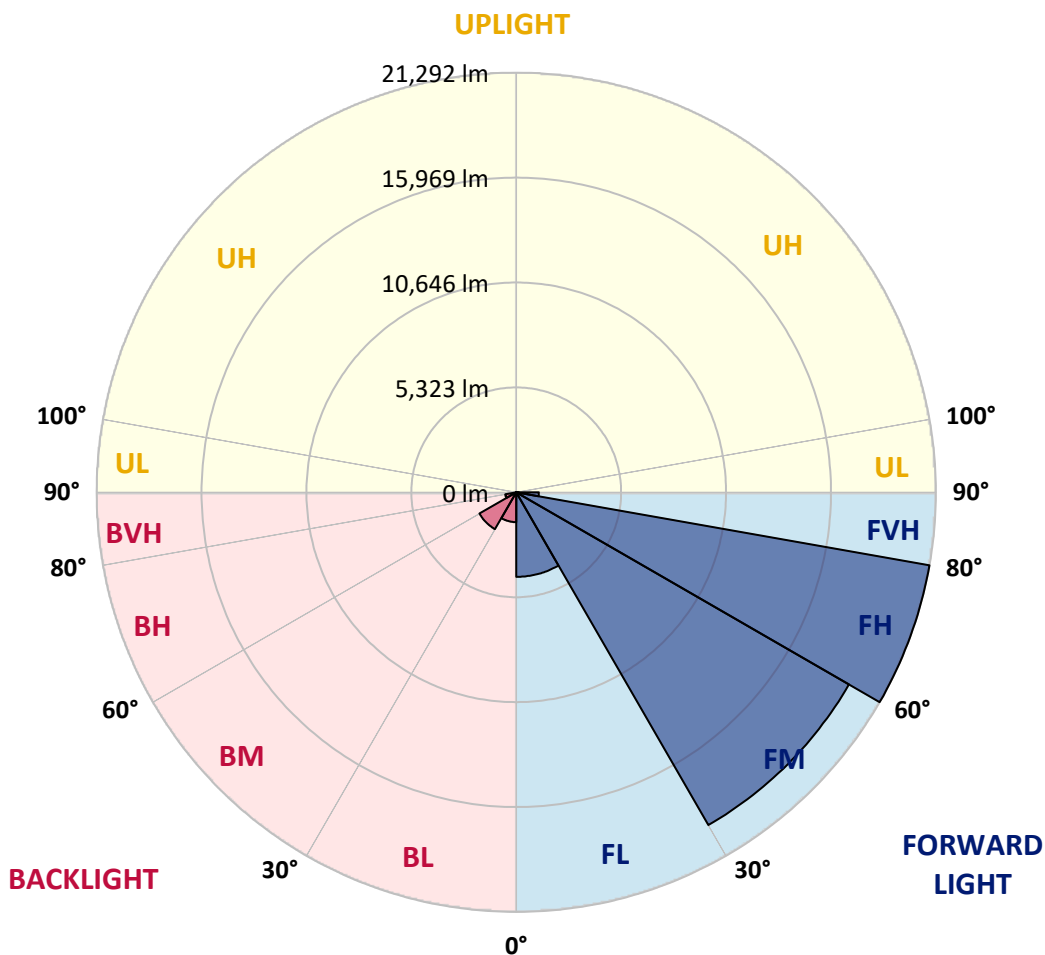


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4288.8	8.5			
FM (30°-60°)	19494.1	38.6			
FH (60°-80°)	21291.9	42.2			G5
FVH (80°-90°)	1148.8	2.3			G5
BL (0°-30°)	1512.3	3.0	B3/2500		
BM (30°-60°)	2156.8	4.3	B2/2500		
BH (60°-80°)	567.3	1.1	B2/1000		G2/1000
BVH (80°-90°)	10.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	9281.5	9281.5	9281.5	9281.5	9281.5	9281.5	9281.5	9281.5	9281.5	9281.5	9281.5
2.5°	9851.6	9853.7	9830.6	9792.9	9744.7	9719.5	9677.6	9610.5	9539.3	9411.4	9273.1
5°	10052.8	10052.8	10023.5	9973.2	9895.6	9872.5	9792.9	9686.0	9539.3	9331.8	9099.1
7.5°	10031.8	10036.0	9996.2	9943.8	9866.3	9845.3	9748.9	9629.4	9447.0	9195.5	8897.9
10°	9922.9	9933.3	9901.9	9876.7	9805.5	9782.4	9692.3	9572.8	9390.4	9122.1	8780.5
12.5°	9811.8	9822.2	9832.7	9855.8	9811.8	9803.4	9732.1	9631.5	9457.5	9178.7	8793.1
15°	9740.5	9761.5	9836.9	9927.0	9937.5	9929.1	9883.0	9788.7	9612.6	9323.4	8883.2
17.5°	9740.5	9774.0	9931.2	10103.1	10163.9	10170.2	10130.4	9998.3	9788.7	9478.5	8967.0
20°	9822.2	9868.4	10113.6	10356.7	10457.4	10457.4	10379.8	10195.3	9950.1	9618.9	9023.6
22.5°	10031.8	10092.6	10400.8	10681.6	10788.5	10765.5	10660.7	10392.4	10117.8	9778.2	9094.9
25°	10444.8	10490.9	10811.6	11094.6	11159.5	11107.1	10975.1	10631.3	10331.6	9994.1	9224.9
27.5°	10977.2	10983.5	11314.6	11553.6	11513.8	11478.1	11312.6	10931.1	10639.7	10302.2	9449.1
30°	11562.0	11562.0	11853.3	12035.7	11914.1	11884.8	11719.2	11293.7	11033.8	10721.5	9767.7
32.5°	12127.9	12153.1	12389.9	12505.2	12369.0	12339.6	12178.2	11752.7	11557.8	11360.8	10264.5
35°	12675.0	12693.9	12918.2	12981.0	12851.1	12859.5	12744.2	12383.7	12310.3	12285.1	11012.8
37.5°	13205.3	13209.5	13438.0	13477.8	13412.8	13484.1	13494.6	13176.0	13312.2	13515.5	12067.1
40°	13689.5	13693.7	13920.1	14022.8	14133.9	14226.1	14307.9	14138.1	14588.7	15060.3	13322.7
42.5°	14077.3	14121.3	14408.5	14603.4	14896.9	15072.9	15295.1	15286.7	16108.4	16816.9	14840.3
45°	14418.9	14494.4	14894.8	15236.4	15739.5	16020.4	16368.3	16640.8	17818.8	18772.5	16376.7
47.5°	14869.6	14940.9	15397.8	15957.5	16628.2	16997.1	17573.6	18162.5	19699.0	20692.5	17877.5
50°	15504.7	15473.3	15923.9	16726.7	17588.2	18072.4	18894.1	19776.5	21564.5	22365.2	18759.9
52.5°	16181.8	16169.2	16502.5	17563.1	18720.1	19286.0	20371.8	21445.0	23348.3	23518.0	19164.5
55°	17020.2	16930.1	17210.9	18516.8	20063.7	20671.6	21950.2	23096.7	24769.4	24167.8	19367.8
57.5°	17898.4	17749.6	18017.9	19579.5	21579.2	22298.1	23698.3	24706.5	25714.7	24612.2	19365.7
60°	18806.0	18630.0	18948.6	20908.4	23461.4	24293.6	25593.2	25794.4	26597.2	24836.5	19223.2
62.5°	19564.8	19460.0	19933.7	22329.6	25563.8	26381.3	27024.8	26783.7	27341.3	25010.4	18889.9
65°	20367.6	20373.9	21139.0	23987.6	27798.2	28349.5	28404.0	28066.5	27963.8	24974.8	17762.2
67.5°	21453.4	21554.0	22830.5	26238.8	29971.9	30397.4	30393.2	29456.2	28418.7	23557.9	15261.6
70°	22602.1	22838.9	24779.9	28814.8	32344.6	32776.4	32554.2	30340.8	26758.6	19049.2	10801.1
72.5°	22409.2	22820.0	25863.6	30439.3	34048.8	34377.8	32933.6	28167.1	21149.5	11071.5	4598.8
75°	17288.5	17764.3	23715.1	28829.5	32260.8	31965.2	28297.1	21918.7	11557.8	3089.6	1035.5
77.5°	9132.6	9386.3	15666.1	21962.7	25155.1	24536.7	19933.7	12159.4	3523.5	765.1	465.3
80°	4783.3	4841.9	6826.9	12461.2	15525.7	15529.9	11813.5	5340.8	1452.6	392.0	312.3
82.5°	2561.4	2611.7	3607.4	5757.9	8134.9	7374.0	4523.3	2938.7	844.7	222.2	299.7
85°	616.2	626.7	2045.8	2630.6	3198.6	2284.7	1343.6	2467.1	228.5	130.0	243.1
87.5°	236.9	241.0	758.8	1138.2	815.4	528.2	628.8	920.2	29.3	50.3	37.7
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°	9281.5	9281.5	9281.5	9281.5	9281.5	9281.5	9281.5	9281.5	9281.5	9281.5	9281.5
2.5°	9189.2	9134.7	9000.6	8830.8	8679.9	8570.9	8407.4	8300.5	8229.2	8227.1	8199.9
5°	8956.6	8845.5	8556.2	8212.4	7900.1	7619.3	7288.1	7026.1	6831.1	6799.7	6732.6
7.5°	8707.1	8524.8	8080.4	7543.8	7019.8	6487.4	5869.0	5485.4	5156.4	4999.2	4982.4
10°	8554.1	8298.4	7667.5	6891.9	6070.3	5204.6	4395.5	3835.8	3431.3	3316.0	3230.1
12.5°	8522.7	8185.2	7348.9	6279.9	5106.1	3961.6	3066.6	2471.3	2148.5	2045.8	2018.5
15°	8554.1	8132.8	7080.6	5674.1	4129.3	2810.8	2058.4	1712.5	1590.9	1561.6	1559.5
17.5°	8573.0	8069.9	6776.6	5001.3	3181.9	2008.0	1576.3	1475.6	1456.8	1454.7	1458.9
20°	8570.9	7973.5	6414.0	4250.9	2366.5	1578.3	1425.3	1404.4	1400.2	1402.3	1400.2
22.5°	8556.2	7860.3	6015.8	3477.4	1788.0	1410.7	1360.4	1347.8	1345.7	1345.7	1345.7
25°	8583.5	7770.2	5577.7	2737.5	1473.5	1333.1	1301.7	1291.2	1289.1	1289.1	1284.9
27.5°	8682.0	7719.9	5097.7	2106.6	1331.0	1263.9	1238.8	1236.7	1230.4	1228.3	1232.5
30°	8841.3	7719.9	4571.6	1639.1	1245.1	1192.7	1173.8	1169.6	1167.5	1165.4	1167.5
32.5°	9122.1	7778.6	3997.2	1362.5	1163.3	1113.0	1100.4	1106.7	1100.4	1100.4	1100.4
35°	9629.4	7954.6	3395.7	1188.5	1077.4	1035.5	1022.9	1031.3	1027.1	1027.1	1025.0
37.5°	10369.3	8281.6	2789.9	1083.7	1001.9	957.9	941.1	953.7	949.5	949.5	947.4
40°	11270.6	8757.4	2213.5	1004.0	928.6	882.5	867.8	874.1	863.6	863.6	867.8
42.5°	12383.7	9361.1	1710.4	926.5	855.2	811.2	802.8	796.5	777.6	767.2	769.3
45°	13620.3	9989.9	1333.1	851.0	786.0	750.4	737.8	721.1	689.6	668.7	670.7
47.5°	14725.0	10474.1	1083.7	777.6	723.1	695.9	677.0	645.6	599.5	574.3	576.4
50°	15305.6	10547.5	922.3	704.3	664.5	637.2	610.0	561.7	507.3	480.0	477.9
52.5°	15454.4	10203.7	802.8	637.2	605.8	574.3	538.7	473.7	412.9	383.6	379.4
55°	15508.9	9679.7	695.9	574.3	542.9	507.3	461.1	387.8	331.2	301.8	299.7
57.5°	15328.6	8897.9	612.1	517.7	480.0	436.0	379.4	310.2	255.7	232.7	232.7
60°	14928.3	7839.3	547.1	456.9	415.0	364.7	306.0	241.0	190.7	171.9	171.9
62.5°	14129.7	6468.5	486.3	394.1	354.2	301.8	247.3	182.4	134.1	123.7	125.8
65°	12622.6	4906.9	425.5	337.5	301.8	249.4	192.8	130.0	90.1	90.1	94.3
67.5°	10293.9	3408.2	362.6	287.2	259.9	203.3	146.7	90.1	62.9	71.3	79.7
70°	6814.4	1911.6	310.2	236.9	222.2	161.4	109.0	60.8	50.3	67.1	81.7
72.5°	2571.9	744.1	259.9	190.7	192.8	123.7	77.6	46.1	46.1	73.4	96.4
75°	716.9	364.7	186.6	140.4	150.9	90.1	56.6	39.8	44.0	83.8	113.2
77.5°	421.3	268.3	121.6	81.7	102.7	62.9	37.7	31.4	37.7	71.3	109.0
80°	339.6	142.5	71.3	41.9	56.6	35.6	25.2	18.9	10.5	27.2	56.6
82.5°	339.6	85.9	33.5	29.3	29.3	18.9	12.6	8.4	2.1	0.0	14.7
85°	228.5	35.6	21.0	18.9	14.7	6.3	4.2	2.1	0.0	0.0	0.0
87.5°	37.7	14.7	8.4	4.2	2.1	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)