

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: P318419

Luminaire Tested: **GAN-SA5D-740-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318419  
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-SA5D-740-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38787 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

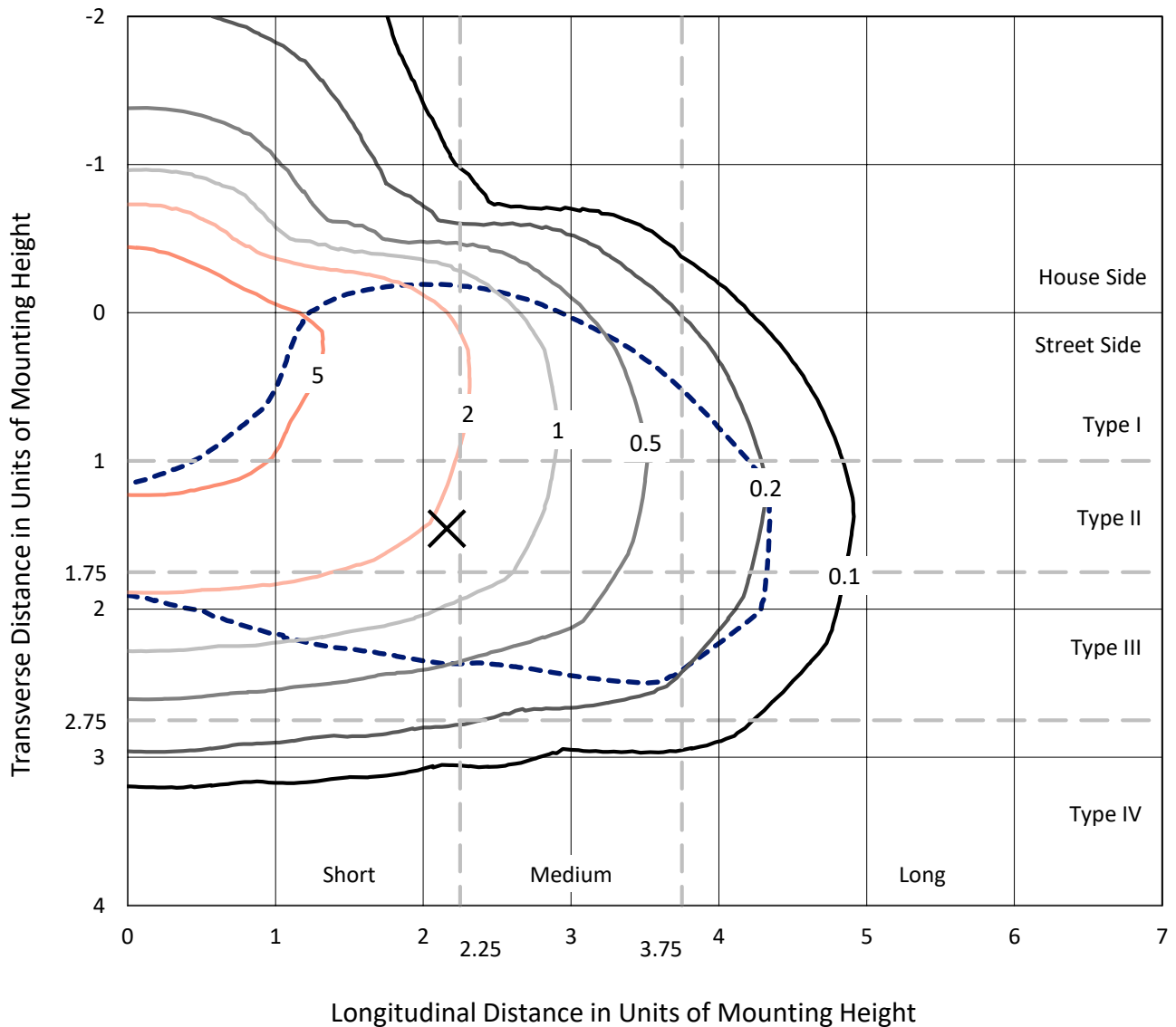
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

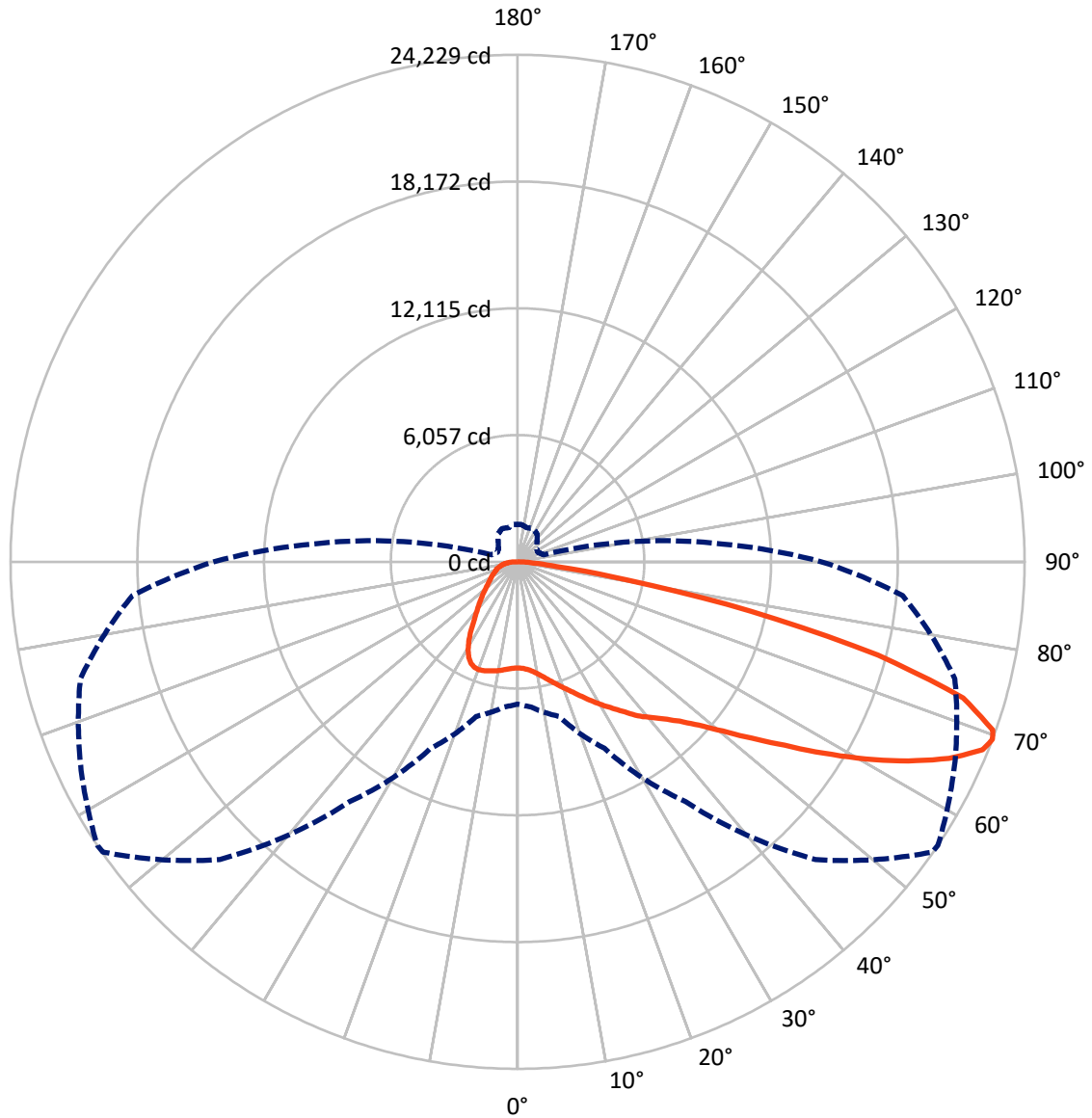
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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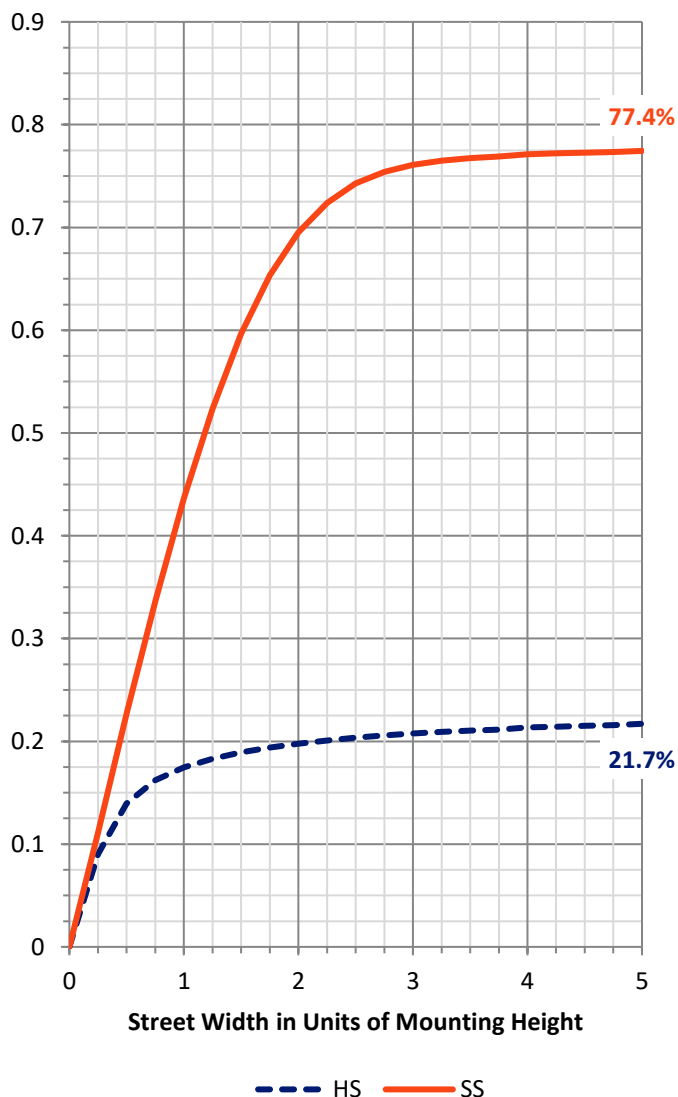
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8637.8	0.0	8637.8
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	30149.2	0.0	30149.2
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	38787.0	0.0	38787.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	498.0	1.3
10°-20°	1601.5	4.1
20°-30°	2795.6	7.2
30°-40°	4015.7	10.4
40°-50°	5557.6	14.3
50°-60°	8142.6	21.0
60°-70°	9927.4	25.6
70°-80°	5488.5	14.2
80°-90°	760.2	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°	38787.0	100.0
0°-180°	38787.0	100.0

**Coefficient of Utilization**

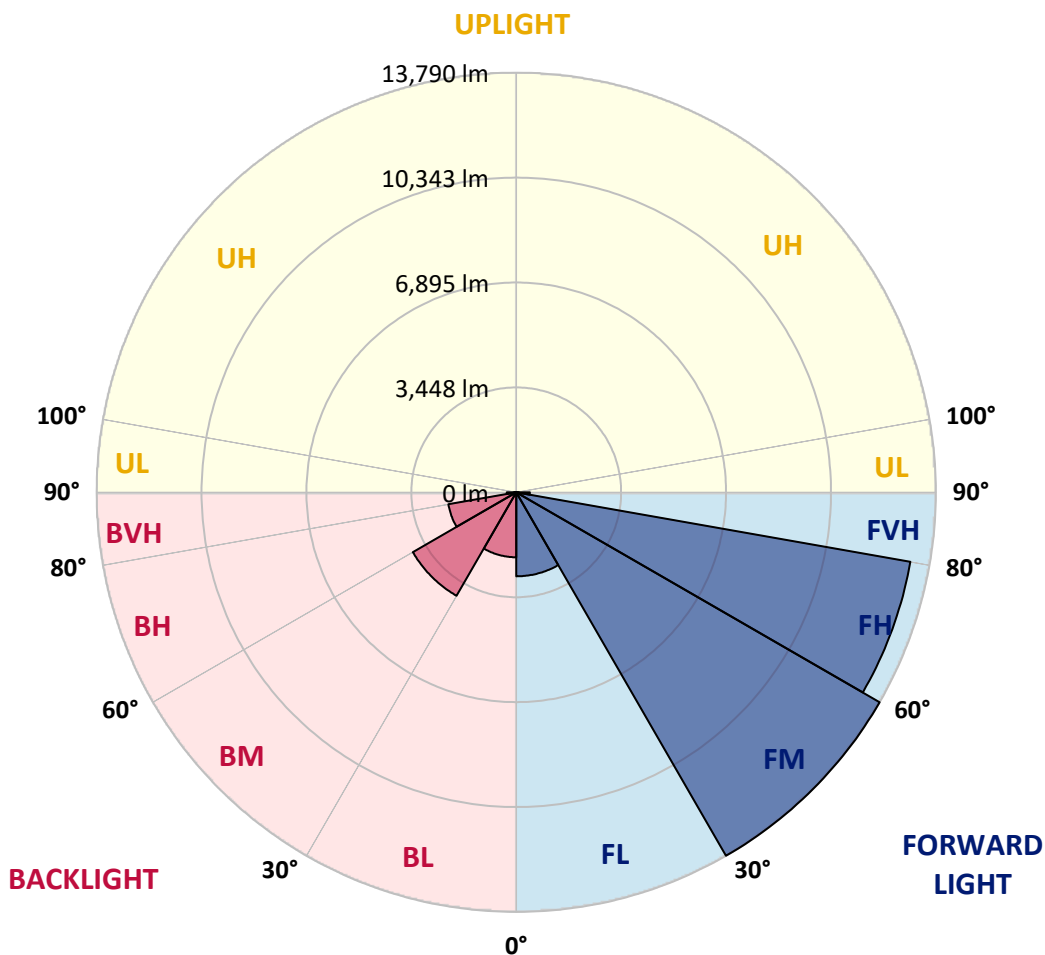


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2760.5	7.1			
FM (30°-60°)	13790.2	35.6			
FH (60°-80°)	13150.7	33.9			G5
FVH (80°-90°)	447.8	1.2			G3/500
BL (0°-30°)	2134.6	5.5	B3/2500		
BM (30°-60°)	3925.7	10.1	B3/5000		
BH (60°-80°)	2265.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	312.4	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°	5070.8	5070.8	5070.8	5070.8	5070.8	5070.8	5070.8	5070.8	5070.8	5070.8	5070.8
2.5°	5102.9	5108.2	5104.2	5114.9	5102.9	5110.9	5104.2	5104.2	5100.2	5088.2	5074.8
5°	5183.1	5193.7	5187.1	5197.8	5183.1	5185.7	5173.7	5173.7	5161.7	5136.3	5109.6
7.5°	5308.7	5320.7	5315.3	5326.0	5306.0	5306.0	5290.0	5288.6	5264.6	5223.1	5192.4
10°	5458.3	5474.3	5469.0	5485.0	5469.0	5474.3	5458.3	5458.3	5426.2	5367.4	5328.7
12.5°	5676.1	5696.2	5681.5	5680.1	5673.4	5684.1	5670.8	5668.1	5638.7	5558.5	5505.1
15°	5967.4	5988.8	5958.0	5955.4	5918.0	5913.9	5913.9	5909.9	5891.2	5795.0	5706.8
17.5°	6302.8	6309.5	6282.7	6240.0	6191.9	6161.1	6157.1	6167.8	6167.8	6055.6	5915.3
20°	6631.5	6643.5	6622.1	6574.0	6512.6	6467.1	6435.1	6456.4	6455.1	6321.5	6122.4
22.5°	6989.6	7017.6	6985.6	6924.1	6851.9	6801.2	6745.1	6763.8	6765.1	6600.7	6325.5
25°	7453.2	7427.8	7407.8	7320.9	7218.1	7166.0	7113.8	7132.5	7127.2	6901.4	6535.3
27.5°	7863.4	7868.8	7842.1	7749.9	7630.9	7516.0	7513.4	7525.4	7505.3	7214.1	6733.0
30°	8340.5	8343.1	8305.7	8222.9	8093.3	7944.9	7910.2	7930.2	7887.5	7510.7	6941.5
32.5°	8814.8	8828.2	8786.7	8686.5	8582.3	8401.9	8332.4	8345.8	8238.9	7814.0	7156.6
35°	9230.4	9249.1	9235.7	9168.9	9055.3	8900.3	8817.5	8809.5	8677.2	8185.5	7441.2
37.5°	9653.9	9671.3	9656.6	9600.5	9555.0	9390.7	9346.6	9346.6	9116.8	8564.9	7803.3
40°	10089.5	10116.2	10098.9	10021.4	9982.6	9907.8	9802.2	9776.9	9528.3	9020.6	8393.9
42.5°	10494.4	10529.1	10598.6	10553.2	10474.3	10485.0	10272.6	10259.2	10077.5	9694.0	9135.5
45°	11068.9	11119.7	11237.3	11202.6	11186.5	11127.7	10875.2	10863.2	10793.7	10599.9	10056.1
47.5°	11695.6	11765.1	11977.5	11984.2	12156.6	12045.7	11702.3	11660.9	11676.9	11684.9	11179.8
50°	12272.8	12349.0	12697.8	12862.1	13268.3	13292.4	12743.2	12705.8	12768.6	12953.0	12489.3
52.5°	12733.8	12830.0	13265.6	13773.4	14469.5	14667.3	14024.6	13996.5	14043.3	14361.3	13969.8
55°	13071.9	13176.1	13650.5	14575.1	15686.8	16035.5	15499.7	15473.0	15502.4	15907.3	15579.9
57.5°	13150.7	13176.1	13864.2	15114.9	16714.3	17552.1	17304.9	17251.5	17107.2	17459.9	17357.0
60°	12780.6	12882.1	13687.9	15304.6	17509.3	19047.3	19191.6	19124.8	18719.9	19008.5	18925.7
62.5°	12029.7	12211.4	13029.1	15016.0	17820.7	20268.6	21042.2	20962.0	20264.6	20451.6	20053.4
65°	10803.0	10880.5	11739.7	14020.6	17425.2	21050.2	22692.4	22652.3	21774.4	21481.8	20261.9
67.5°	8609.0	8754.7	9484.2	11940.1	15807.1	20958.0	23968.5	23964.5	22760.5	21864.0	19523.0
69°	6801.2	6952.2	7647.0	9835.6	13987.2	20114.9	24182.2	24229.0	23038.5	21631.5	18467.4
70°	5422.2	5597.3	6074.3	8284.3	12371.7	19003.2	24004.5	24088.7	22985.0	21248.0	17493.3
72.5°	2307.6	2449.2	2788.6	4270.4	7540.1	14190.3	21948.2	22266.2	21746.4	19446.8	14457.5
75°	1007.5	1051.6	1205.2	1741.0	3347.1	7723.1	17194.0	17781.9	18594.3	16437.7	10769.6
77.5°	737.6	756.3	840.5	1022.2	1501.9	2916.9	11056.9	11399.0	13409.9	11961.5	6606.1
80°	570.6	583.9	649.4	750.9	980.8	1179.9	5042.8	5336.7	7540.1	6143.8	2751.2
82.5°	454.3	463.7	509.1	553.2	677.4	714.9	1674.2	1857.3	2783.3	1697.0	728.2
85°	422.2	432.9	449.0	403.5	434.3	419.6	724.2	757.6	840.5	666.8	304.6
87.5°	191.1	225.8	444.9	314.0	231.2	184.4	296.6	310.0	348.7	350.1	135.0
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°	5070.8	5070.8	5070.8	5070.8	5070.8	5070.8	5070.8	5070.8	5070.8	5070.8	5070.8
2.5°	5082.8	5078.8	5085.5	5069.5	5089.5	5088.2	5081.5	5084.2	5097.5	5096.2	5097.5
5°	5113.6	5110.9	5118.9	5106.9	5130.9	5139.0	5140.3	5152.3	5167.0	5171.0	5171.0
7.5°	5191.1	5191.1	5195.1	5179.0	5195.1	5193.7	5187.1	5199.1	5213.8	5215.1	5213.8
10°	5324.7	5326.0	5319.3	5277.9	5264.6	5228.5	5195.1	5196.4	5215.1	5229.8	5233.8
12.5°	5493.1	5487.7	5458.3	5382.1	5326.0	5252.5	5217.8	5216.5	5235.2	5247.2	5251.2
15°	5685.5	5670.8	5594.6	5470.3	5371.5	5299.3	5243.2	5229.8	5219.1	5205.8	5207.1
17.5°	5867.2	5833.8	5706.8	5534.5	5430.2	5334.0	5225.8	5139.0	5078.8	5044.1	5033.4
20°	6051.6	5986.1	5803.0	5594.6	5462.3	5287.3	5078.8	4902.5	4792.9	4742.1	4732.8
22.5°	6219.9	6114.4	5892.6	5657.4	5436.9	5129.6	4802.2	4545.7	4393.4	4325.2	4330.6
25°	6384.3	6237.3	5986.1	5701.5	5308.7	4851.7	4417.4	4102.1	3925.7	3849.5	3846.9
27.5°	6528.6	6361.6	6087.7	5665.4	5069.5	4456.2	3961.8	3654.5	3507.5	3442.0	3431.3
30°	6694.3	6517.9	6222.6	5527.8	4719.4	3999.2	3516.8	3300.4	3196.2	3130.7	3118.7
32.5°	6896.0	6730.4	6333.5	5277.9	4271.8	3522.2	3169.4	3018.4	2923.6	2850.1	2836.7
35°	7190.0	7011.0	6361.6	4919.8	3780.1	3145.4	2914.2	2759.2	2630.9	2536.1	2526.7
37.5°	7558.8	7362.4	6297.4	4456.2	3303.0	2900.9	2701.8	2510.7	2343.7	2210.0	2188.7
40°	8090.6	7794.0	6119.7	3921.7	2951.6	2712.5	2494.7	2276.9	2069.7	1913.4	1882.7
42.5°	8729.3	8300.4	5847.1	3389.9	2693.7	2521.4	2288.9	2019.0	1821.2	1710.3	1694.3
45°	9541.7	8826.8	5469.0	2924.9	2439.9	2330.3	2067.1	1818.5	1695.6	1614.1	1600.7
47.5°	10469.0	9417.4	5072.2	2546.8	2224.7	2151.3	1889.4	1729.0	1631.5	1567.3	1555.3
50°	11608.8	10084.2	4651.3	2236.8	2008.3	1936.1	1805.2	1679.6	1602.1	1552.6	1540.6
52.5°	12894.2	10836.4	4347.9	1992.2	1829.2	1777.1	1761.1	1652.9	1590.1	1552.6	1540.6
55°	14278.5	11602.1	4020.6	1786.5	1674.2	1688.9	1731.7	1655.5	1612.8	1567.3	1550.0
57.5°	15664.1	12393.1	3655.8	1612.8	1551.3	1623.5	1711.7	1660.9	1624.8	1580.7	1564.7
60°	16759.7	12894.2	3090.6	1467.1	1453.8	1551.3	1663.5	1620.8	1574.0	1575.4	1572.7
62.5°	17271.5	12867.4	2466.6	1337.5	1356.2	1453.8	1586.0	1558.0	1519.2	1571.4	1575.4
65°	16984.2	12226.1	1920.1	1219.9	1252.0	1352.2	1505.9	1527.3	1540.6	1640.8	1654.2
67.5°	15779.0	10978.1	1487.2	1117.0	1157.1	1282.7	1513.9	1663.5	1680.9	1786.5	1785.1
69°	14532.3	9807.6	1292.1	1063.6	1110.4	1300.1	1618.1	1750.4	1684.9	1797.2	1781.1
70°	13487.4	8881.6	1187.9	1027.5	1089.0	1330.8	1687.6	1749.1	1664.9	1761.1	1734.4
72.5°	10387.5	6389.6	1007.5	960.7	1016.8	1273.4	1707.6	1710.3	1618.1	1636.8	1591.4
75°	7124.5	4037.9	879.2	869.9	907.3	1147.8	1643.5	1634.2	1496.5	1469.8	1432.4
77.5°	3928.4	2051.0	746.9	783.0	808.4	1016.8	1493.9	1480.5	1366.9	1310.8	1297.4
80°	1515.2	897.9	630.7	696.2	712.2	880.5	1309.5	1297.4	1202.6	1130.4	1110.4
82.5°	571.9	470.3	521.1	602.6	597.3	726.9	1109.0	1102.4	1010.2	904.6	872.5
85°	264.6	281.9	412.9	497.1	458.3	538.5	887.2	899.3	787.0	661.4	661.4
87.5°	112.2	157.7	292.6	375.5	308.7	363.4	650.7	621.3	570.6	395.5	371.5
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)