

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: P322222

Luminaire Tested: **GAN-SA8D-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41269 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

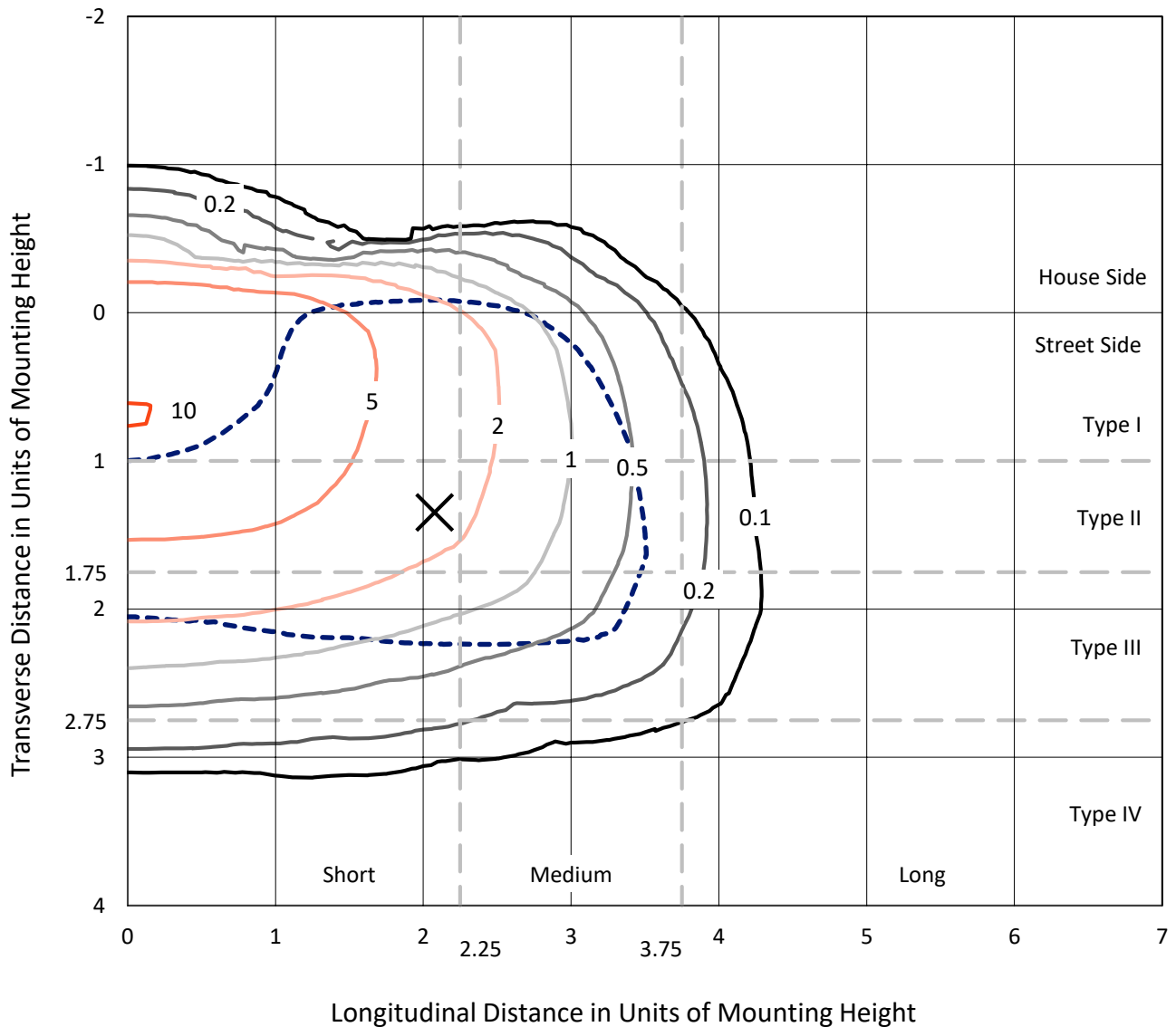
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

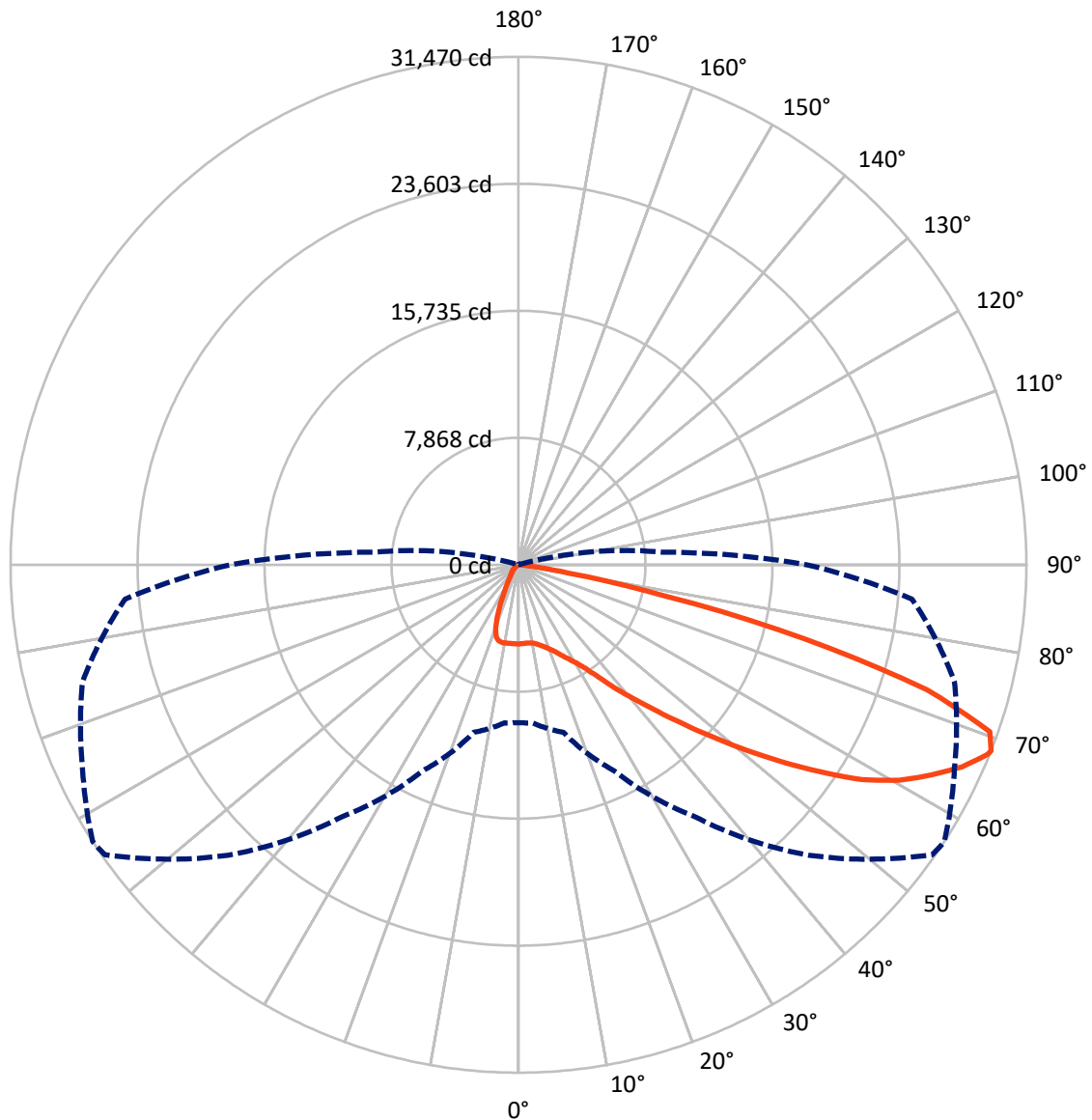
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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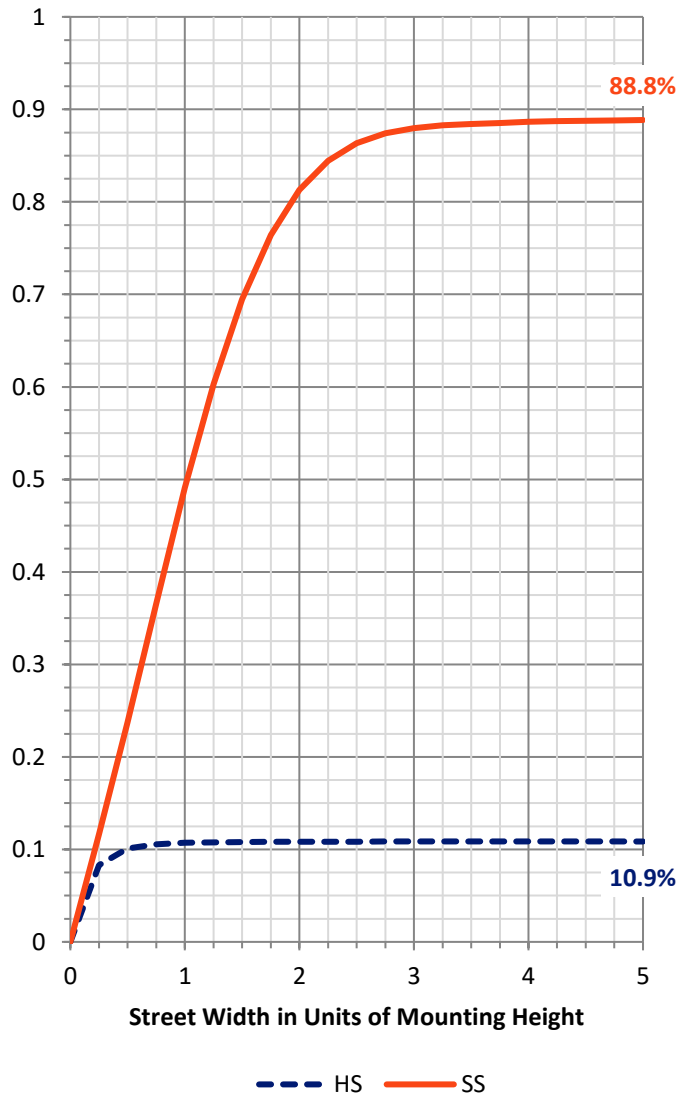
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4525.4	0.0	4525.4
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	36743.6	0.0	36743.6
	% Fixture	89.0	0.0	89.0
Total	Lumens	41269.0	0.0	41269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.9	1.1
10°-20°	1271.7	3.1
20°-30°	2193.8	5.3
30°-40°	3786.5	9.2
40°-50°	6476.8	15.7
50°-60°	10362.3	25.1
60°-70°	11972.5	29.0
70°-80°	4574.9	11.1
80°-90°	171.5	0.4
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°	41269.0	100.0
0°-180°	41269.0	100.0

Coefficient of Utilization



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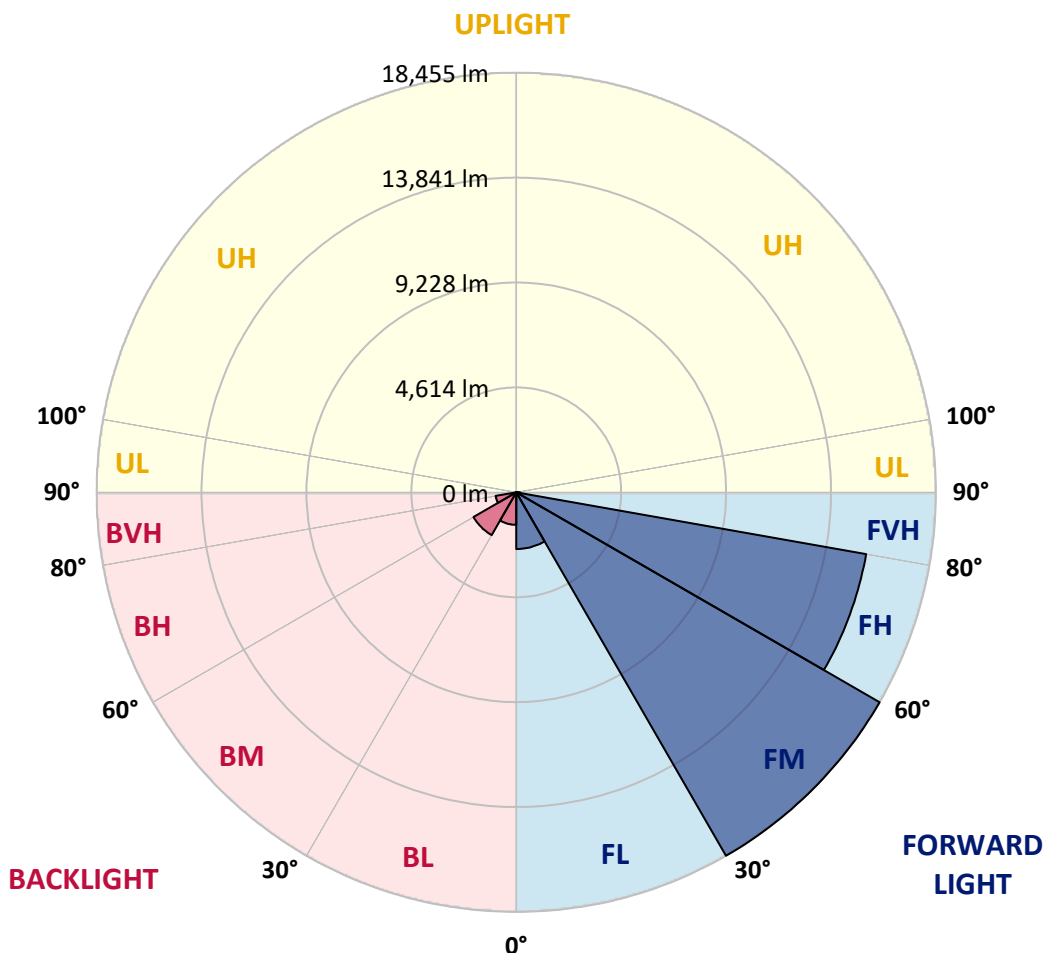
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2494.3	6.0			
FM (30°-60°)	18455.1	44.7			
FH (60°-80°)	15625.8	37.9			G5
FVH (80°-90°)	168.4	0.4			G2/225
BL (0°-30°)	1430.2	3.5	B3/2500		
BM (30°-60°)	2170.5	5.3	B2/2500		
BH (60°-80°)	921.6	2.2	B2/1000		G2/1000
BVH (80°-90°)	3.1	0.0			G0/10
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°	57°	65°	75°	85°
0°	4903.8	4903.8	4903.8	4903.8	4903.8	4903.8	4903.8	4903.8	4903.8	4903.8	4903.8
2.5°	4788.7	4810.2	4825.8	4835.5	4847.3	4872.6	4880.4	4892.1	4898.0	4898.0	4911.7
5°	4599.4	4622.8	4656.0	4683.3	4738.0	4808.2	4859.0	4878.5	4913.6	4944.8	4962.4
7.5°	4423.8	4451.1	4490.2	4554.5	4648.2	4761.4	4866.8	4894.1	4962.4	5028.7	5061.9
10°	4310.6	4332.1	4382.8	4474.5	4597.5	4755.5	4903.8	4937.0	5054.1	5165.3	5227.8
12.5°	4271.6	4291.1	4343.8	4447.2	4599.4	4784.8	4989.7	5038.5	5210.2	5372.2	5460.0
15°	4328.2	4332.1	4388.7	4486.2	4636.5	4857.0	5132.2	5190.7	5407.3	5618.1	5727.3
17.5°	4546.7	4529.2	4558.4	4601.4	4720.4	4952.6	5282.4	5370.2	5659.0	5906.9	6010.3
20°	5093.1	5093.1	5026.8	4909.7	4911.7	5100.9	5485.4	5584.9	5938.1	6224.9	6318.6
22.5°	6027.8	6010.3	5877.6	5590.7	5327.3	5356.6	5733.2	5862.0	6273.7	6580.1	6611.3
25°	7151.8	7130.4	6925.5	6521.5	6064.9	5770.3	6068.8	6217.1	6673.8	6945.0	6880.6
27.5°	8342.2	8324.6	8121.7	7620.2	6970.4	6429.8	6468.9	6609.4	7081.6	7348.9	7144.0
30°	9495.5	9501.3	9300.3	8785.2	8049.5	7270.9	6976.2	7058.2	7477.7	7749.0	7456.3
32.5°	10592.1	10600.0	10426.3	9850.6	9163.7	8248.5	7678.7	7657.3	7938.3	8205.6	7870.0
35°	11569.8	11589.3	11470.3	11023.4	10295.5	9337.4	8590.0	8539.3	8592.0	8894.4	8504.2
37.5°	12512.3	12524.0	12434.3	12057.6	11448.8	10533.6	9741.3	9669.1	9556.0	9788.2	9341.3
40°	13544.6	13515.3	13411.9	13070.4	12547.4	11854.7	10978.5	10853.6	10656.5	10863.4	10441.9
42.5°	14504.7	14471.5	14489.1	14102.7	13661.7	13212.9	12420.6	12205.9	12090.8	12328.9	11792.3
45°	15704.8	15687.2	15745.8	15410.1	15053.0	14727.1	14073.4	13839.3	13788.5	14067.6	13425.6
47.5°	16889.3	16932.2	17113.7	16971.2	16826.8	16540.0	15823.8	15718.5	15749.7	16087.3	15148.6
50°	17876.7	17927.4	18425.0	18588.9	18797.7	18629.9	17911.8	17847.4	17970.4	18274.8	17002.5
52.5°	18590.9	18694.3	19312.9	20068.1	20829.1	20942.3	20226.2	20167.6	20333.5	20380.3	18434.8
55°	19086.6	19178.3	19878.8	21260.4	22809.8	23297.7	22852.7	22626.4	22595.2	22132.7	19941.3
57.5°	19174.4	19164.6	20171.5	22031.2	24363.1	25621.8	25340.8	25118.3	24478.2	23752.3	21668.2
60°	18678.7	18735.3	19904.2	22298.5	25338.8	27380.0	27401.4	27112.6	26115.5	25327.1	23342.5
62.5°	17152.7	17383.0	18563.6	21598.0	25327.1	28088.3	28911.8	28691.3	27499.0	26617.0	25040.2
65°	14678.4	14760.3	15886.3	19197.8	23615.7	27791.7	30271.9	30190.0	28745.9	27869.8	25912.5
67.5°	10719.0	10541.4	11724.0	15117.4	19994.0	26062.8	31247.6	31351.0	29708.0	28127.3	24983.7
68°	9782.3	9835.0	10756.1	14108.6	19045.6	25452.0	31312.0	31470.1	29803.6	27959.5	24476.3
70°	5830.8	5932.2	6753.8	9714.0	14489.1	21996.1	30617.3	30978.3	29233.8	26228.6	21170.6
72.5°	1488.9	1609.9	2386.6	4347.7	8275.8	15497.9	25846.2	26457.0	25381.7	21278.0	14292.0
75°	612.7	644.0	852.8	1432.3	3083.2	6982.1	17035.6	18343.1	17595.7	12738.7	6459.1
77.5°	423.5	444.9	548.3	794.2	1334.8	2367.0	8352.0	9296.4	8375.4	4347.7	1408.9
80°	304.4	322.0	392.2	528.8	766.9	845.0	2722.2	3147.6	2499.7	954.2	349.3
82.5°	181.5	195.1	292.7	376.6	466.4	403.9	677.1	768.8	724.0	474.2	156.1
85°	89.8	105.4	197.1	269.3	251.7	169.8	206.8	230.3	284.9	288.8	83.9
87.5°	5.9	11.7	115.1	162.0	70.3	39.0	60.5	74.2	101.5	142.5	35.1
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°	4903.8	4903.8	4903.8	4903.8	4903.8	4903.8	4903.8	4903.8	4903.8	4903.8	4903.8
2.5°	4917.5	4919.5	4905.8	4899.9	4903.8	4880.4	4870.7	4874.6	4874.6	4880.4	4870.7
5°	4966.3	4966.3	4942.9	4911.7	4894.1	4849.2	4819.9	4812.1	4806.3	4802.4	4794.6
7.5°	5071.7	5060.0	5019.0	4950.7	4892.1	4794.6	4720.4	4681.4	4661.9	4654.1	4648.2
10°	5241.4	5220.0	5151.7	5024.8	4890.2	4716.5	4554.5	4439.4	4343.8	4304.8	4281.4
12.5°	5469.7	5438.5	5323.4	5112.6	4876.5	4556.5	4205.2	3867.7	3553.5	3424.7	3360.3
15°	5733.2	5688.3	5506.8	5186.8	4796.5	4195.5	3432.5	2841.2	2406.1	2242.1	2171.9
17.5°	6000.5	5942.0	5666.8	5233.6	4556.5	3448.1	2408.0	1818.7	1527.9	1449.9	1422.6
20°	6269.8	6184.0	5805.4	5198.5	4014.0	2486.1	1588.4	1328.9	1245.0	1221.6	1213.8
22.5°	6525.5	6392.8	5930.3	5061.9	3178.8	1668.4	1256.7	1174.7	1147.4	1133.8	1129.9
25°	6747.9	6562.5	6039.6	4640.4	2250.0	1260.6	1131.8	1104.5	1069.4	1044.0	1045.9
27.5°	6956.7	6732.3	6105.9	3945.7	1500.6	1077.2	1047.9	1010.8	946.4	909.3	909.3
30°	7208.4	6958.7	6154.7	3036.4	1104.5	952.3	928.9	872.3	784.5	735.7	735.7
32.5°	7587.0	7302.1	6123.5	2130.9	915.2	837.1	782.5	704.5	608.8	562.0	560.0
35°	8166.6	7832.9	5901.0	1397.2	807.9	727.9	640.1	544.4	460.5	421.5	419.5
37.5°	8947.1	8543.2	5401.4	999.1	724.0	626.4	521.0	415.6	353.2	327.8	325.9
40°	9959.9	9368.6	4687.2	809.8	645.9	528.8	402.0	322.0	279.0	259.5	261.5
42.5°	11175.6	10252.6	3830.6	698.6	569.8	435.2	314.2	253.7	226.4	212.7	208.8
45°	12526.0	11124.9	2932.9	622.5	493.7	351.3	245.9	201.0	179.5	171.7	171.7
47.5°	14011.0	11973.7	2146.5	556.1	411.7	271.2	197.1	163.9	146.4	140.5	138.5
50°	15359.4	12563.1	1547.5	485.9	337.6	214.7	160.0	136.6	124.9	117.1	117.1
52.5°	16483.4	12748.4	1139.6	409.8	273.2	171.7	132.7	117.1	105.4	99.5	99.5
55°	17472.8	12672.3	846.9	337.6	220.5	140.5	113.2	99.5	89.8	83.9	83.9
57.5°	18421.1	12426.5	632.3	275.1	177.6	113.2	95.6	83.9	74.2	70.3	70.3
60°	19195.8	12016.7	470.3	222.5	142.5	91.7	80.0	68.3	60.5	54.6	54.6
62.5°	19824.2	11563.9	345.4	183.4	113.2	72.2	62.4	56.6	44.9	39.0	39.0
65°	19828.1	10812.7	259.5	152.2	87.8	56.6	46.8	44.9	29.3	23.4	21.5
67.5°	18393.8	9321.8	199.0	130.7	68.3	42.9	35.1	37.1	15.6	9.8	7.8
68°	17872.8	8943.2	187.3	128.8	64.4	41.0	33.2	37.1	13.7	7.8	5.9
70°	15068.6	7114.8	150.3	124.9	56.6	31.2	27.3	37.1	11.7	5.9	3.9
72.5°	9637.9	4129.1	111.2	99.5	42.9	23.4	17.6	33.2	11.7	3.9	2.0
75°	4101.8	1280.1	76.1	70.3	25.4	17.6	11.7	21.5	7.8	2.0	0.0
77.5°	864.5	288.8	44.9	42.9	17.6	11.7	7.8	5.9	2.0	0.0	0.0
80°	222.5	83.9	23.4	21.5	9.8	5.9	3.9	0.0	0.0	0.0	0.0
82.5°	70.3	33.2	13.7	9.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.1	19.5	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.5	5.9	2.0	0.0	0.0	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)