

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: P322204

Luminaire Tested: **GAN-SA0B-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322204
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-SA0B-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA 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: 37538 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

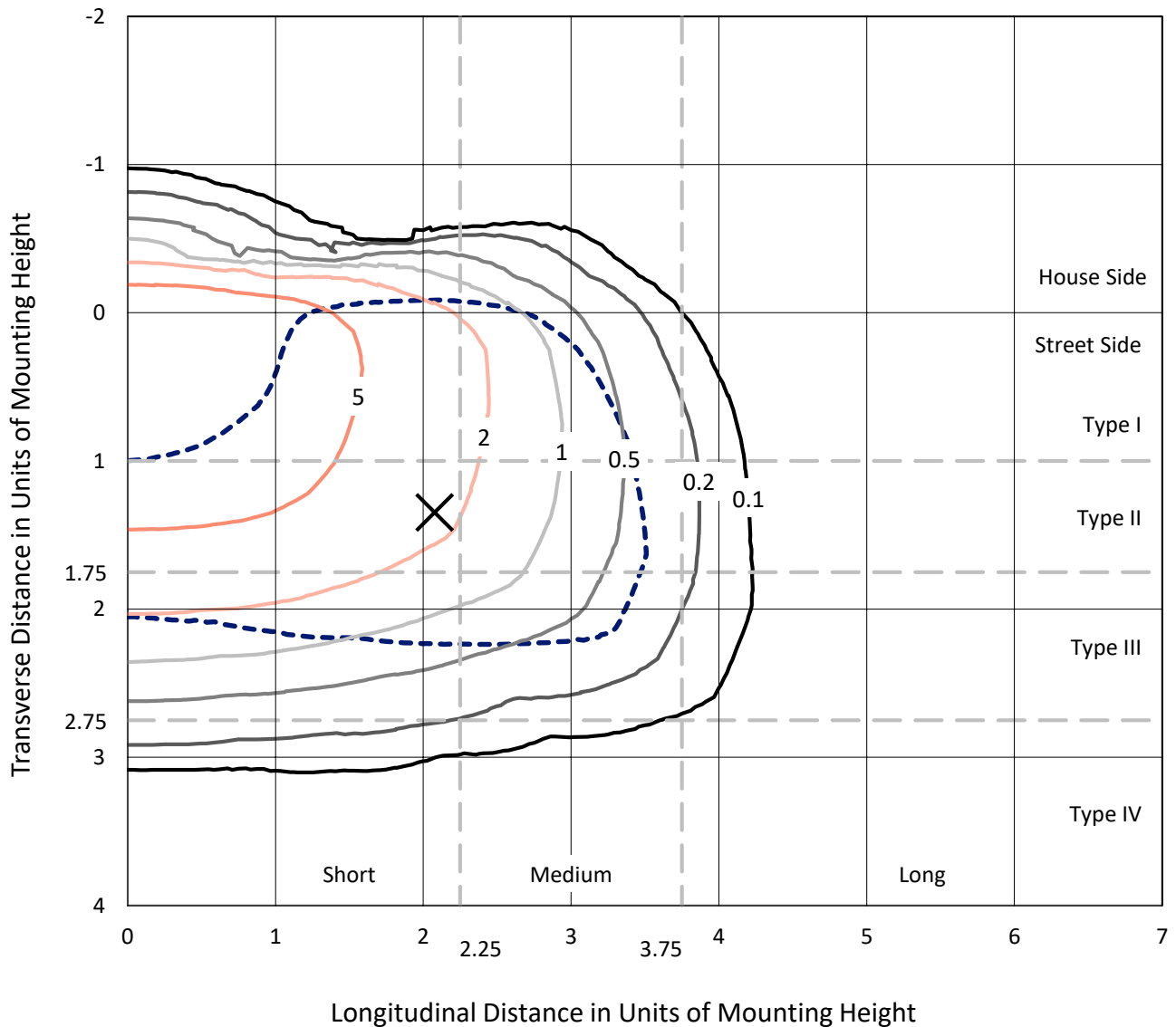
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

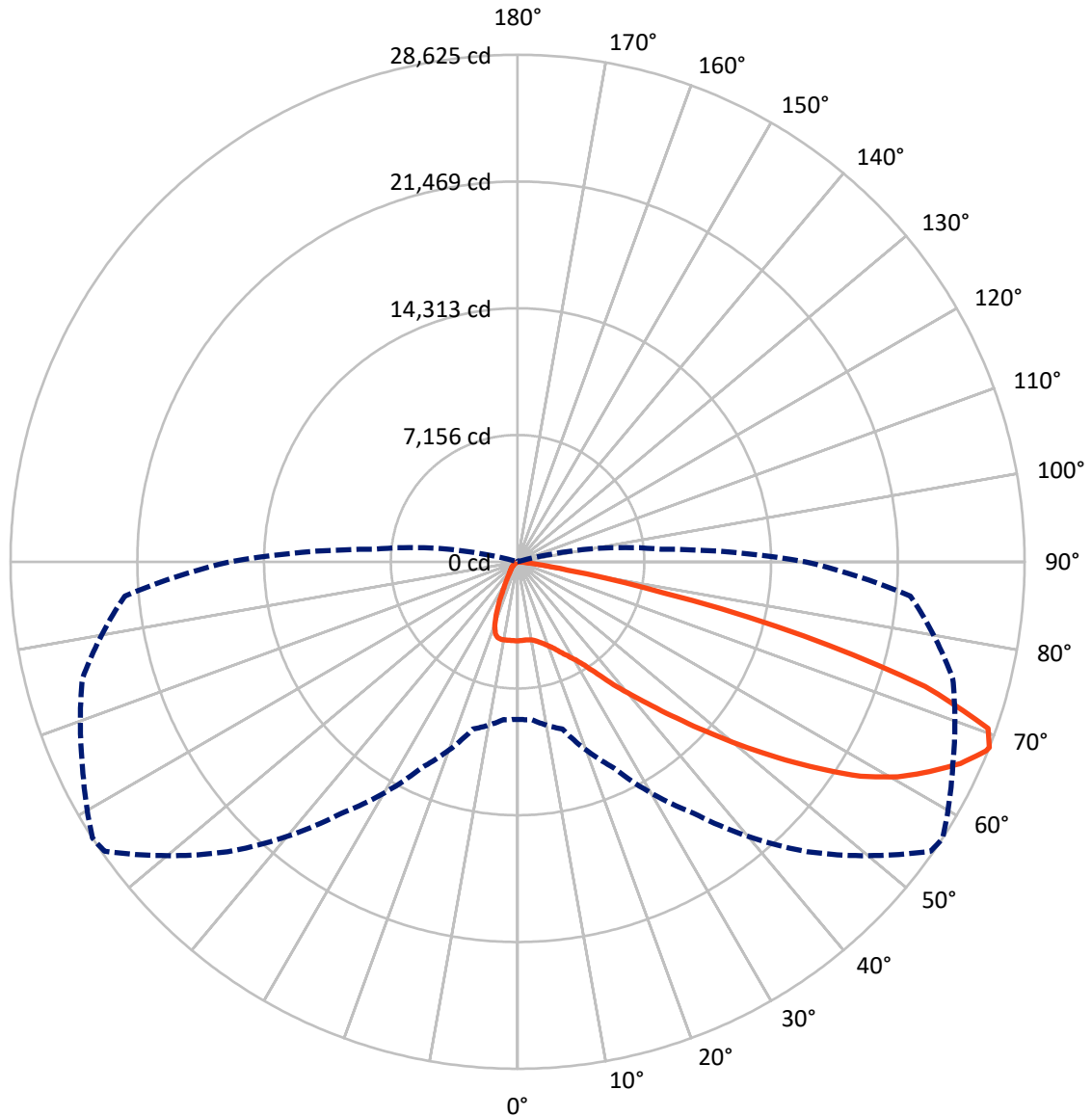
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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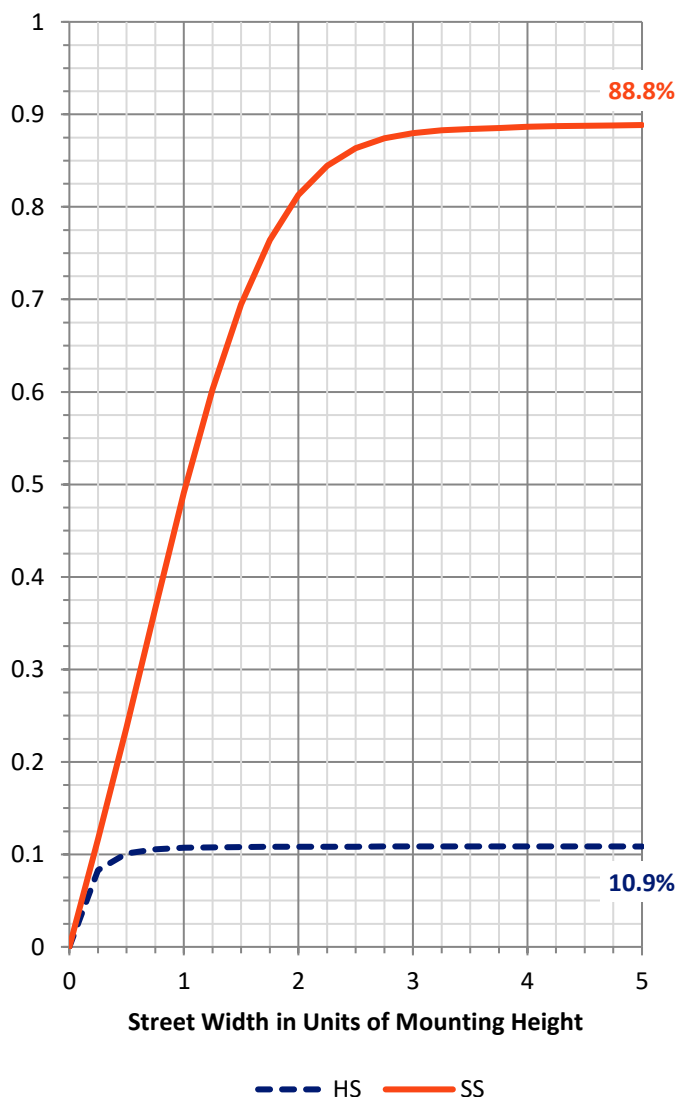
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4116.3	0.0	4116.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	33421.7	0.0	33421.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	37538.0	0.0	37538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.4	1.1
10°-20°	1156.7	3.1
20°-30°	1995.5	5.3
30°-40°	3444.1	9.2
40°-50°	5891.3	15.7
50°-60°	9425.5	25.1
60°-70°	10890.1	29.0
70°-80°	4161.3	11.1
80°-90°	156.0	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°	37538.0	100.0
0°-180°	37538.0	100.0

Coefficient of Utilization



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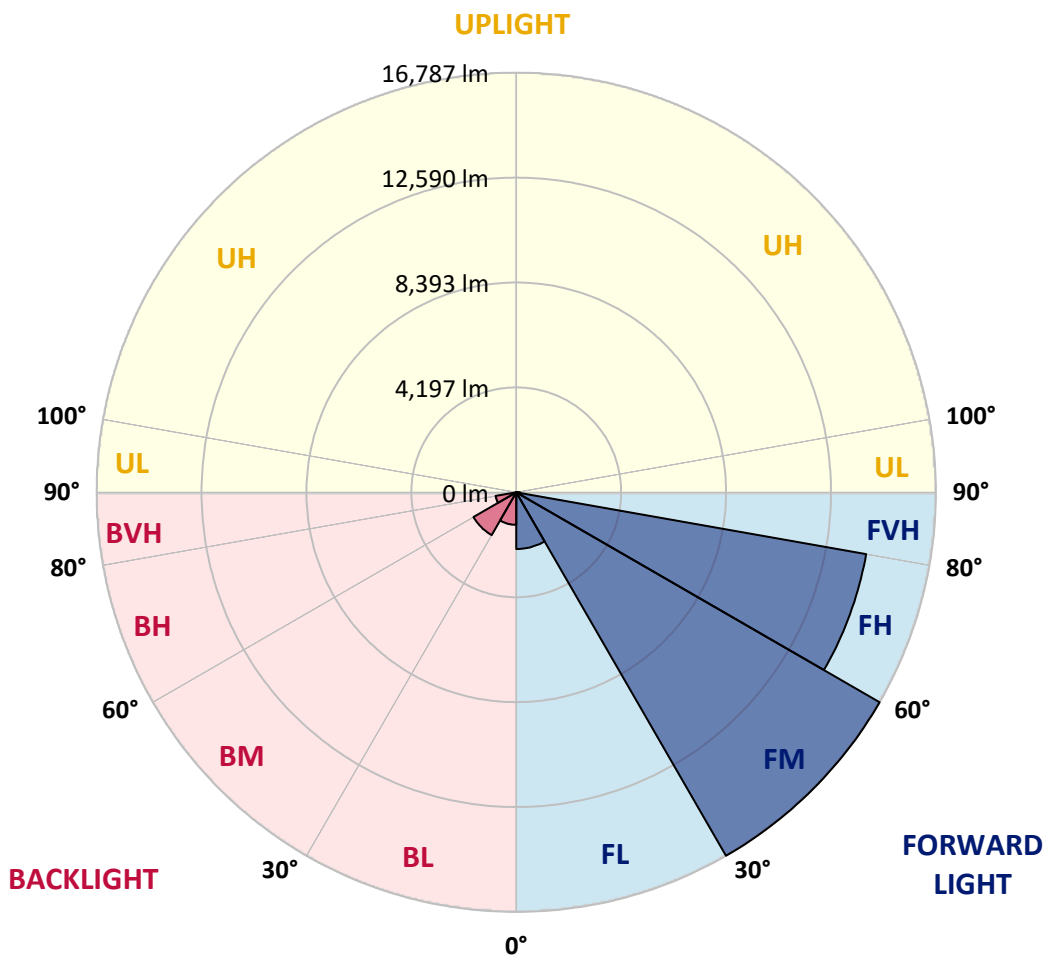
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2268.8	6.0			
FM (30°-60°)	16786.7	44.7			
FH (60°-80°)	14213.1	37.9			G5
FVH (80°-90°)	153.1	0.4			G2/225
BL (0°-30°)	1300.9	3.5	B3/2500		
BM (30°-60°)	1974.2	5.3	B2/2500		
BH (60°-80°)	838.3	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.8	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°	4460.5	4460.5	4460.5	4460.5	4460.5	4460.5	4460.5	4460.5	4460.5	4460.5	4460.5
2.5°	4355.8	4375.3	4389.5	4398.4	4409.0	4432.1	4439.2	4449.9	4455.2	4455.2	4467.6
5°	4183.6	4204.9	4235.1	4259.9	4309.6	4373.5	4419.7	4437.4	4469.4	4497.8	4513.8
7.5°	4023.9	4048.7	4084.2	4142.8	4228.0	4330.9	4426.8	4451.6	4513.8	4574.1	4604.3
10°	3920.9	3940.4	3986.6	4070.0	4181.8	4325.6	4460.5	4490.7	4597.2	4698.4	4755.1
12.5°	3885.4	3903.2	3951.1	4045.2	4183.6	4352.2	4538.6	4583.0	4739.2	4886.5	4966.4
15°	3936.9	3940.4	3991.9	4080.7	4217.3	4417.9	4668.2	4721.4	4918.4	5110.1	5209.5
17.5°	4135.7	4119.7	4146.3	4185.4	4293.7	4504.9	4804.8	4884.7	5147.4	5372.8	5466.9
20°	4632.7	4632.7	4572.3	4465.8	4467.6	4639.8	4989.4	5080.0	5401.2	5662.2	5747.4
22.5°	5482.9	5466.9	5346.2	5085.3	4845.7	4872.3	5214.9	5332.0	5706.5	5985.2	6013.6
25°	6505.3	6485.7	6299.4	5932.0	5516.6	5248.6	5520.2	5655.1	6070.4	6317.1	6258.6
27.5°	7588.0	7572.0	7387.4	6931.3	6340.2	5848.5	5884.0	6011.8	6441.4	6684.5	6498.2
30°	8637.0	8642.3	8459.5	7990.9	7321.8	6613.5	6345.5	6420.1	6801.7	7048.4	6782.2
32.5°	9634.5	9641.6	9483.7	8960.1	8335.3	7502.8	6984.5	6965.0	7220.6	7463.8	7158.5
35°	10523.8	10541.6	10433.3	10026.8	9364.8	8493.2	7813.4	7767.3	7815.2	8090.3	7735.3
37.5°	11381.1	11391.8	11310.1	10967.6	10413.8	9581.3	8860.7	8795.0	8692.0	8903.3	8496.8
40°	12320.1	12293.5	12199.4	11888.8	11413.1	10783.0	9986.0	9872.4	9693.1	9881.3	9497.9
42.5°	13193.4	13163.2	13179.2	12827.7	12426.6	12018.3	11297.7	11102.4	10997.7	11214.3	10726.2
45°	14285.0	14269.0	14322.2	14017.0	13692.1	13395.7	12801.1	12588.1	12542.0	12795.8	12211.8
47.5°	15362.4	15401.4	15566.5	15436.9	15305.6	15044.7	14393.2	14297.4	14325.8	14632.9	13779.1
50°	16260.5	16306.7	16759.3	16908.4	17098.3	16945.7	16292.5	16233.9	16345.7	16622.6	15465.3
52.5°	16910.2	17004.2	17566.9	18253.8	18946.0	19049.0	18397.6	18344.3	18495.2	18537.8	16768.2
55°	17361.0	17444.4	18081.6	19338.3	20747.6	21191.4	20786.7	20580.8	20552.4	20131.7	18138.4
57.5°	17440.9	17432.0	18347.9	20039.4	22160.5	23305.4	23049.8	22847.4	22265.2	21605.0	19709.3
60°	16990.0	17041.5	18104.7	20282.6	23048.0	24904.6	24924.2	24661.5	23754.4	23037.4	21232.2
62.5°	15602.0	15811.4	16885.3	19645.4	23037.4	25548.9	26298.0	26097.4	25012.9	24210.6	22776.4
65°	13351.3	13425.9	14450.0	17462.2	21480.7	25279.1	27535.1	27460.6	26147.1	25350.1	23569.9
67.5°	9749.9	9588.4	10664.0	13750.7	18186.4	23706.5	28422.6	28516.7	27022.2	25584.4	22725.0
68°	8897.9	8945.9	9783.6	12833.0	17323.7	23151.0	28481.2	28625.0	27109.1	25431.8	22263.5
70°	5303.6	5395.9	6143.2	8835.8	13179.2	20007.5	27849.3	28177.7	26590.9	23857.4	19256.7
72.5°	1354.3	1464.4	2170.8	3954.6	7527.7	14096.8	23509.5	24065.1	23087.1	19354.3	12999.9
75°	557.3	585.7	775.7	1302.8	2804.5	6350.8	15495.5	16684.7	16004.9	11587.0	5875.2
77.5°	385.2	404.7	498.8	722.4	1214.1	2153.0	7596.9	8456.0	7618.2	3954.6	1281.5
80°	276.9	292.9	356.8	481.0	697.6	768.6	2476.1	2863.0	2273.7	868.0	317.7
82.5°	165.1	177.5	266.2	342.6	424.2	367.4	615.9	699.3	658.5	431.3	142.0
85°	81.6	95.8	179.3	244.9	229.0	154.4	188.1	209.4	259.1	262.7	76.3
87.5°	5.3	10.6	104.7	147.3	63.9	35.5	55.0	67.4	92.3	129.6	31.9
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°	4460.5	4460.5	4460.5	4460.5	4460.5	4460.5	4460.5	4460.5	4460.5	4460.5	4460.5
2.5°	4472.9	4474.7	4462.3	4457.0	4460.5	4439.2	4430.3	4433.9	4433.9	4439.2	4430.3
5°	4517.3	4517.3	4496.0	4467.6	4451.6	4410.8	4384.2	4377.1	4371.8	4368.2	4361.1
7.5°	4613.2	4602.5	4565.2	4503.1	4449.9	4361.1	4293.7	4258.2	4240.4	4233.3	4228.0
10°	4767.6	4748.0	4685.9	4570.6	4448.1	4290.1	4142.8	4038.1	3951.1	3915.6	3894.3
12.5°	4975.2	4946.8	4842.1	4650.4	4435.7	4144.6	3825.1	3518.0	3232.2	3115.1	3056.5
15°	5214.9	5174.0	5009.0	4717.9	4362.9	3816.2	3122.2	2584.4	2188.5	2039.4	1975.5
17.5°	5458.0	5404.8	5154.5	4760.5	4144.6	3136.4	2190.3	1654.3	1389.8	1318.8	1294.0
20°	5703.0	5624.9	5280.5	4728.5	3651.1	2261.3	1444.8	1208.8	1132.4	1111.1	1104.0
22.5°	5935.5	5814.8	5394.1	4604.3	2891.4	1517.6	1143.1	1068.5	1043.7	1031.3	1027.7
25°	6137.9	5969.2	5493.5	4220.9	2046.5	1146.6	1029.5	1004.6	972.7	949.6	951.4
27.5°	6327.8	6123.7	5553.9	3589.0	1365.0	979.8	953.2	919.4	860.9	827.1	827.1
30°	6556.7	6329.5	5598.3	2761.9	1004.6	866.2	844.9	793.4	713.5	669.2	669.2
32.5°	6901.1	6641.9	5569.9	1938.3	832.5	761.5	711.8	640.8	553.8	511.2	509.4
35°	7428.3	7124.7	5367.5	1270.9	734.8	662.1	582.2	495.2	418.9	383.4	381.6
37.5°	8138.2	7770.8	4913.1	908.8	658.5	569.8	473.9	378.1	321.3	298.2	296.4
40°	9059.5	8521.6	4263.5	736.6	587.5	481.0	365.6	292.9	253.8	236.1	237.8
42.5°	10165.3	9325.7	3484.3	635.4	518.3	395.8	285.8	230.7	205.9	193.5	189.9
45°	11393.5	10119.1	2667.8	566.2	449.1	319.5	223.6	182.8	163.3	156.2	156.2
47.5°	12744.3	10891.2	1952.5	505.9	374.5	246.7	179.3	149.1	133.1	127.8	126.0
50°	13970.8	11427.3	1407.6	442.0	307.1	195.2	145.5	124.2	113.6	106.5	106.5
52.5°	14993.2	11595.9	1036.6	372.7	248.5	156.2	120.7	106.5	95.8	90.5	90.5
55°	15893.1	11526.7	770.3	307.1	200.6	127.8	102.9	90.5	81.6	76.3	76.3
57.5°	16755.7	11303.0	575.1	250.3	161.5	102.9	87.0	76.3	67.4	63.9	63.9
60°	17460.4	10930.3	427.8	202.3	129.6	83.4	72.8	62.1	55.0	49.7	49.7
62.5°	18031.9	10518.5	314.2	166.8	102.9	65.7	56.8	51.5	40.8	35.5	35.5
65°	18035.5	9835.1	236.1	138.4	79.9	51.5	42.6	40.8	26.6	21.3	19.5
67.5°	16730.9	8479.0	181.0	118.9	62.1	39.0	31.9	33.7	14.2	8.9	7.1
68°	16257.0	8134.7	170.4	117.1	58.6	37.3	30.2	33.7	12.4	7.1	5.3
70°	13706.3	6471.5	136.7	113.6	51.5	28.4	24.8	33.7	10.6	5.3	3.5
72.5°	8766.6	3755.8	101.2	90.5	39.0	21.3	16.0	30.2	10.6	3.5	1.8
75°	3731.0	1164.4	69.2	63.9	23.1	16.0	10.6	19.5	7.1	1.8	0.0
77.5°	786.3	262.7	40.8	39.0	16.0	10.6	7.1	5.3	1.8	0.0	0.0
80°	202.3	76.3	21.3	19.5	8.9	5.3	3.5	0.0	0.0	0.0	0.0
82.5°	63.9	30.2	12.4	8.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.9	17.7	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.7	5.3	1.8	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)