

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: P318362

Luminaire Tested: **GAN-SA8B-730-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8B-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41718 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

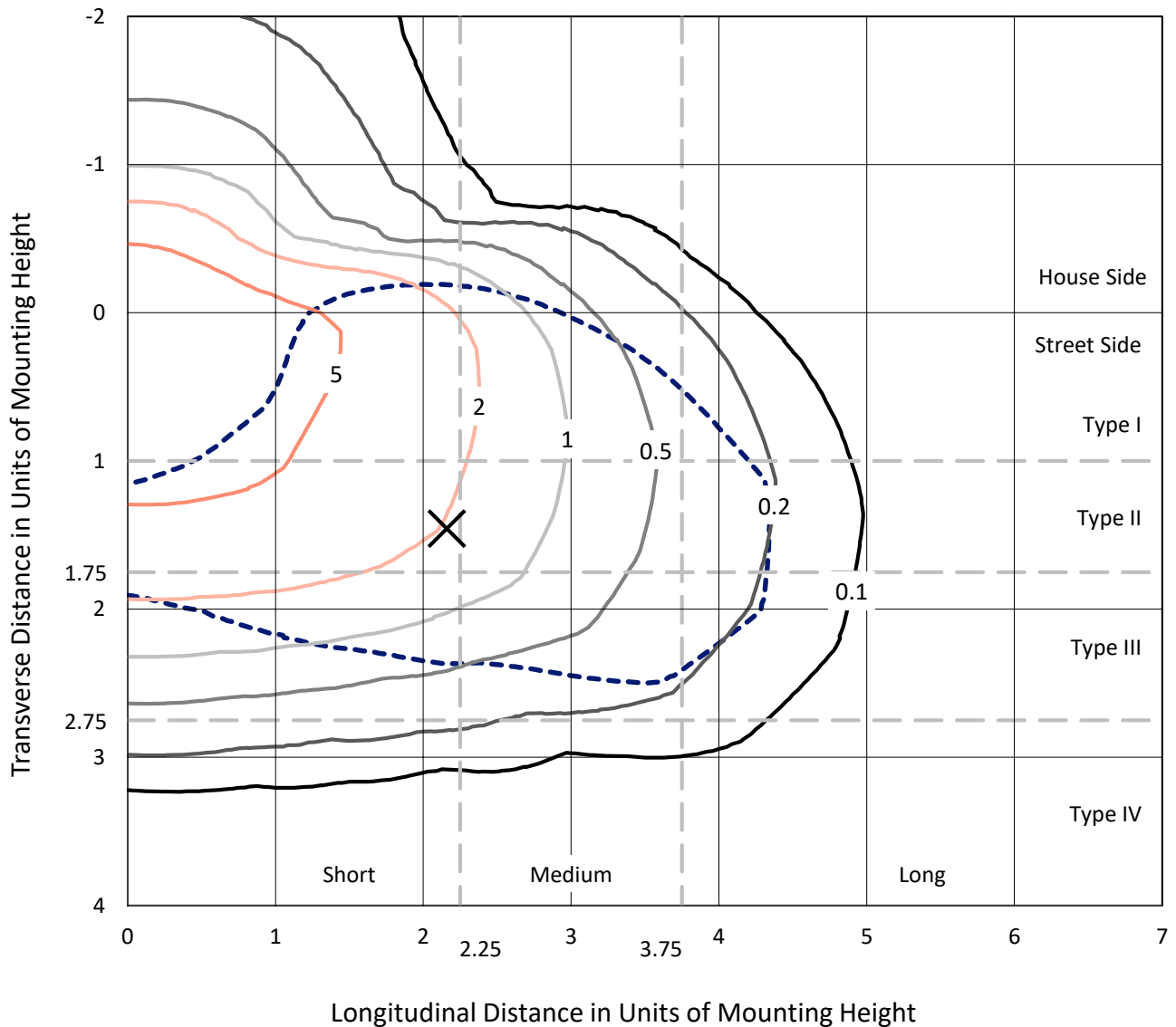
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

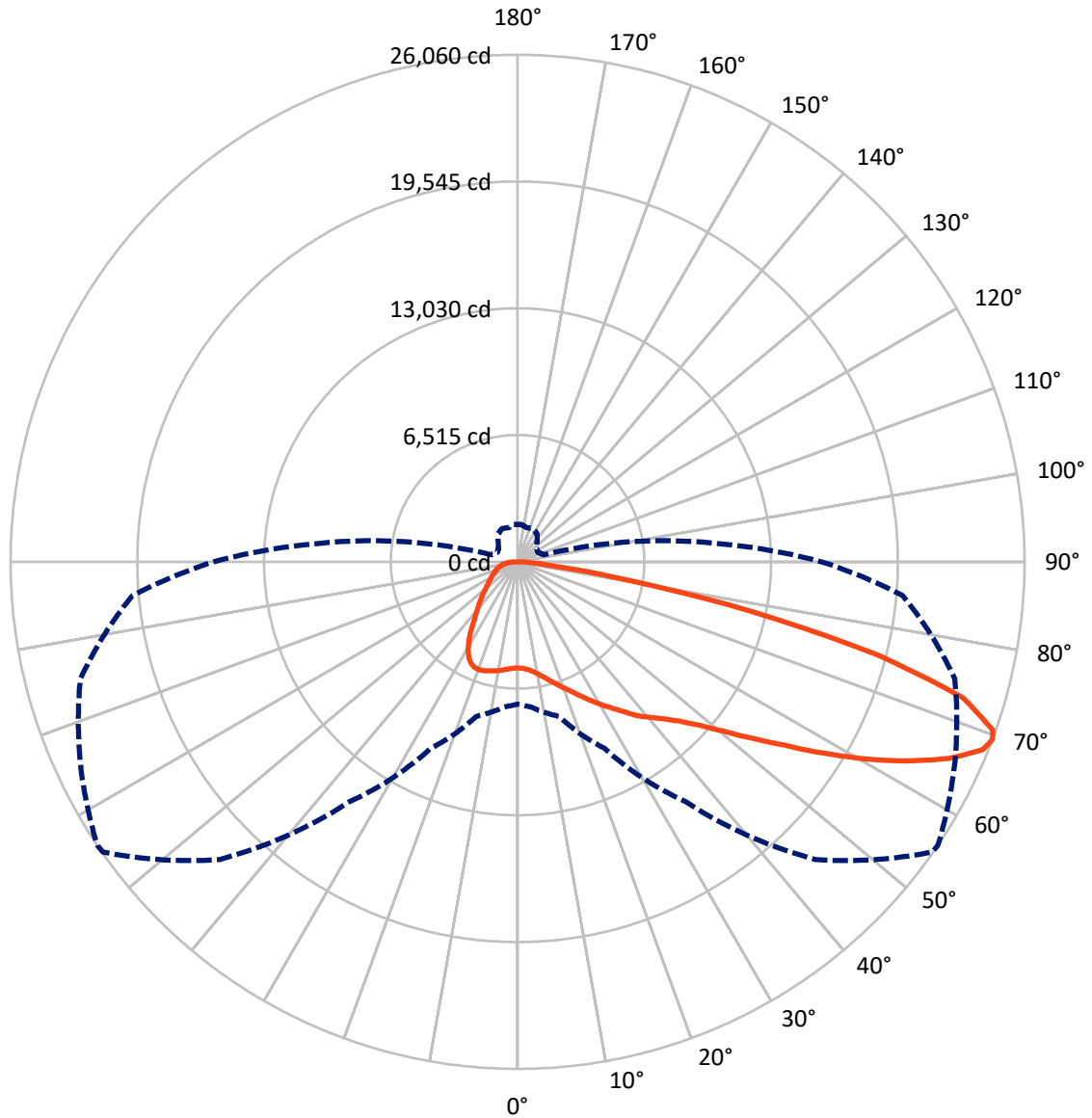
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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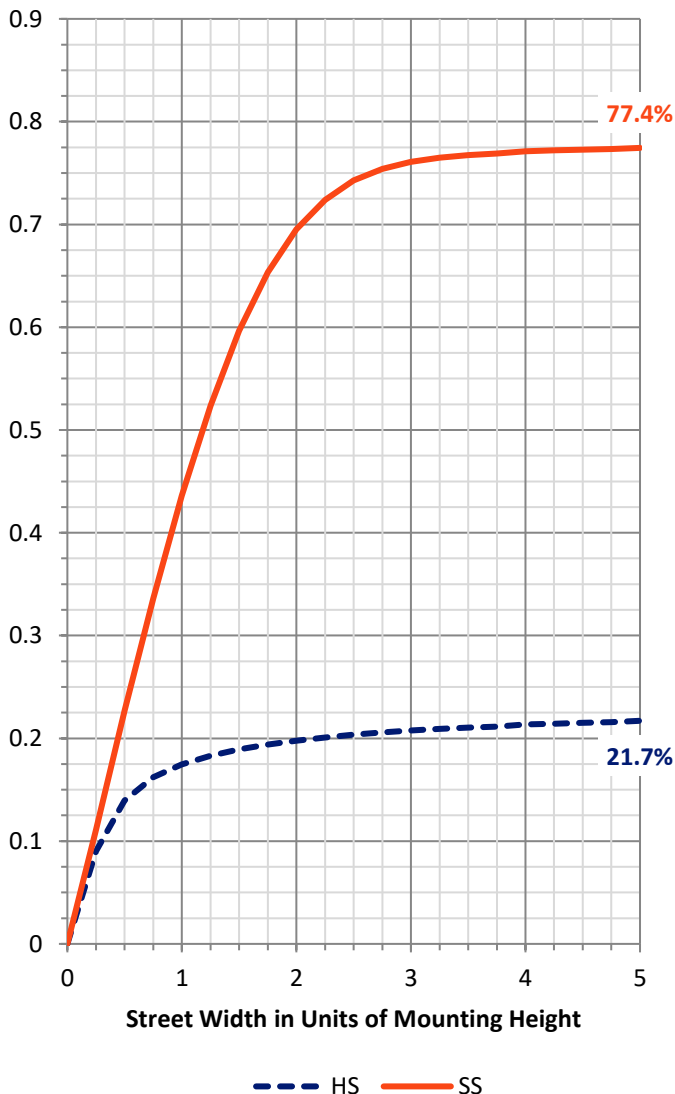
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9290.5	0.0	9290.5
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	32427.5	0.0	32427.5
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	41718.0	0.0	41718.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.7	1.3
10°-20°	1722.5	4.1
20°-30°	3006.8	7.2
30°-40°	4319.2	10.4
40°-50°	5977.5	14.3
50°-60°	8757.9	21.0
60°-70°	10677.5	25.6
70°-80°	5903.2	14.2
80°-90°	817.6	2.0
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°	41718.0	100.0
0°-180°	41718.0	100.0

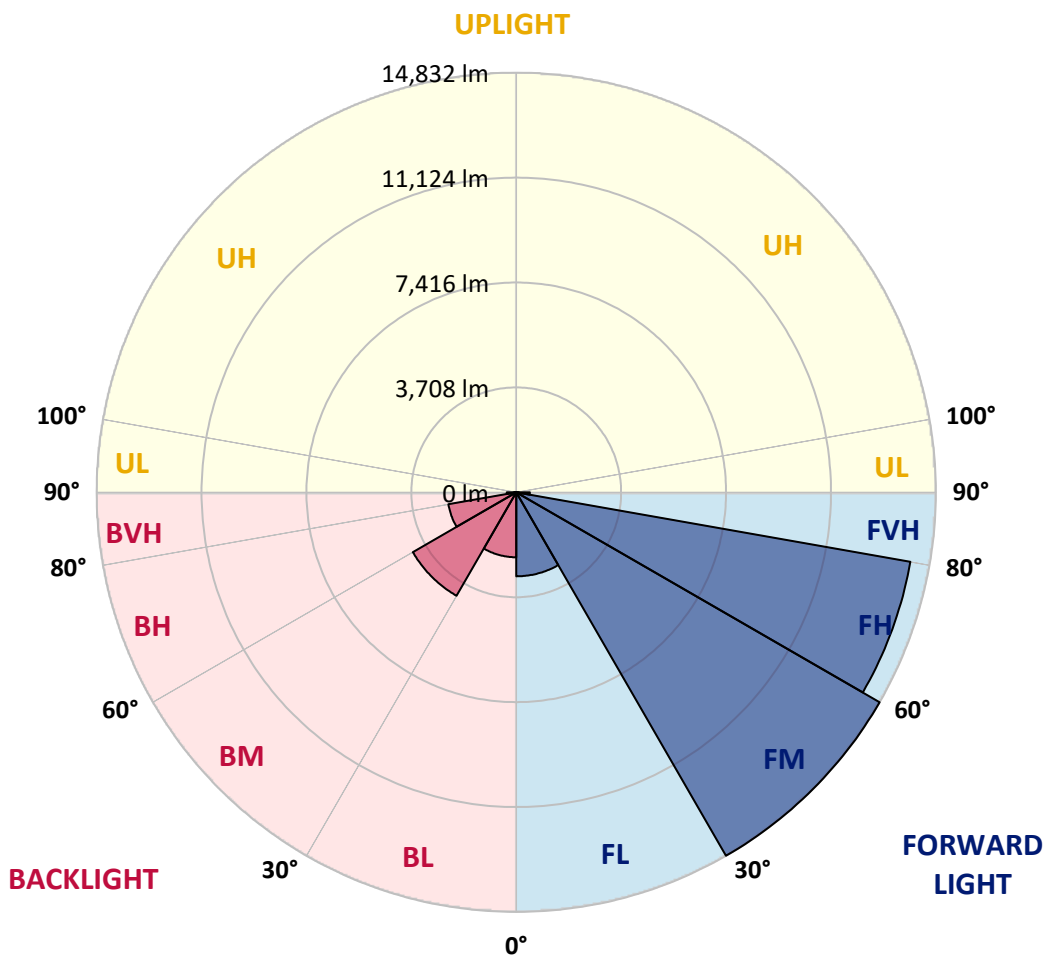


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2969.1	7.1			
FM (30°-60°)	14832.3	35.6			
FH (60°-80°)	14144.5	33.9			G5
FVH (80°-90°)	481.6	1.2			G3/500
BL (0°-30°)	2295.9	5.5	B3/2500		
BM (30°-60°)	4222.3	10.1	B3/5000		
BH (60°-80°)	2436.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	336.0	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0
2.5°	5488.5	5494.2	5489.9	5501.4	5488.5	5497.1	5489.9	5489.9	5485.6	5472.7	5458.3
5°	5574.7	5586.2	5579.0	5590.5	5574.7	5577.6	5564.7	5564.7	5551.7	5524.4	5495.7
7.5°	5709.8	5722.7	5717.0	5728.5	5706.9	5706.9	5689.7	5688.3	5662.4	5617.8	5584.8
10°	5870.8	5888.0	5882.3	5899.5	5882.3	5888.0	5870.8	5870.8	5836.3	5773.0	5731.4
12.5°	6105.0	6126.6	6110.8	6109.3	6102.2	6113.7	6099.3	6096.4	6064.8	5978.6	5921.1
15°	6418.3	6441.3	6408.3	6405.4	6365.2	6360.8	6360.8	6356.5	6336.4	6232.9	6138.1
17.5°	6779.1	6786.2	6757.5	6711.5	6659.8	6626.7	6622.4	6633.9	6633.9	6513.2	6362.3
20°	7132.6	7145.5	7122.5	7070.8	7004.7	6955.8	6921.3	6944.3	6942.9	6799.2	6585.0
22.5°	7517.8	7547.9	7513.4	7447.3	7369.7	7315.1	7254.8	7274.9	7276.3	7099.5	6803.5
25°	8016.4	7989.1	7967.6	7874.2	7763.5	7707.5	7651.4	7671.5	7665.8	7422.9	7029.1
27.5°	8457.7	8463.4	8434.7	8335.5	8207.6	8084.0	8081.1	8094.1	8072.5	7759.2	7241.8
30°	8970.7	8973.6	8933.4	8844.2	8704.8	8545.3	8508.0	8529.5	8483.5	8078.2	7466.0
32.5°	9480.9	9495.3	9450.7	9342.9	9230.8	9036.8	8962.1	8976.5	8861.5	8404.5	7697.4
35°	9927.9	9948.0	9933.6	9861.8	9739.6	9572.9	9483.8	9475.2	9332.9	8804.0	8003.5
37.5°	10383.4	10402.1	10386.3	10326.0	10277.1	10100.3	10052.9	10052.9	9805.7	9212.2	8393.0
40°	10852.0	10880.7	10862.0	10778.7	10737.0	10656.5	10543.0	10515.7	10248.3	9702.2	9028.2
42.5°	11287.4	11324.8	11399.5	11350.6	11265.9	11277.3	11048.8	11034.5	10839.0	10426.6	9825.8
45°	11905.4	11960.0	12086.5	12049.1	12031.9	11968.6	11697.0	11684.1	11609.3	11400.9	10816.0
47.5°	12579.4	12654.1	12882.7	12889.8	13075.2	12955.9	12586.6	12542.0	12559.3	12567.9	12024.7
50°	13200.3	13282.2	13657.3	13834.0	14270.9	14296.8	13706.1	13665.9	13733.4	13931.8	13433.1
52.5°	13696.1	13799.6	14268.1	14814.2	15562.9	15775.6	15084.4	15054.2	15104.5	15446.5	15025.4
55°	14059.7	14171.8	14682.0	15676.5	16872.2	17247.3	16671.0	16642.2	16673.9	17109.3	16757.2
57.5°	14144.5	14171.8	14911.9	16257.1	17977.4	18878.5	18612.6	18555.1	18399.9	18779.3	18668.6
60°	13746.4	13855.6	14722.2	16461.2	18832.5	20486.6	20641.8	20570.0	20134.5	20445.0	20355.9
62.5°	12938.7	13134.2	14013.7	16150.7	19167.3	21800.2	22632.3	22546.1	21795.9	21997.1	21568.8
65°	11619.4	11702.7	12626.8	15080.1	18741.9	22640.9	24407.2	24364.1	23419.9	23105.1	21793.0
67.5°	9259.6	9416.2	10200.9	12842.4	17001.5	22541.8	25779.7	25775.4	24480.5	23516.2	20998.3
69°	7315.1	7477.5	8224.8	10578.9	15044.1	21634.9	26009.6	26059.9	24779.4	23266.1	19862.9
70°	5832.0	6020.2	6533.3	8910.4	13306.6	20439.2	25818.5	25909.0	24721.9	22853.6	18815.2
72.5°	2482.0	2634.3	2999.3	4593.1	8109.9	15262.6	23606.7	23948.7	23389.7	20916.3	15550.0
75°	1083.6	1131.0	1296.3	1872.6	3600.1	8306.8	18493.3	19125.6	19999.4	17679.9	11583.5
77.5°	793.3	813.4	904.0	1099.4	1615.4	3137.3	11892.5	12260.4	14423.3	12865.4	7105.3
80°	613.7	628.0	698.5	807.7	1054.9	1269.0	5423.8	5740.0	8109.9	6608.0	2959.1
82.5°	488.6	498.7	547.6	595.0	728.6	768.9	1800.8	1997.6	2993.6	1825.2	783.2
85°	454.1	465.6	482.9	434.0	467.1	451.3	778.9	814.9	904.0	717.1	327.7
87.5°	205.5	242.9	478.6	337.7	248.6	198.3	319.0	333.4	375.1	376.5	145.2
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°	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0
2.5°	5466.9	5462.6	5469.8	5452.6	5474.1	5472.7	5465.5	5468.4	5482.7	5481.3	5482.7
5°	5500.0	5497.1	5505.7	5492.8	5518.7	5527.3	5528.7	5541.7	5557.5	5561.8	5561.8
7.5°	5583.3	5583.3	5587.7	5570.4	5587.7	5586.2	5579.0	5592.0	5607.8	5609.2	5607.8
10°	5727.1	5728.5	5721.3	5676.8	5662.4	5623.6	5587.7	5589.1	5609.2	5625.0	5629.3
12.5°	5908.1	5902.4	5870.8	5788.9	5728.5	5649.5	5612.1	5610.7	5630.8	5643.7	5648.0
15°	6115.1	6099.3	6017.4	5883.7	5777.4	5699.8	5639.4	5625.0	5613.5	5599.2	5600.6
17.5°	6310.5	6274.6	6138.1	5952.7	5840.6	5737.1	5620.7	5527.3	5462.6	5425.3	5413.8
20°	6508.9	6438.5	6241.6	6017.4	5875.1	5686.8	5462.6	5272.9	5155.1	5100.5	5090.4
22.5°	6690.0	6576.4	6337.9	6084.9	5847.8	5517.2	5165.1	4889.2	4725.4	4652.1	4657.8
25°	6866.7	6708.6	6438.5	6132.3	5709.8	5218.3	4751.2	4412.1	4222.4	4140.4	4137.6
27.5°	7021.9	6842.3	6547.7	6093.5	5452.6	4792.9	4261.2	3930.6	3772.5	3702.1	3690.6
30°	7200.1	7010.4	6692.8	5945.5	5076.0	4301.4	3782.6	3549.8	3437.7	3367.3	3354.3
32.5°	7417.2	7238.9	6812.1	5676.8	4594.6	3788.3	3408.9	3246.5	3144.5	3065.5	3051.1
35°	7733.3	7540.7	6842.3	5291.6	4065.7	3383.1	3134.4	2967.7	2829.8	2727.7	2717.7
37.5°	8130.0	7918.7	6773.3	4792.9	3552.6	3120.1	2905.9	2700.4	2520.8	2377.1	2354.1
40°	8702.0	8382.9	6582.2	4218.0	3174.7	2917.4	2683.2	2448.9	2226.2	2058.0	2025.0
42.5°	9388.9	8927.6	6289.0	3646.1	2897.3	2711.9	2461.8	2171.5	1958.8	1839.6	1822.3
45°	10262.7	9493.8	5882.3	3145.9	2624.2	2506.4	2223.3	1956.0	1823.7	1736.1	1721.7
47.5°	11260.1	10129.1	5455.4	2739.2	2392.9	2313.8	2032.1	1859.7	1754.8	1685.8	1672.8
50°	12486.0	10846.2	5002.7	2405.8	2160.0	2082.4	1941.6	1806.5	1723.1	1670.0	1657.0
52.5°	13868.5	11655.3	4676.5	2142.8	1967.5	1911.4	1894.2	1777.8	1710.2	1670.0	1657.0
55°	15357.4	12478.8	4324.4	1921.5	1800.8	1816.6	1862.6	1780.6	1734.6	1685.8	1667.1
57.5°	16847.8	13329.6	3932.1	1734.6	1668.5	1746.1	1841.0	1786.4	1747.6	1700.2	1682.9
60°	18026.2	13868.5	3324.1	1578.0	1563.6	1668.5	1789.3	1743.3	1693.0	1694.4	1691.5
62.5°	18576.7	13839.8	2653.0	1438.6	1458.7	1563.6	1705.9	1675.7	1634.0	1690.1	1694.4
65°	18267.7	13150.0	2065.2	1312.1	1346.6	1454.4	1619.7	1642.7	1657.0	1764.8	1779.2
67.5°	16971.4	11807.7	1599.6	1201.5	1244.6	1379.7	1628.3	1789.3	1807.9	1921.5	1920.0
69°	15630.5	10548.7	1389.7	1144.0	1194.3	1398.4	1740.4	1882.7	1812.3	1933.0	1915.7
70°	14506.6	9552.8	1277.6	1105.2	1171.3	1431.4	1815.1	1881.2	1790.7	1894.2	1865.4
72.5°	11172.4	6872.5	1083.6	1033.3	1093.7	1369.6	1836.7	1839.6	1740.4	1760.5	1711.7
75°	7662.9	4343.1	945.6	935.6	975.8	1234.5	1767.7	1757.6	1609.6	1580.9	1540.6
77.5°	4225.2	2206.0	803.4	842.2	869.5	1093.7	1606.7	1592.4	1470.2	1409.8	1395.5
80°	1629.7	965.8	678.3	748.8	766.0	947.1	1408.4	1395.5	1293.4	1215.8	1194.3
82.5°	615.1	505.9	560.5	648.2	642.4	781.8	1192.8	1185.7	1086.5	973.0	938.5
85°	284.6	303.2	444.1	534.6	492.9	579.2	954.3	967.2	846.5	711.4	711.4
87.5°	120.7	169.6	314.7	403.8	332.0	390.9	699.9	668.3	613.7	425.4	399.5
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)