

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: P320922

Luminaire Tested: **GAN-SA8B-730-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8B-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42791 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

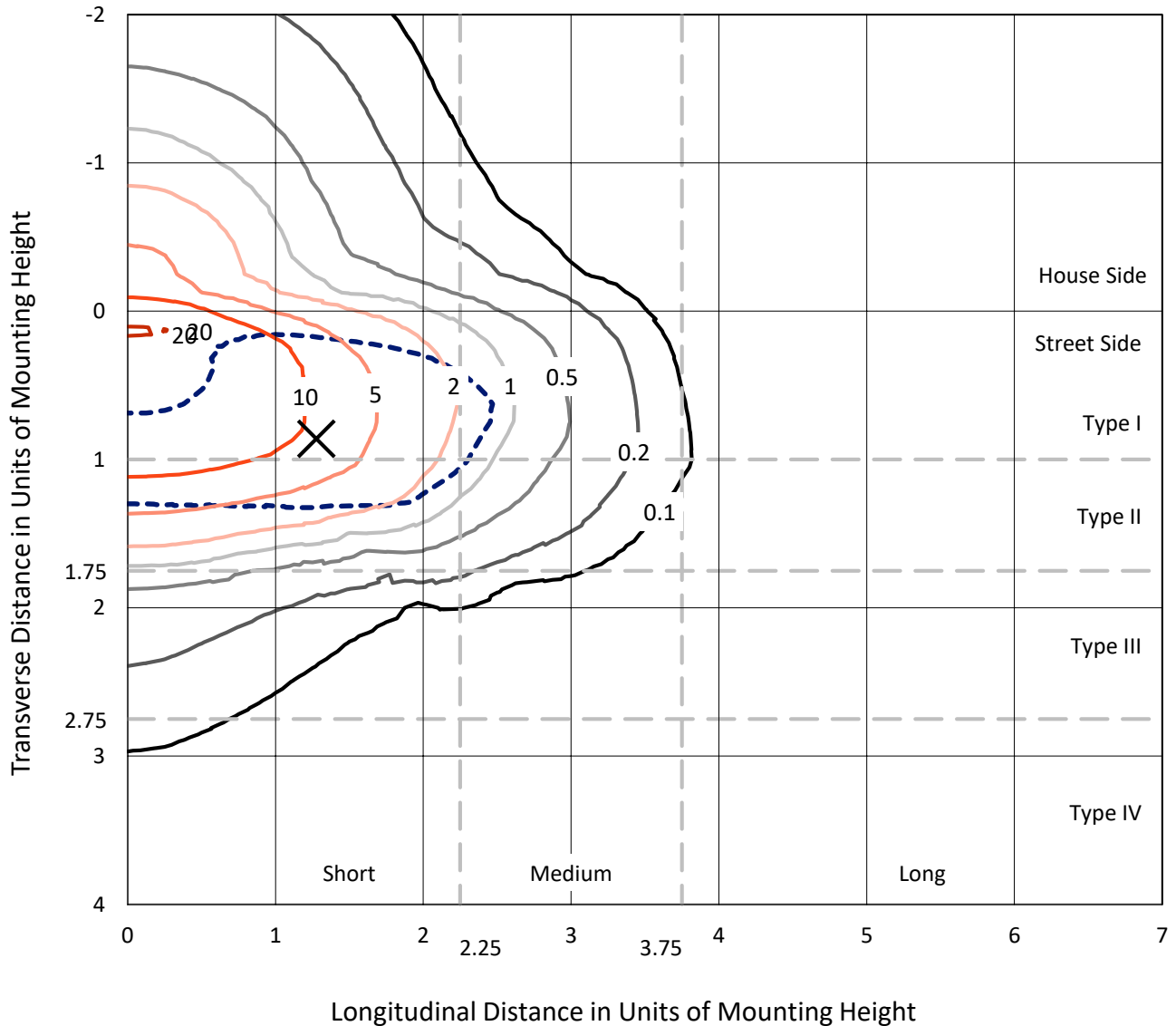
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

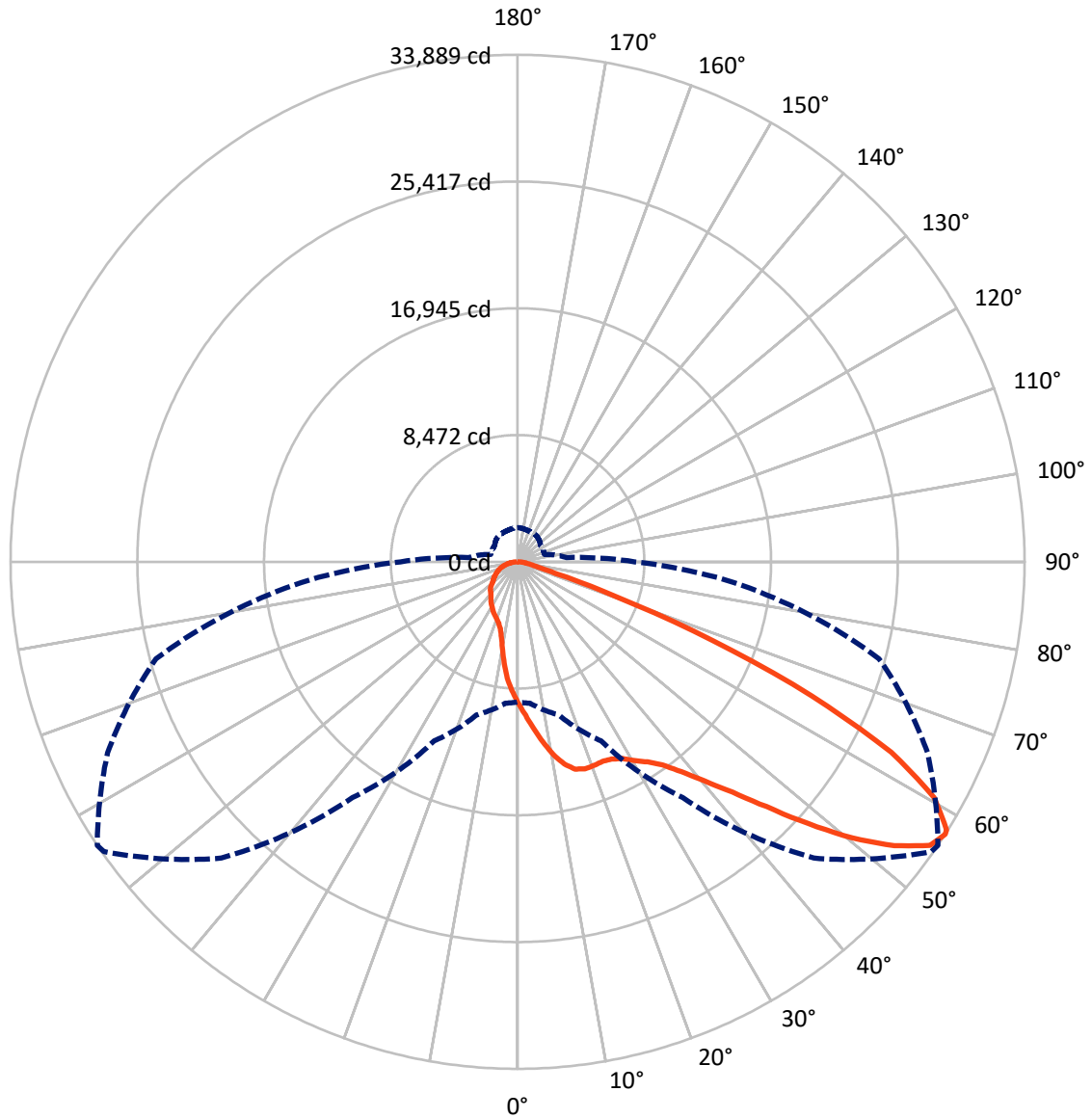
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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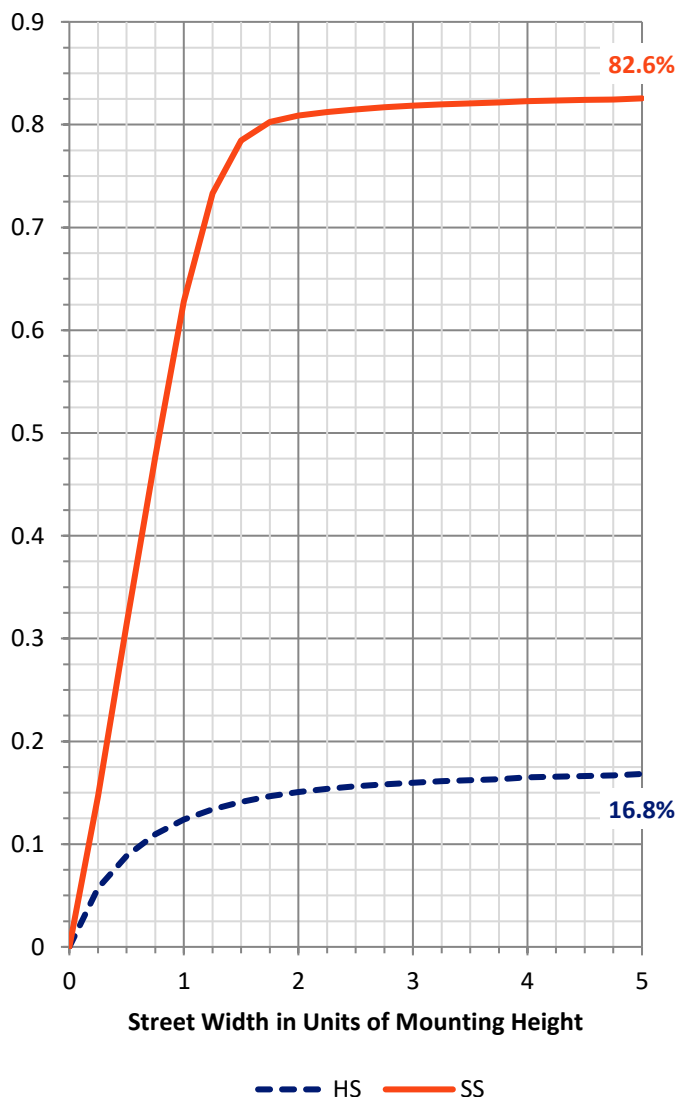
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7376.3	0.0	7376.3
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	35414.8	0.0	35414.8
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	42791.0	0.0	42791.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	906.6	2.1
10°-20°	2563.3	6.0
20°-30°	4175.1	9.8
30°-40°	6241.3	14.6
40°-50°	9466.7	22.1
50°-60°	10610.5	24.8
60°-70°	6267.0	14.6
70°-80°	2053.3	4.8
80°-90°	507.3	1.2
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°	42791.0	100.0
0°-180°	42791.0	100.0

**Coefficient of Utilization**

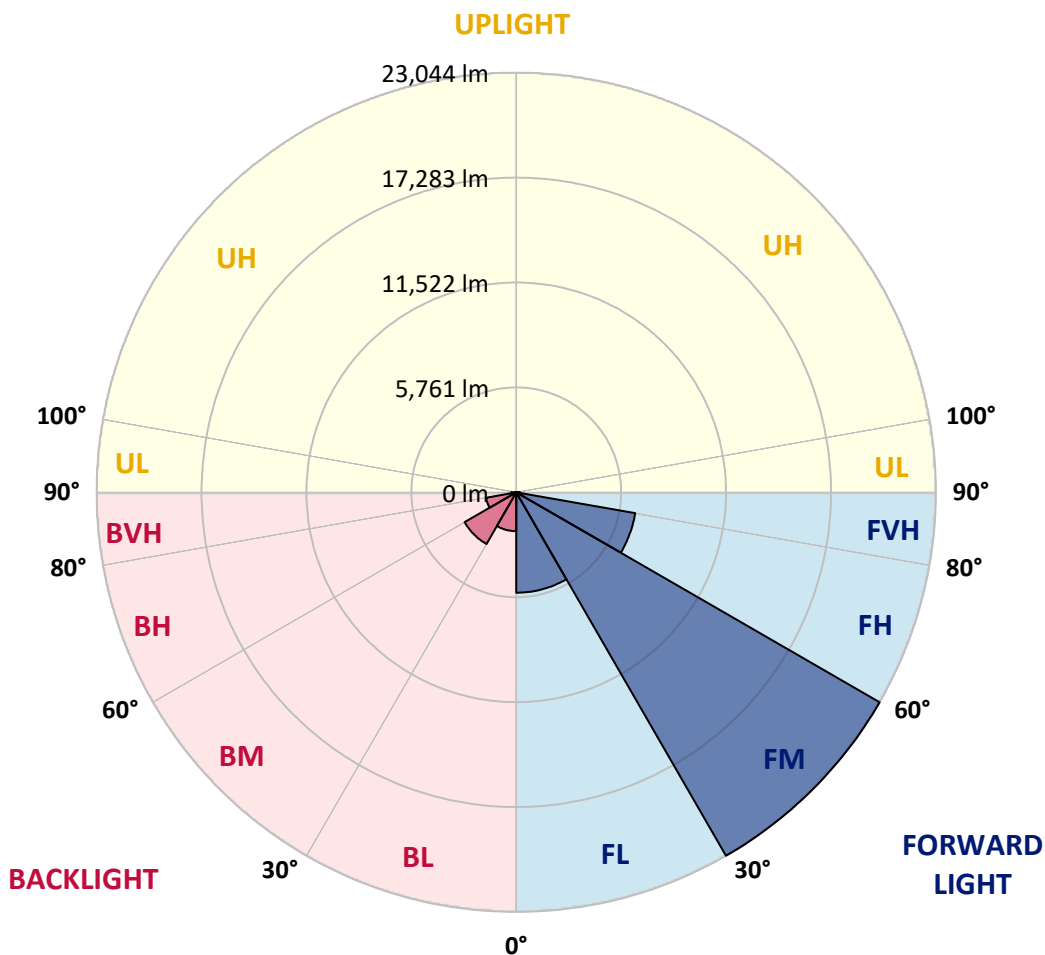


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5512.1	12.9			
FM (30°-60°)	23044.4	53.9			
FH (60°-80°)	6634.9	15.5			G3/7500
FVH (80°-90°)	223.4	0.5			G2/225
BL (0°-30°)	2132.9	5.0	B3/2500		
BM (30°-60°)	3274.1	7.7	B3/5000		
BH (60°-80°)	1685.4	3.9	B3/2500		G3/2500
BVH (80°-90°)	283.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9491.1	9491.1	9491.1	9491.1	9491.1	9491.1	9491.1	9491.1	9491.1	9491.1	9491.1
2.5°	10898.4	10998.4	10954.3	10801.4	10683.7	10517.5	10332.3	10276.4	10080.8	9861.7	9598.4
5°	12623.4	12573.4	12501.3	12263.1	12011.6	11719.0	11254.3	11180.8	10745.5	10249.9	9726.4
7.5°	13605.7	13601.3	13558.7	13419.0	13189.6	12807.2	12246.9	12160.2	11502.8	10705.8	9894.0
10°	13463.1	13452.8	13523.4	13669.0	13738.1	13658.7	13186.6	13099.9	12292.5	11210.2	10088.1
12.5°	12652.8	12658.7	12771.9	13077.8	13494.0	13994.0	13917.5	13874.9	13111.6	11780.8	10323.4
15°	12021.9	12035.2	12124.9	12391.1	12882.2	13789.6	14361.6	14376.3	13904.3	12410.2	10598.4
17.5°	11745.5	11773.4	11814.6	12001.4	12451.3	13382.2	14467.5	14546.9	14598.4	13063.1	10863.1
20°	11833.7	11860.2	11871.9	11991.1	12360.2	13135.2	14394.0	14536.6	15130.7	13677.8	11127.8
22.5°	12229.3	12245.5	12252.8	12283.7	12570.5	13205.8	14345.4	14495.4	15516.0	14229.3	11327.8
25°	12885.2	12873.4	12826.3	12786.6	12979.3	13485.2	14457.2	14599.9	15829.3	14729.3	11458.7
27.5°	13670.5	13655.7	13564.6	13455.7	13566.0	13920.5	14779.3	14892.5	16110.1	15196.9	11524.9
30°	14613.1	14574.9	14402.8	14273.4	14316.0	14573.4	15310.1	15413.1	16544.0	15727.8	11589.6
32.5°	15702.8	15661.6	15413.1	15198.4	15198.4	15413.1	15857.2	15942.5	16911.6	16327.8	11694.0
35°	17067.5	17016.0	16692.5	16332.2	16230.7	16339.5	16602.8	16663.1	17573.4	17083.7	11883.7
37.5°	18676.3	18607.2	18188.1	17705.7	17483.7	17477.8	17667.5	17791.0	18630.7	18076.3	12205.8
40°	20289.5	20241.0	19874.8	19495.4	19060.1	18920.4	19213.0	19251.3	20013.0	19308.6	12617.5
42.5°	21536.6	21527.7	21460.1	21510.1	21064.5	20782.1	21011.6	21042.4	21701.3	20642.4	13055.8
45°	22195.4	22210.1	22538.0	23264.5	23429.2	23223.3	23336.5	23345.4	23630.6	21988.0	13457.2
47.5°	21667.4	21743.9	22573.3	24198.3	25546.8	26230.6	26042.4	26151.2	25501.2	23143.9	13771.9
50°	19610.1	19704.2	21116.0	23782.1	26535.0	29140.9	29042.4	29017.4	27010.0	23990.9	13942.5
52.5°	17061.6	17135.1	18299.8	21618.9	25810.0	30749.7	31654.1	31524.7	28351.2	24624.8	13974.9
55°	13180.8	13295.5	14411.6	17301.3	22877.7	30135.0	33574.7	33458.5	29573.2	24957.1	13936.6
57°	9370.5	9491.1	10599.9	13204.3	19245.4	28007.1	33765.8	33889.4	30233.5	25013.0	13979.3
57.5°	8361.7	8485.2	9583.7	12113.1	18113.1	27238.0	33601.1	33807.0	30352.6	25004.2	14002.8
60°	4210.3	4257.3	4957.3	6761.7	11449.9	22020.4	31452.6	31983.5	30460.0	24571.8	14104.3
62.5°	2617.6	2583.8	2561.7	3114.7	5570.5	14602.8	27018.9	28040.9	28405.6	23524.8	13858.7
65°	2301.4	2238.2	1995.6	1951.5	2460.3	7092.6	20346.9	21618.9	24015.9	21874.8	13273.4
67.5°	2161.7	2100.0	1826.5	1661.7	1663.2	2811.7	12632.2	14064.6	18708.6	19085.1	11892.5
70°	2017.6	1961.7	1705.9	1511.7	1416.2	1557.3	5811.7	6898.5	12195.5	15001.3	9939.6
72.5°	1832.3	1794.1	1551.5	1351.5	1250.0	1166.2	2225.0	2627.9	7060.2	10074.9	6902.9
75°	1638.2	1602.9	1395.6	1204.4	1080.9	917.6	1252.9	1350.0	3586.7	5154.4	3398.5
77.5°	1425.0	1404.4	1241.2	1064.7	966.2	760.3	886.8	933.8	1538.2	2210.3	1704.4
80°	1133.8	1173.5	1085.3	948.5	857.3	608.8	627.9	658.8	895.6	1079.4	967.6
82.5°	738.2	807.3	850.0	770.6	705.9	479.4	451.5	464.7	583.8	658.8	420.6
85°	307.3	345.6	558.8	504.4	469.1	350.0	302.9	308.8	361.8	375.0	172.1
87.5°	136.8	145.6	245.6	230.9	198.5	120.6	129.4	141.2	192.6	182.4	66.2
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°	9491.1	9491.1	9491.1	9491.1	9491.1	9491.1	9491.1	9491.1	9491.1	9491.1	9491.1
2.5°	9499.9	9376.4	9164.6	8930.8	8739.6	8586.7	8432.3	8326.4	8202.9	8136.7	8102.9
5°	9507.3	9264.6	8819.0	8361.7	7952.9	7579.3	7223.5	6949.9	6694.1	6555.8	6517.6
7.5°	9538.1	9173.4	8452.9	7699.9	6973.5	6310.2	5798.5	5477.9	5247.0	5144.1	5114.7
10°	9563.1	9066.1	7999.9	6885.2	5897.0	5224.9	4827.9	4648.5	4569.1	4555.8	4542.6
12.5°	9622.0	8955.8	7523.5	6035.2	5060.2	4595.5	4457.3	4445.5	4467.6	4500.0	4500.0
15°	9714.6	8847.0	6979.3	5305.8	4527.9	4364.7	4392.6	4457.3	4517.6	4567.6	4575.0
17.5°	9782.3	8713.1	6394.1	4722.0	4244.1	4288.2	4388.2	4479.4	4541.1	4589.7	4594.1
20°	9830.8	8505.8	5769.1	4276.4	4080.8	4217.6	4342.6	4423.5	4466.1	4514.7	4522.0
22.5°	9805.8	8227.9	5214.7	3957.3	3948.5	4114.7	4233.8	4330.8	4298.5	4251.4	4282.3
25°	9685.2	7845.5	4644.1	3719.1	3808.8	3976.4	4123.5	4058.8	3950.0	3929.4	3941.1
27.5°	9470.5	7357.3	4116.1	3498.5	3647.0	3848.5	3839.7	3775.0	3736.7	3710.3	3726.4
30°	9239.6	6827.9	3654.4	3305.8	3467.6	3633.8	3600.0	3598.5	3560.3	3517.6	3538.2
32.5°	9011.7	6295.5	3288.2	3147.0	3332.3	3354.4	3427.9	3450.0	3375.0	3285.3	3279.4
35°	8813.1	5792.6	3010.3	3002.9	3169.1	3172.0	3279.4	3248.5	3061.7	2969.1	2969.1
37.5°	8664.6	5291.1	2798.5	2873.5	2954.4	3030.9	3085.3	2957.3	2926.4	2875.0	2873.5
40°	8599.9	4850.0	2666.2	2775.0	2802.9	2900.0	2760.3	2810.3	2825.0	2798.5	2798.5
42.5°	8532.3	4466.1	2551.4	2700.0	2695.6	2682.3	2611.7	2676.4	2735.3	2736.7	2732.3
45°	8464.6	4135.3	2450.0	2539.7	2601.4	2458.8	2472.0	2541.2	2623.5	2652.9	2652.9
47.5°	8389.6	3873.5	2357.3	2370.6	2466.2	2370.6	2360.3	2413.2	2510.3	2557.3	2567.6
50°	8224.9	3638.2	2251.4	2222.0	2248.5	2280.9	2289.7	2314.7	2422.0	2497.0	2514.7
52.5°	7997.0	3427.9	2116.2	2085.3	2085.3	2207.3	2248.5	2255.9	2347.0	2436.7	2454.4
55°	7807.3	3294.1	1976.5	1970.6	1964.7	2129.4	2200.0	2211.7	2275.0	2345.6	2354.4
57°	7820.5	3283.8	1869.1	1875.0	1873.5	2050.0	2154.4	2179.4	2211.7	2272.0	2282.3
57.5°	7827.9	3291.1	1845.6	1848.5	1847.0	2027.9	2141.2	2169.1	2194.1	2257.3	2267.6
60°	7938.2	3310.3	1750.0	1717.6	1725.0	1910.3	2066.2	2101.4	2117.6	2201.4	2214.7
62.5°	7774.9	3225.0	1673.5	1595.6	1595.6	1786.7	1961.7	2017.6	2042.6	2155.9	2177.9
65°	7301.4	2985.3	1583.8	1457.3	1472.0	1663.2	1836.7	1927.9	1966.2	2107.3	2130.9
67.5°	6570.5	2707.3	1488.2	1333.8	1348.5	1533.8	1707.3	1805.9	1866.2	2054.4	2073.5
70°	5619.1	2367.6	1358.8	1202.9	1220.6	1392.6	1554.4	1666.2	1755.9	2004.4	2010.3
72.5°	4142.6	1941.2	1177.9	1058.8	1077.9	1227.9	1400.0	1529.4	1650.0	1879.4	1876.5
75°	2463.2	1517.6	977.9	913.2	926.5	1066.2	1260.3	1417.6	1598.5	1830.9	1858.8
77.5°	1494.1	1142.6	797.1	764.7	780.9	923.5	1160.3	1327.9	1576.5	1726.5	1717.6
80°	902.9	816.2	636.8	616.2	632.3	789.7	1073.5	1260.3	1377.9	1475.0	1475.0
82.5°	472.1	498.5	467.6	451.5	473.5	641.2	976.5	1100.0	1217.6	1045.6	976.5
85°	192.6	260.3	283.8	282.4	295.6	444.1	842.6	941.2	785.3	745.6	763.2
87.5°	64.7	110.3	138.2	119.1	125.0	279.4	583.8	454.4	539.7	376.5	357.3
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)