

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: P322244

Luminaire Tested: **GAN-SA0B-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322244
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-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 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: 41220 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

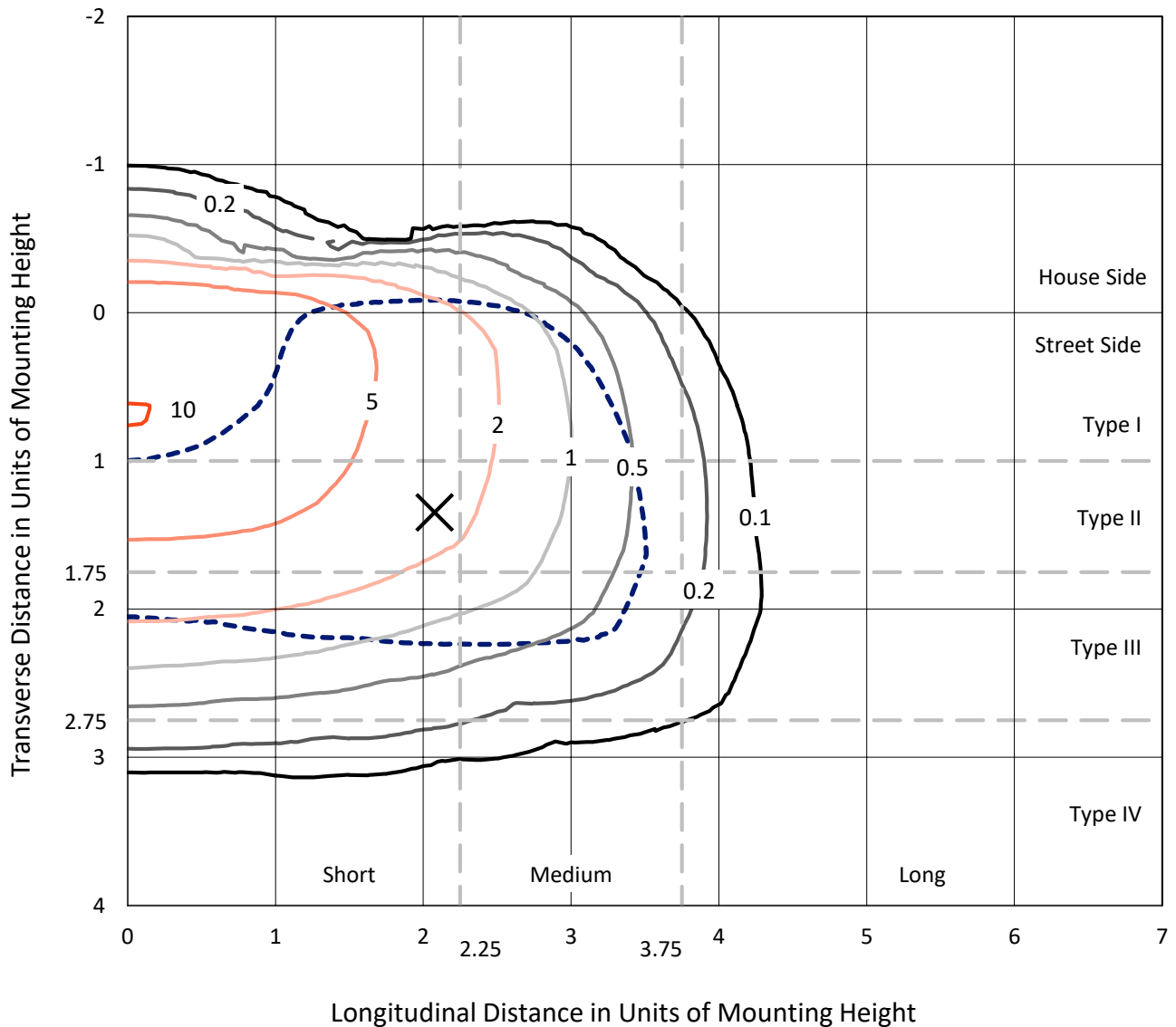
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

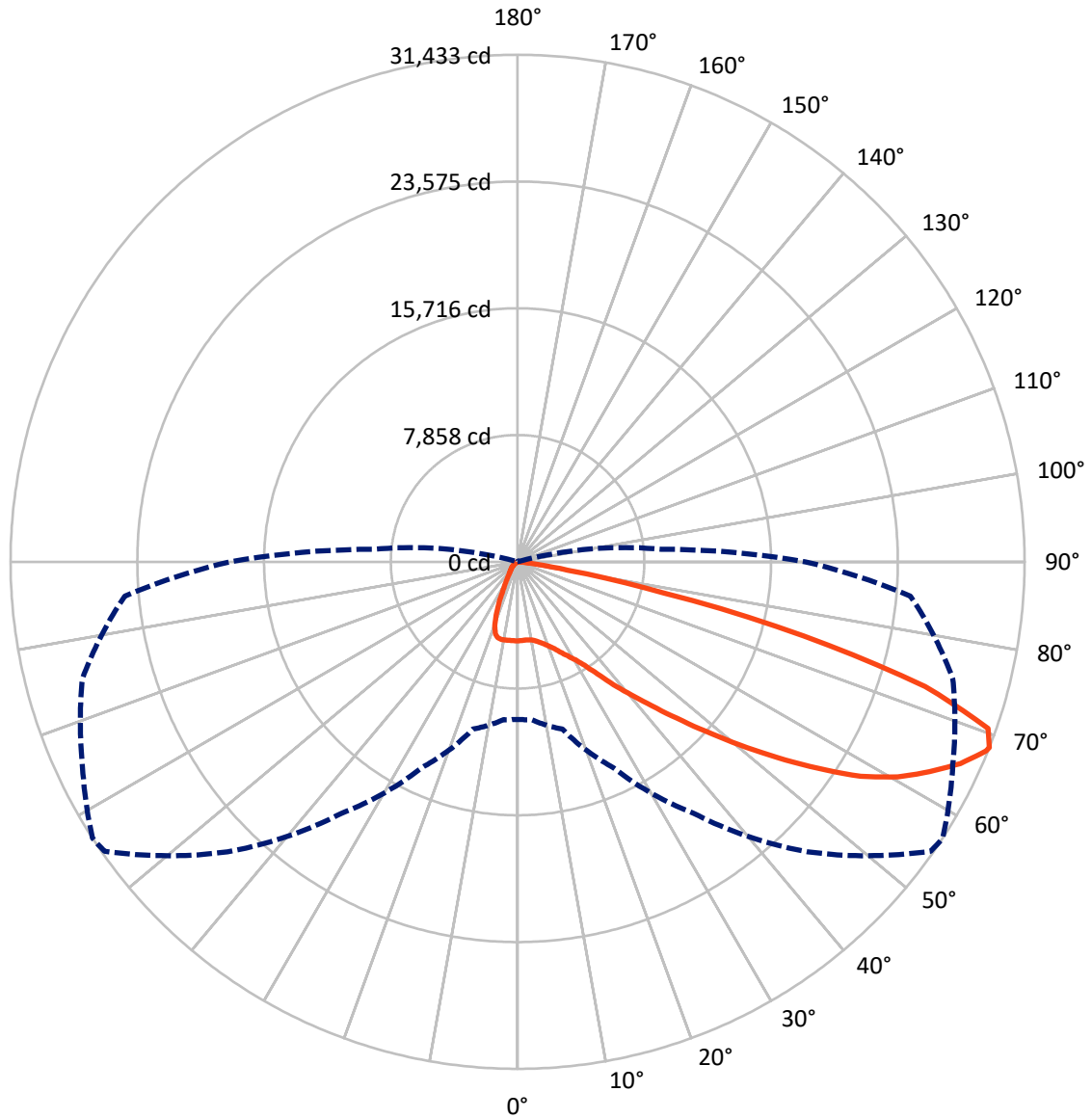
✕ Max cd
 - - - 1/2 Max cd



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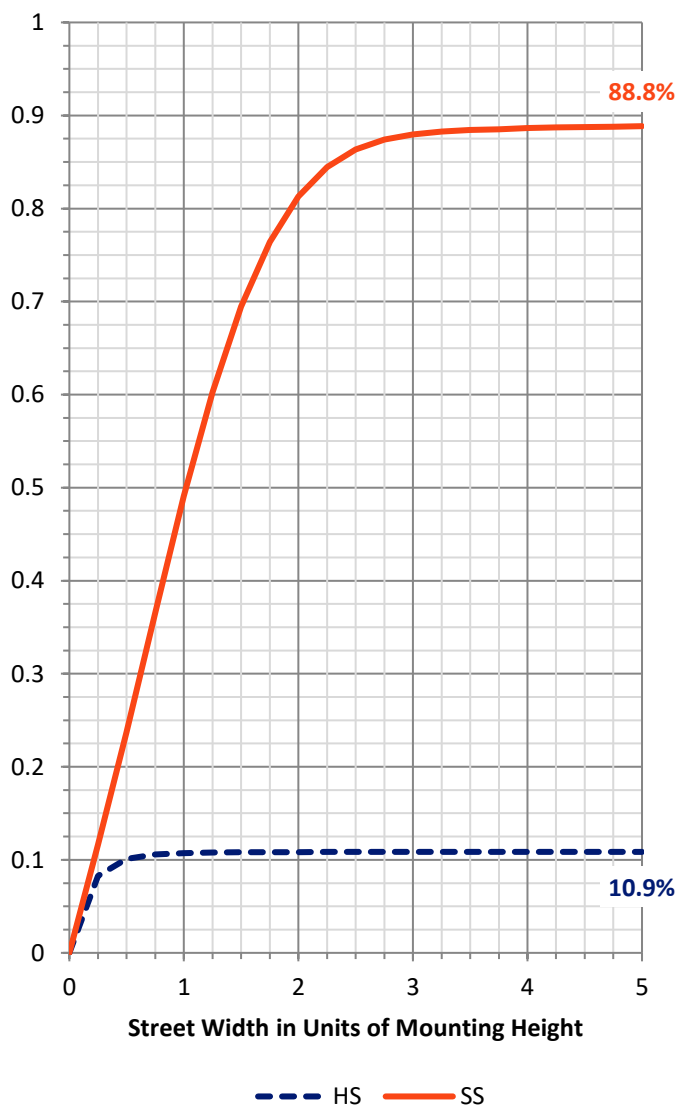
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4520.0	0.0	4520.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	36700.0	0.0	36700.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	41220.0	0.0	41220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.4	1.1
10°-20°	1270.2	3.1
20°-30°	2191.2	5.3
30°-40°	3782.0	9.2
40°-50°	6469.1	15.7
50°-60°	10350.0	25.1
60°-70°	11958.3	29.0
70°-80°	4569.4	11.1
80°-90°	171.3	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°	41220.0	100.0
0°-180°	41220.0	100.0

Coefficient of Utilization



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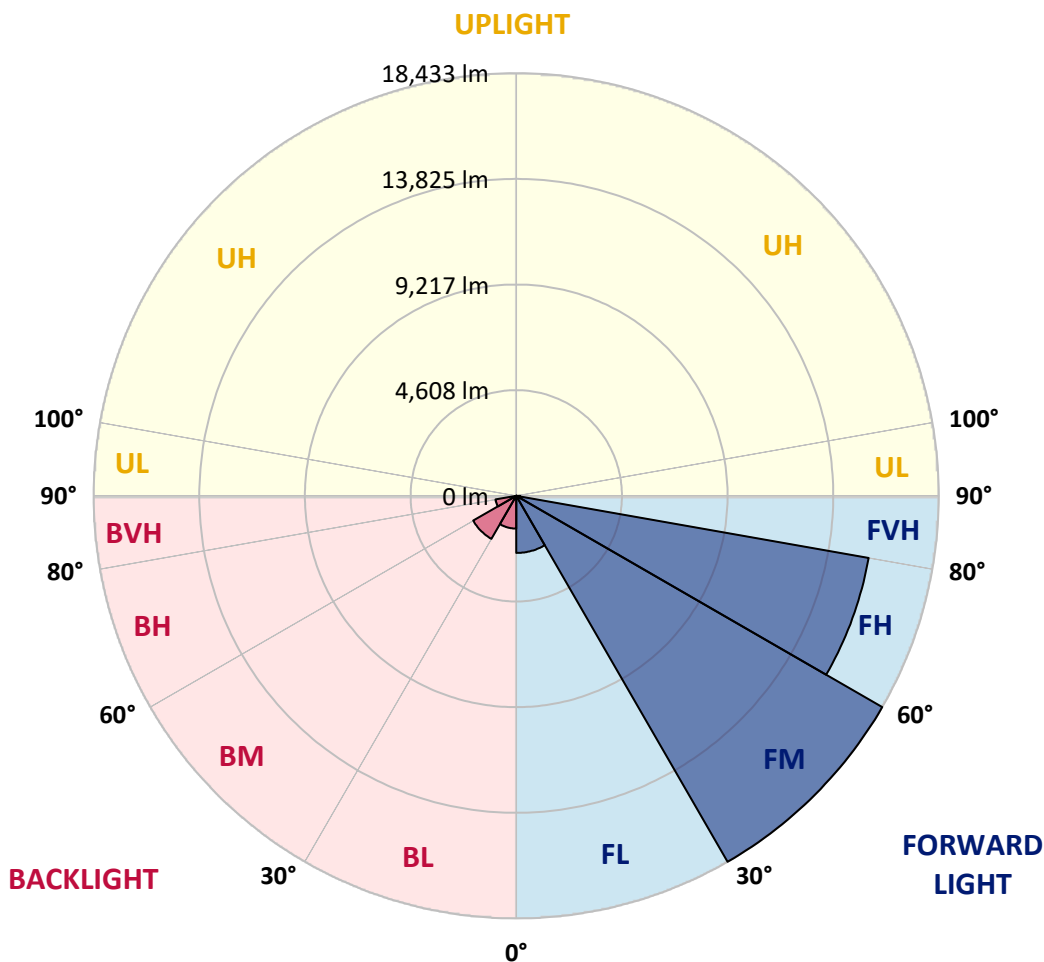
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2491.4	6.0			
FM (30°-60°)	18433.2	44.7			
FH (60°-80°)	15607.2	37.9			G5
FVH (80°-90°)	168.2	0.4			G2/225
BL (0°-30°)	1428.5	3.5	B3/2500		
BM (30°-60°)	2167.9	5.3	B2/2500		
BH (60°-80°)	920.5	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°	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0
2.5°	4783.0	4804.5	4820.1	4829.8	4841.5	4866.8	4874.6	4886.3	4892.2	4892.2	4905.8
5°	4594.0	4617.4	4650.5	4677.8	4732.4	4802.5	4853.2	4872.7	4907.8	4939.0	4956.5
7.5°	4418.6	4445.8	4484.8	4549.1	4642.7	4755.7	4861.0	4888.3	4956.5	5022.8	5055.9
10°	4305.5	4326.9	4377.6	4469.2	4592.0	4749.9	4898.0	4931.2	5048.1	5159.2	5221.6
12.5°	4266.5	4286.0	4338.6	4441.9	4594.0	4779.1	4983.8	5032.5	5204.0	5365.8	5453.5
15°	4323.0	4326.9	4383.5	4480.9	4631.0	4851.2	5126.1	5184.5	5400.9	5611.4	5720.5
17.5°	4541.3	4523.8	4553.0	4595.9	4714.8	4946.7	5276.1	5363.9	5652.3	5899.8	6003.1
20°	5087.1	5087.1	5020.8	4903.9	4905.8	5094.9	5478.8	5578.2	5931.0	6217.5	6311.1
22.5°	6020.7	6003.1	5870.6	5584.1	5321.0	5350.2	5726.4	5855.0	6266.3	6572.3	6603.5
25°	7143.4	7121.9	6917.3	6513.8	6057.7	5763.4	6061.6	6209.7	6665.8	6936.8	6872.4
27.5°	8332.3	8314.7	8112.0	7611.1	6962.1	6422.2	6461.2	6601.5	7073.2	7340.2	7135.6
30°	9484.2	9490.0	9289.3	8774.7	8039.9	7262.2	6967.9	7049.8	7468.9	7739.8	7447.4
32.5°	10579.6	10587.4	10413.9	9838.9	9152.9	8238.7	7669.6	7648.2	7928.8	8195.9	7860.6
35°	11556.1	11575.5	11456.7	11010.3	10283.3	9326.3	8579.8	8529.1	8581.8	8883.9	8494.1
37.5°	12497.5	12509.2	12419.5	12043.3	11435.2	10521.1	9729.8	9657.7	9544.6	9776.6	9330.2
40°	13528.5	13499.3	13396.0	13054.9	12532.5	11840.6	10965.5	10840.7	10643.9	10850.5	10429.5
42.5°	14487.5	14454.3	14471.9	14086.0	13645.5	13197.2	12405.9	12191.5	12076.5	12314.2	11778.3
45°	15686.1	15668.6	15727.1	15391.8	15035.2	14709.7	14056.7	13822.8	13772.2	14050.9	13409.6
47.5°	16869.2	16912.1	17093.4	16951.1	16806.9	16520.4	15805.0	15699.8	15731.0	16068.2	15130.7
50°	17855.5	17906.1	18403.2	18566.9	18775.4	18607.8	17890.5	17826.2	17949.0	18253.1	16982.3
52.5°	18568.8	18672.1	19290.0	20044.3	20804.4	20917.5	20202.2	20143.7	20309.4	20356.1	18412.9
55°	19063.9	19155.5	19855.2	21235.2	22782.7	23270.0	22825.6	22599.5	22568.3	22106.4	19917.6
57.5°	19151.6	19141.9	20147.6	22005.0	24334.2	25591.3	25310.7	25088.5	24449.2	23724.1	21642.5
60°	18656.5	18713.1	19880.6	22272.1	25308.7	27347.5	27368.9	27080.4	26084.5	25297.0	23314.8
62.5°	17132.4	17362.4	18541.5	21572.4	25297.0	28055.0	28877.5	28657.2	27466.3	26585.4	25010.5
65°	14660.9	14742.8	15867.4	19175.0	23587.7	27758.7	30236.0	30154.1	28711.8	27836.7	25881.8
67.5°	10706.3	10528.9	11710.0	15099.5	19970.2	26031.8	31210.5	31313.8	29672.7	28094.0	24954.0
68°	9770.7	9823.3	10743.3	14091.8	19023.0	25421.8	31274.8	31432.7	29768.2	27926.3	24447.2
70°	5823.8	5925.2	6745.7	9702.5	14471.9	21970.0	30581.0	30941.5	29199.1	26197.5	21145.5
72.5°	1487.1	1608.0	2383.7	4342.5	8266.0	15479.5	25815.5	26425.5	25351.6	21252.7	14275.0
75°	612.0	643.2	851.7	1430.6	3079.5	6973.8	17015.4	18321.3	17574.8	12723.6	6451.4
77.5°	422.9	444.4	547.7	793.3	1333.2	2364.2	8342.0	9285.4	8365.4	4342.5	1407.2
80°	304.1	321.6	391.8	528.2	766.0	843.9	2719.0	3143.9	2496.8	953.1	348.9
82.5°	181.3	194.9	292.4	376.2	465.8	403.5	676.3	767.9	723.1	473.6	155.9
85°	89.7	105.2	196.9	269.0	251.4	169.6	206.6	230.0	284.6	288.5	83.8
87.5°	5.8	11.7	115.0	161.8	70.2	39.0	60.4	74.1	101.4	142.3	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°	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0
2.5°	4911.7	4913.6	4900.0	4894.1	4898.0	4874.6	4864.9	4868.8	4868.8	4874.6	4864.9
5°	4960.4	4960.4	4937.0	4905.8	4888.3	4843.4	4814.2	4806.4	4800.6	4796.7	4788.9
7.5°	5065.6	5053.9	5013.0	4944.8	4886.3	4788.9	4714.8	4675.8	4656.3	4648.5	4642.7
10°	5235.2	5213.8	5145.6	5018.9	4884.4	4710.9	4549.1	4434.1	4338.6	4299.7	4276.3
12.5°	5463.3	5432.1	5317.1	5106.6	4870.7	4551.1	4200.3	3863.1	3549.3	3420.6	3356.3
15°	5726.4	5681.6	5500.3	5180.6	4790.8	4190.5	3428.4	2837.9	2403.2	2239.5	2169.3
17.5°	5993.4	5934.9	5660.1	5227.4	4551.1	3444.0	2405.2	1816.5	1526.1	1448.2	1420.9
20°	6262.4	6176.6	5798.5	5192.3	4009.2	2483.1	1586.5	1327.3	1243.5	1220.1	1212.3
22.5°	6517.7	6385.2	5923.2	5055.9	3175.0	1666.5	1255.2	1173.3	1146.1	1132.4	1128.5
25°	6739.9	6554.7	6032.4	4634.9	2247.3	1259.1	1130.5	1103.2	1068.1	1042.8	1044.7
27.5°	6948.4	6724.3	6098.7	3941.0	1498.8	1075.9	1046.7	1009.6	945.3	908.3	908.3
30°	7199.9	6950.4	6147.4	3032.8	1103.2	951.1	927.8	871.2	783.5	734.8	734.8
32.5°	7578.0	7293.4	6116.2	2128.4	914.1	836.2	781.6	703.6	608.1	561.3	559.4
35°	8156.9	7823.6	5894.0	1395.5	806.9	727.0	639.3	543.8	460.0	421.0	419.1
37.5°	8936.5	8533.0	5395.0	997.9	723.1	625.7	520.4	415.2	352.8	327.4	325.5
40°	9948.1	9357.5	4681.7	808.9	645.1	528.2	401.5	321.6	278.7	259.2	261.2
42.5°	11162.3	10240.4	3826.0	697.8	569.1	434.6	313.8	253.4	226.1	212.4	208.6
45°	12511.1	11111.7	2929.5	621.8	493.1	350.8	245.6	200.8	179.3	171.5	171.5
47.5°	13994.4	11959.5	2144.0	555.5	411.3	270.9	196.9	163.7	146.2	140.3	138.4
50°	15341.2	12548.1	1545.6	485.3	337.2	214.4	159.8	136.4	124.7	116.9	116.9
52.5°	16463.8	12733.3	1138.3	409.3	272.9	171.5	132.5	116.9	105.2	99.4	99.4
55°	17452.0	12657.3	845.9	337.2	220.2	140.3	113.0	99.4	89.7	83.8	83.8
57.5°	18399.3	12411.7	631.5	274.8	177.4	113.0	95.5	83.8	74.1	70.2	70.2
60°	19173.0	12002.4	469.7	222.2	142.3	91.6	79.9	68.2	60.4	54.6	54.6
62.5°	19800.6	11550.2	345.0	183.2	113.0	72.1	62.4	56.5	44.8	39.0	39.0
65°	19804.5	10799.8	259.2	152.0	87.7	56.5	46.8	44.8	29.2	23.4	21.4
67.5°	18372.0	9310.7	198.8	130.6	68.2	42.9	35.1	37.0	15.6	9.7	7.8
68°	17851.6	8932.6	187.1	128.6	64.3	40.9	33.1	37.0	13.6	7.8	5.8
70°	15050.7	7106.3	150.1	124.7	56.5	31.2	27.3	37.0	11.7	5.8	3.9
72.5°	9626.5	4124.2	111.1	99.4	42.9	23.4	17.5	33.1	11.7	3.9	1.9
75°	4097.0	1278.6	76.0	70.2	25.3	17.5	11.7	21.4	7.8	1.9	0.0
77.5°	863.4	288.5	44.8	42.9	17.5	11.7	7.8	5.8	1.9	0.0	0.0
80°	222.2	83.8	23.4	21.4	9.7	5.8	3.9	0.0	0.0	0.0	0.0
82.5°	70.2	33.1	13.6	9.7	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	5.8	1.9	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)