

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: P319671

Luminaire Tested: **GAN-SA7A-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32965 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

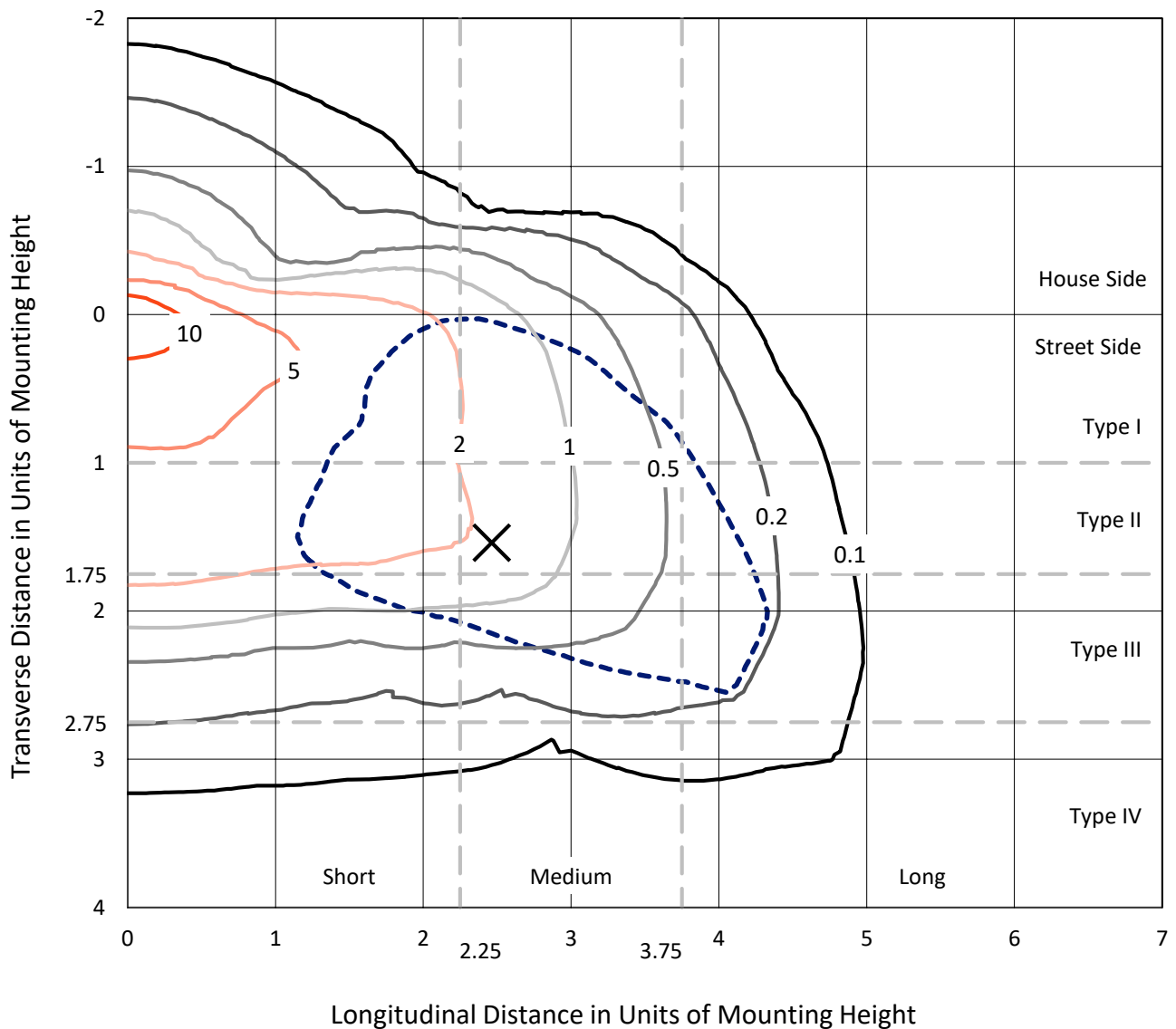
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

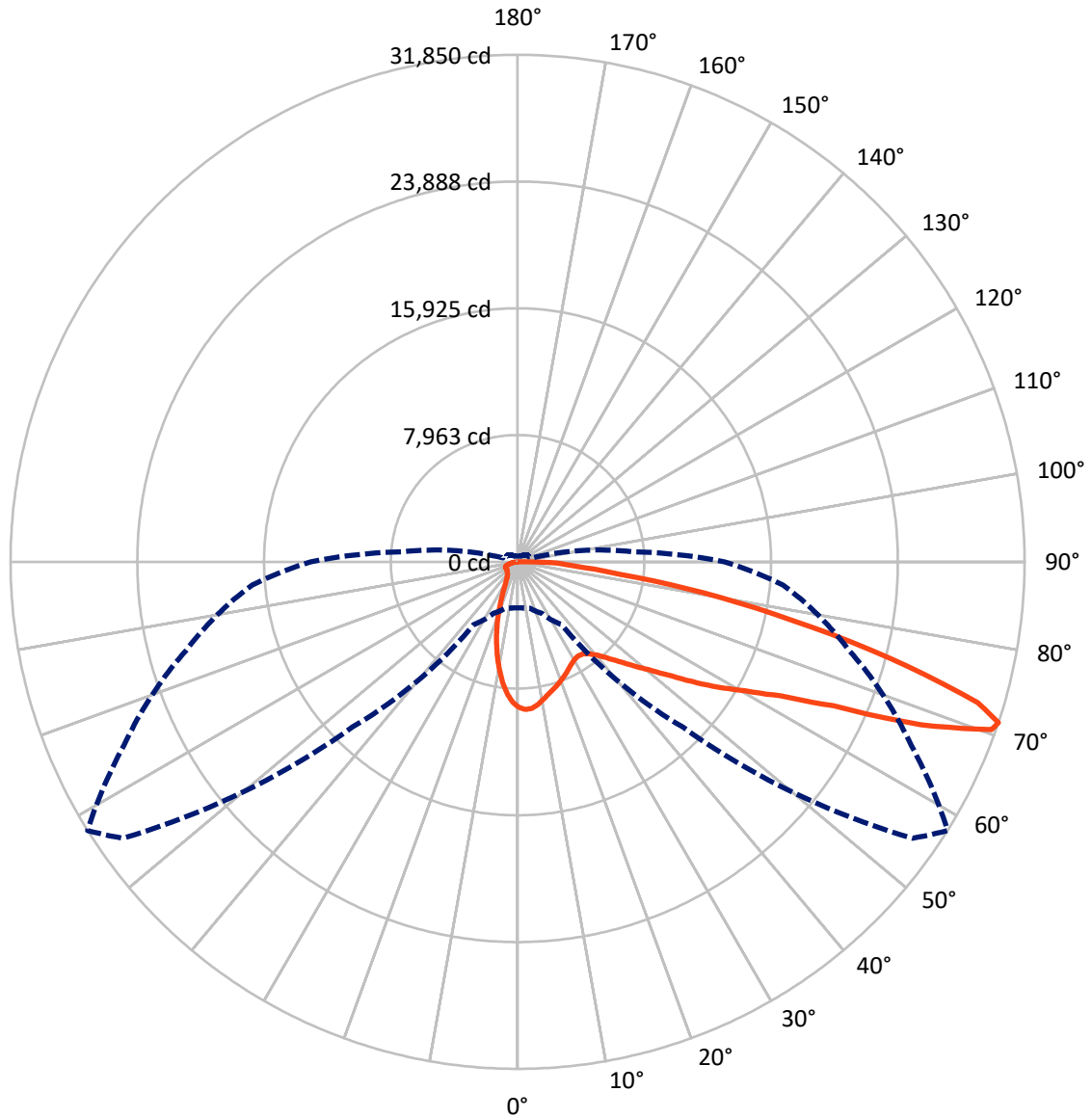
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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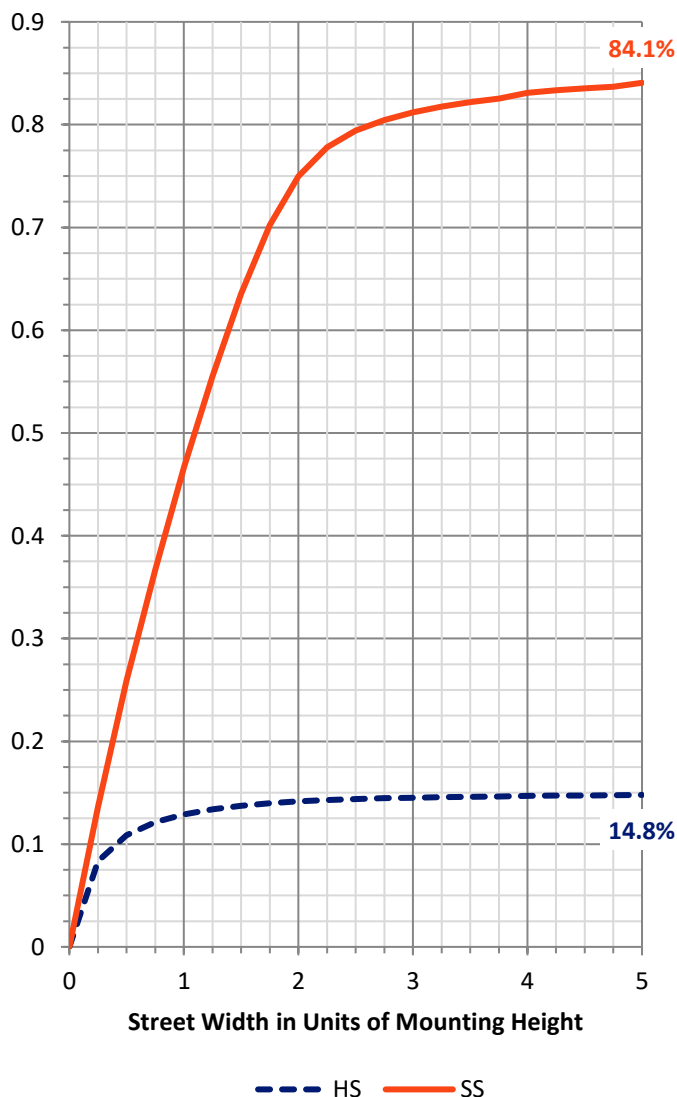
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4928.5	0.0	4928.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	28036.5	0.0	28036.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	32965.0	0.0	32965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	787.9	2.4
10°-20°	1752.1	5.3
20°-30°	2226.7	6.8
30°-40°	2836.4	8.6
40°-50°	4022.2	12.2
50°-60°	6224.5	18.9
60°-70°	8473.8	25.7
70°-80°	5653.0	17.1
80°-90°	988.3	3.0
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°	32965.0	100.0
0°-180°	32965.0	100.0

Coefficient of Utilization

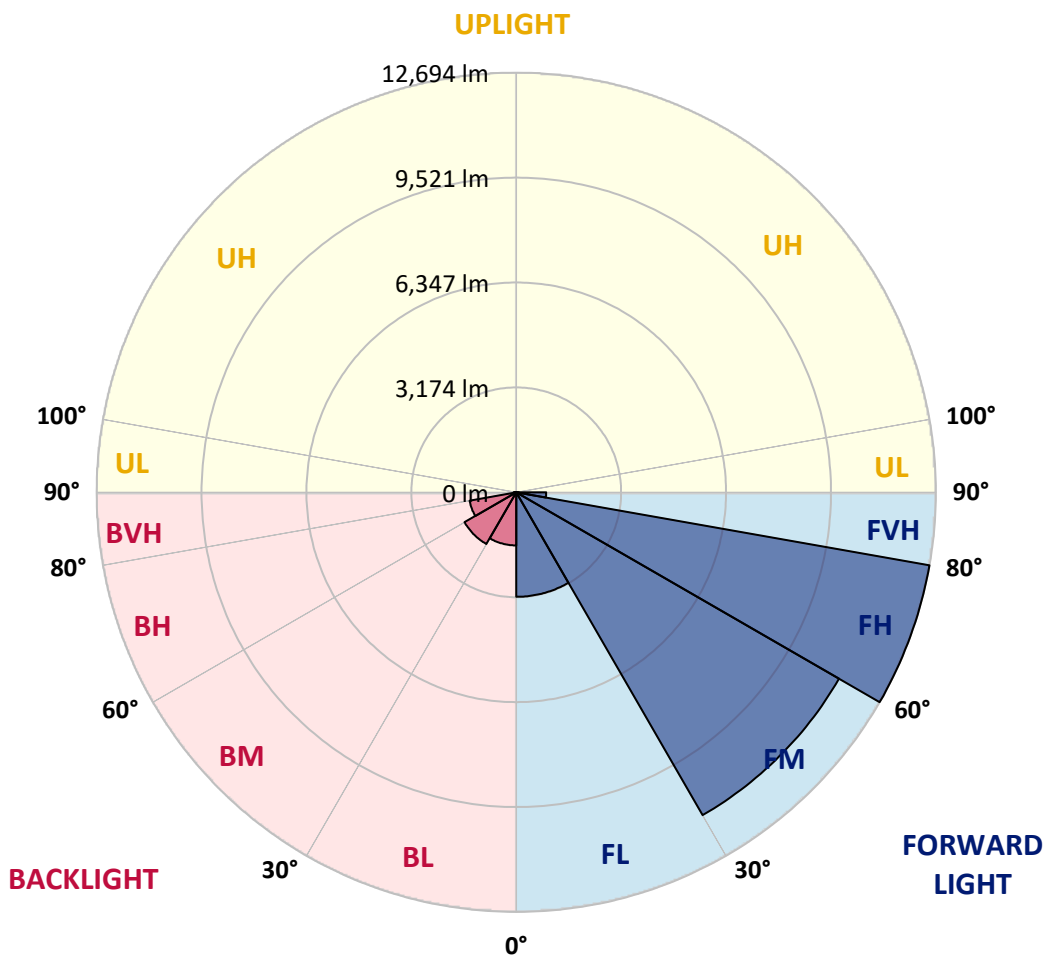


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3160.2	9.6			
FM (30°-60°)	11275.6	34.2			
FH (60°-80°)	12694.4	38.5			G5
FVH (80°-90°)	906.2	2.7			G5
BL (0°-30°)	1606.5	4.9	B3/2500		
BM (30°-60°)	1807.4	5.5	B2/2500		
BH (60°-80°)	1432.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	82.1	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9133.5	9133.5	9133.5	9133.5	9133.5	9133.5	9133.5	9133.5	9133.5	9133.5	9133.5
2.5°	9375.8	9363.2	9367.8	9358.6	9336.8	9314.9	9282.8	9288.5	9243.7	9177.1	9094.5
5°	9199.0	9194.4	9228.8	9248.3	9264.4	9251.8	9242.6	9254.1	9188.6	9096.8	8953.2
7.5°	8828.1	8777.5	8821.2	8886.6	8948.6	8995.7	9057.7	9065.8	9024.4	8928.0	8739.6
10°	8301.0	8252.8	8317.1	8419.3	8543.3	8655.8	8781.0	8803.9	8812.0	8724.7	8496.2
12.5°	7754.4	7717.7	7782.0	7925.5	8131.1	8304.4	8504.2	8538.7	8609.9	8551.3	8271.1
15°	7265.2	7251.5	7329.5	7470.8	7707.3	7972.6	8260.8	8324.0	8444.5	8425.0	8095.5
17.5°	6842.7	6839.2	6898.9	7047.1	7308.9	7644.2	8018.5	8125.3	8304.4	8327.4	7950.8
20°	6528.0	6521.1	6562.5	6671.6	6941.4	7321.5	7756.7	7903.7	8162.1	8242.4	7801.5
22.5°	6359.2	6358.1	6359.2	6410.9	6631.4	6985.1	7501.8	7680.9	8023.1	8174.7	7636.1
25°	6330.5	6327.1	6301.8	6296.1	6421.2	6703.7	7249.2	7446.7	7891.1	8127.6	7478.8
27.5°	6405.2	6409.8	6376.5	6322.5	6347.8	6518.8	7029.8	7241.1	7785.4	8118.4	7369.7
30°	6560.2	6557.9	6529.2	6472.9	6423.5	6450.0	6873.7	7085.0	7714.2	8158.6	7295.1
32.5°	6731.3	6743.9	6738.2	6707.2	6633.7	6528.0	6826.6	7033.3	7693.6	8255.1	7262.9
35°	6936.8	6950.6	6991.9	7016.1	6929.9	6760.0	6927.6	7106.8	7753.3	8436.5	7314.6
37.5°	7132.0	7167.6	7283.6	7385.8	7312.3	7122.9	7196.3	7323.8	7938.1	8722.4	7453.6
40°	7357.1	7388.1	7577.6	7794.6	7783.1	7586.8	7629.2	7714.2	8264.3	9132.4	7705.0
42.5°	7578.7	7640.7	7915.2	8222.9	8311.3	8137.9	8205.7	8250.5	8723.6	9675.5	8143.7
45°	7873.8	7940.4	8321.7	8692.6	8899.3	8801.7	8909.6	8926.8	9301.2	10415.0	8781.0
47.5°	8320.5	8396.3	8840.7	9230.0	9545.7	9556.1	9734.1	9727.2	10022.3	11261.3	9583.6
50°	9016.4	9125.5	9489.5	9853.5	10237.0	10450.6	10688.3	10655.0	10886.9	12162.7	10508.0
52.5°	9928.1	9978.7	10248.5	10517.2	10993.7	11472.6	11813.6	11783.8	11867.6	13089.4	11557.6
55°	10873.2	10911.1	11022.4	11169.4	11810.2	12591.0	13312.1	13265.1	13052.6	14051.6	12594.5
57.5°	11722.9	11799.8	11876.8	11937.6	12632.4	13760.0	14845.1	14848.6	14338.7	15089.7	13665.8
60°	11855.0	11922.7	12431.4	12911.4	14039.0	15319.4	16486.0	16451.6	15669.6	16216.2	14860.0
62.5°	10479.3	10632.0	11481.8	12758.7	15394.0	18171.7	18579.4	18536.9	17261.1	17604.5	16250.6
65°	7509.8	7683.2	8708.6	10627.4	14737.2	21314.6	22357.2	21785.4	19431.4	19312.0	17878.9
67.5°	4332.5	4373.8	4818.2	6359.2	11221.1	21478.8	28120.5	27320.1	22801.6	21249.1	18675.8
70°	3203.7	3202.6	3308.2	3913.4	6072.2	17529.8	30861.5	31579.2	26349.8	21886.4	17549.3
71°	2897.1	2900.6	3018.9	3562.0	4809.0	14672.9	30279.3	31850.2	27284.5	21571.8	16734.0
72.5°	2478.0	2489.5	2653.7	3194.5	4045.4	10118.7	27771.4	30224.2	27727.8	20795.6	15458.3
75°	1879.8	1906.2	2133.5	2692.7	3697.5	5131.7	20382.2	24134.8	24632.0	18349.7	11486.4
77.5°	1341.2	1371.1	1628.3	2264.4	3514.9	3867.4	13649.7	17604.5	18126.9	11759.7	5181.1
80°	847.4	883.0	1077.1	1801.7	3302.5	3672.2	8577.7	11833.1	9884.5	3763.0	1318.2
82.5°	497.2	524.8	668.3	1177.0	2697.3	3536.7	5046.7	6559.0	3846.8	1136.8	599.4
85°	288.2	300.9	416.8	749.8	1959.0	3338.1	3707.8	3666.5	1669.6	555.8	283.6
87.5°	134.4	149.3	246.9	391.6	1087.4	2419.4	2930.4	2532.0	1038.1	260.7	133.2
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°	9133.5	9133.5	9133.5	9133.5	9133.5	9133.5	9133.5	9133.5	9133.5	9133.5	9133.5
2.5°	9054.3	9034.8	8953.2	8880.9	8805.1	8706.3	8597.3	8583.5	8516.9	8529.5	8506.5
5°	8875.1	8825.8	8629.4	8451.4	8241.3	8053.0	7848.6	7754.4	7618.9	7609.7	7575.3
7.5°	8619.1	8527.2	8222.9	7885.3	7547.7	7226.2	6908.1	6699.1	6485.5	6394.8	6386.8
10°	8330.9	8174.7	7726.9	7227.3	6740.5	6270.8	5816.1	5479.6	5176.5	5033.0	5027.2
12.5°	8057.6	7826.8	7212.4	6532.6	5866.6	5258.0	4634.5	4192.4	3812.3	3684.9	3630.9
15°	7825.6	7500.6	6711.8	5842.5	5034.1	4189.0	3479.3	3014.3	2662.9	2541.2	2518.2
17.5°	7600.5	7182.6	6198.5	5145.5	4168.3	3239.3	2528.5	2182.9	1995.7	1946.4	1945.2
20°	7376.6	6855.3	5662.2	4432.4	3331.2	2422.9	1944.1	1789.0	1725.9	1720.1	1711.0
22.5°	7122.9	6508.5	5098.4	3717.0	2599.7	1905.0	1652.4	1590.4	1582.3	1603.0	1603.0
25°	6885.2	6164.0	4526.6	3016.6	2022.1	1589.2	1475.6	1462.9	1484.7	1521.5	1524.9
27.5°	6663.5	5832.2	3968.5	2394.2	1620.2	1399.8	1352.7	1367.6	1406.7	1449.1	1450.3
30°	6481.0	5518.7	3426.5	1886.6	1368.8	1258.5	1250.5	1280.3	1322.8	1356.1	1364.2
32.5°	6339.7	5251.1	2902.9	1516.9	1204.6	1152.9	1159.8	1185.0	1211.4	1229.8	1242.5
35°	6274.3	5021.5	2419.4	1279.2	1100.1	1071.4	1080.5	1094.3	1105.8	1119.6	1129.9
37.5°	6285.7	4843.5	1987.7	1131.1	1030.0	1015.1	1015.1	1015.1	1015.1	1022.0	1023.1
40°	6392.5	4741.3	1636.3	1036.9	982.9	966.9	954.2	942.7	933.6	938.2	935.9
42.5°	6665.8	4732.1	1379.1	977.2	945.0	918.6	893.4	877.3	865.8	870.4	872.7
45°	7129.7	4846.9	1205.7	934.7	909.4	869.3	837.1	819.9	811.8	826.8	829.1
47.5°	7730.3	5097.3	1100.1	903.7	876.1	823.3	788.9	772.8	775.1	796.9	802.7
50°	8504.2	5503.8	1049.5	884.2	853.2	784.3	748.7	734.9	741.8	772.8	779.7
52.5°	9354.0	6089.4	1055.3	878.4	838.3	755.6	717.7	701.6	713.1	741.8	747.5
55°	10334.6	6793.3	1150.6	886.5	816.4	737.2	692.4	664.9	674.0	700.5	705.1
57.5°	11424.3	7599.4	1342.4	884.2	788.9	720.0	666.0	624.7	631.6	647.6	652.2
60°	12558.9	8573.1	1639.8	891.1	776.2	699.3	630.4	578.7	576.4	590.2	592.5
62.5°	13920.7	9699.6	1979.7	895.7	784.3	672.9	583.3	532.8	525.9	529.4	531.7
65°	15323.9	10514.9	1852.2	877.3	809.5	651.1	542.0	488.0	475.4	473.1	474.2
67.5°	15367.6	9641.1	1298.7	840.5	819.9	639.6	511.0	450.1	429.5	421.4	420.3
70°	13781.8	7832.5	1011.6	801.5	778.5	621.2	482.3	419.1	388.1	375.5	374.3
71°	13007.8	7210.1	958.8	782.0	747.5	602.9	469.7	405.3	373.2	359.4	357.1
72.5°	11794.1	6463.7	894.5	751.0	687.8	555.8	445.5	385.8	352.5	336.4	333.0
75°	8464.1	4226.9	768.2	669.5	569.6	443.2	390.4	346.8	318.1	298.6	296.3
77.5°	3261.1	1682.2	581.0	556.9	436.4	346.8	321.5	299.7	279.0	259.5	258.4
80°	1008.2	752.1	423.7	419.1	315.8	258.4	250.3	244.6	236.5	215.9	211.3
82.5°	538.5	431.8	291.7	271.0	206.7	172.2	181.4	183.7	184.9	163.1	160.8
85°	257.2	228.5	164.2	153.9	120.6	96.5	111.4	120.6	121.7	99.9	93.0
87.5°	122.9	119.4	76.9	58.6	44.8	32.2	39.0	48.2	52.8	37.9	33.3
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)