

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: P322224

Luminaire Tested: **GAN-SA0D-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322224
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-SA0D-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 50969 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

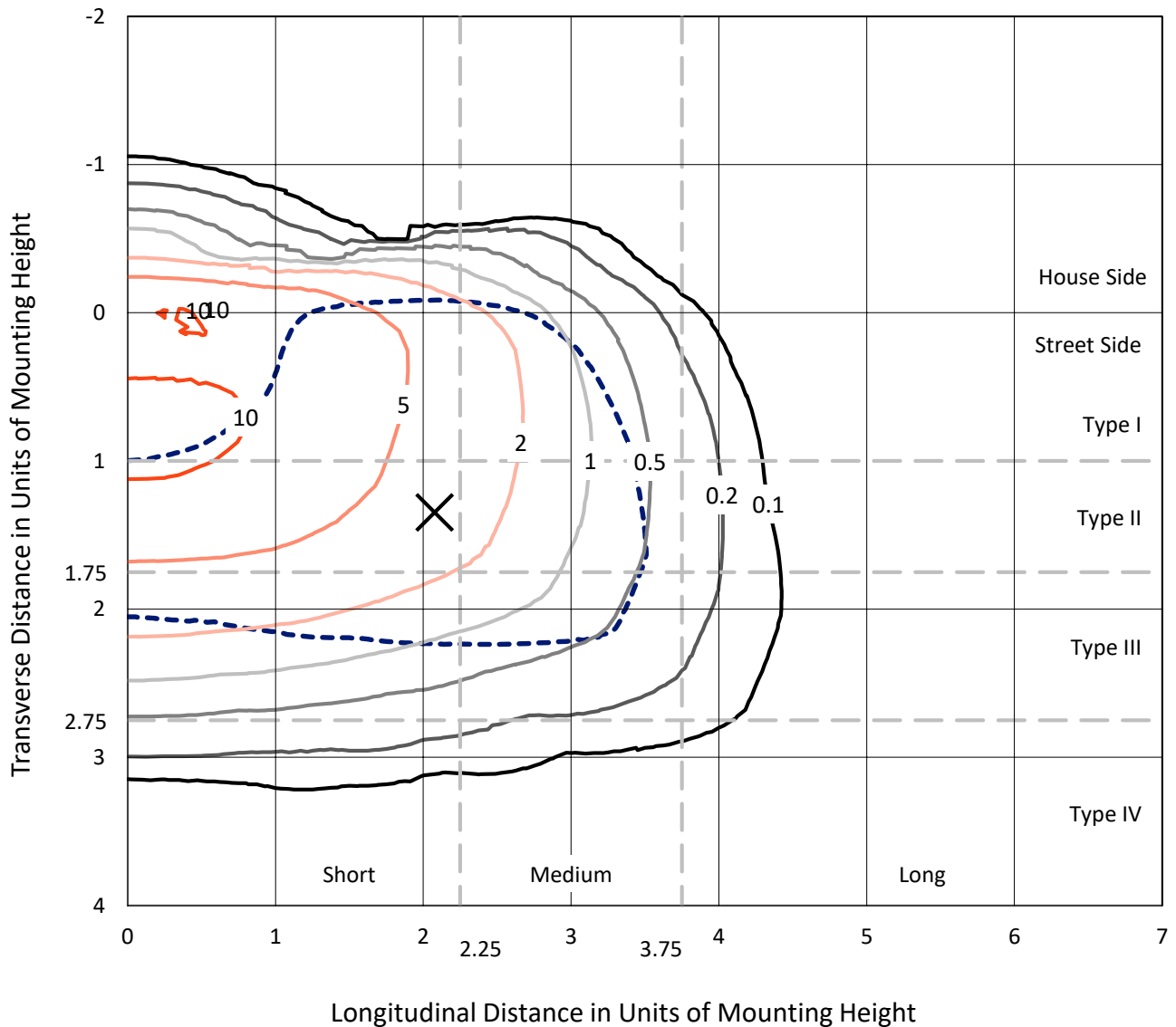
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

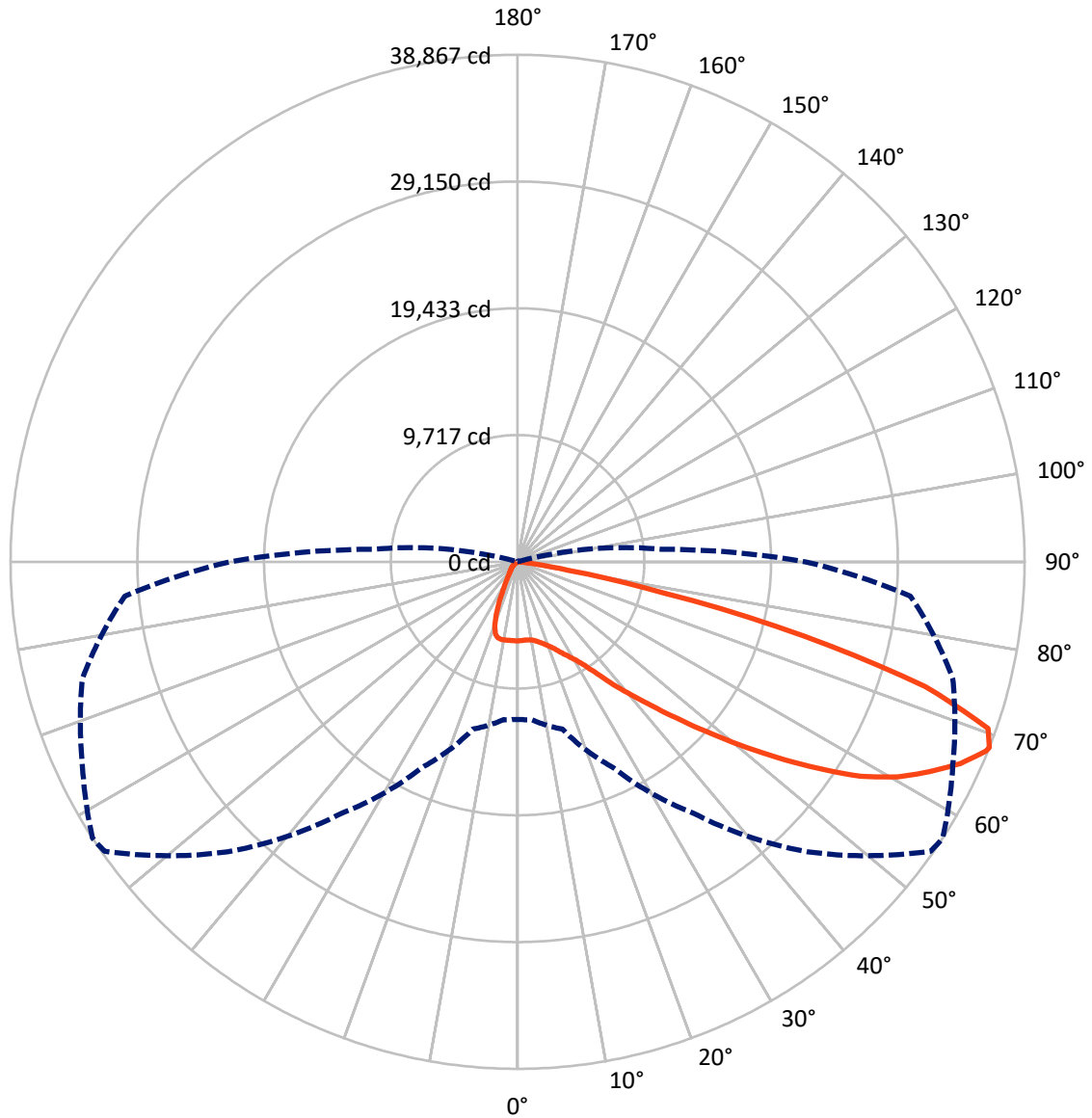
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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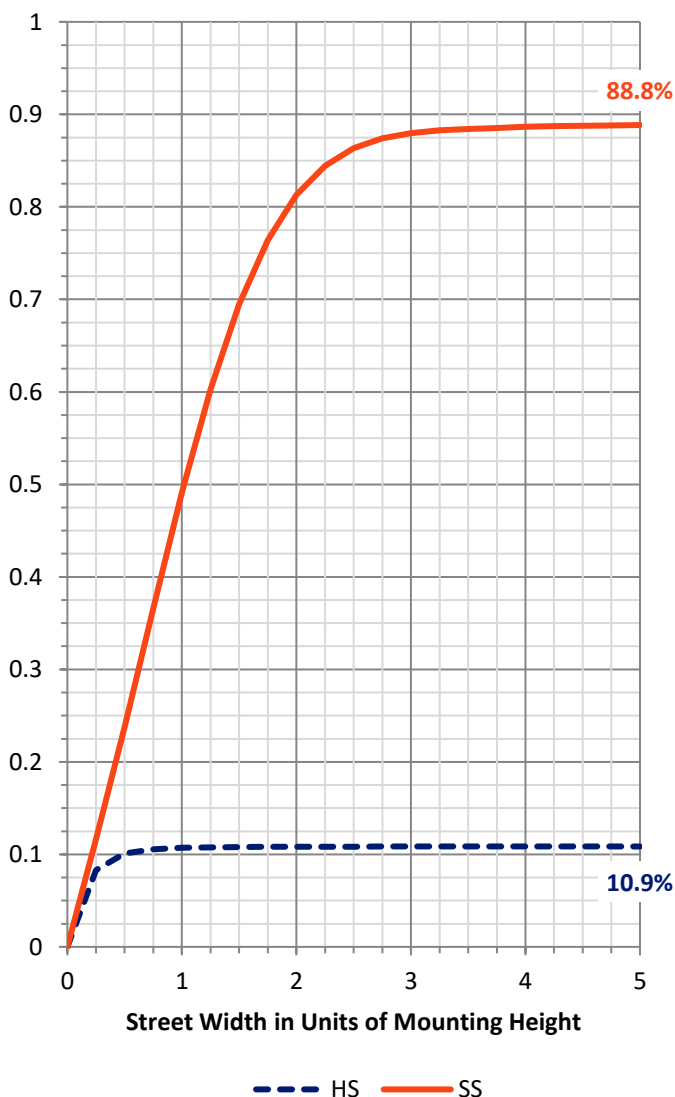
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5589.1	0.0	5589.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	45379.9	0.0	45379.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	50969.0	0.0	50969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.8	1.1
10°-20°	1570.6	3.1
20°-30°	2709.5	5.3
30°-40°	4676.4	9.2
40°-50°	7999.2	15.7
50°-60°	12797.9	25.1
60°-70°	14786.6	29.0
70°-80°	5650.2	11.1
80°-90°	211.8	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°	50969.0	100.0
0°-180°	50969.0	100.0

Coefficient of Utilization



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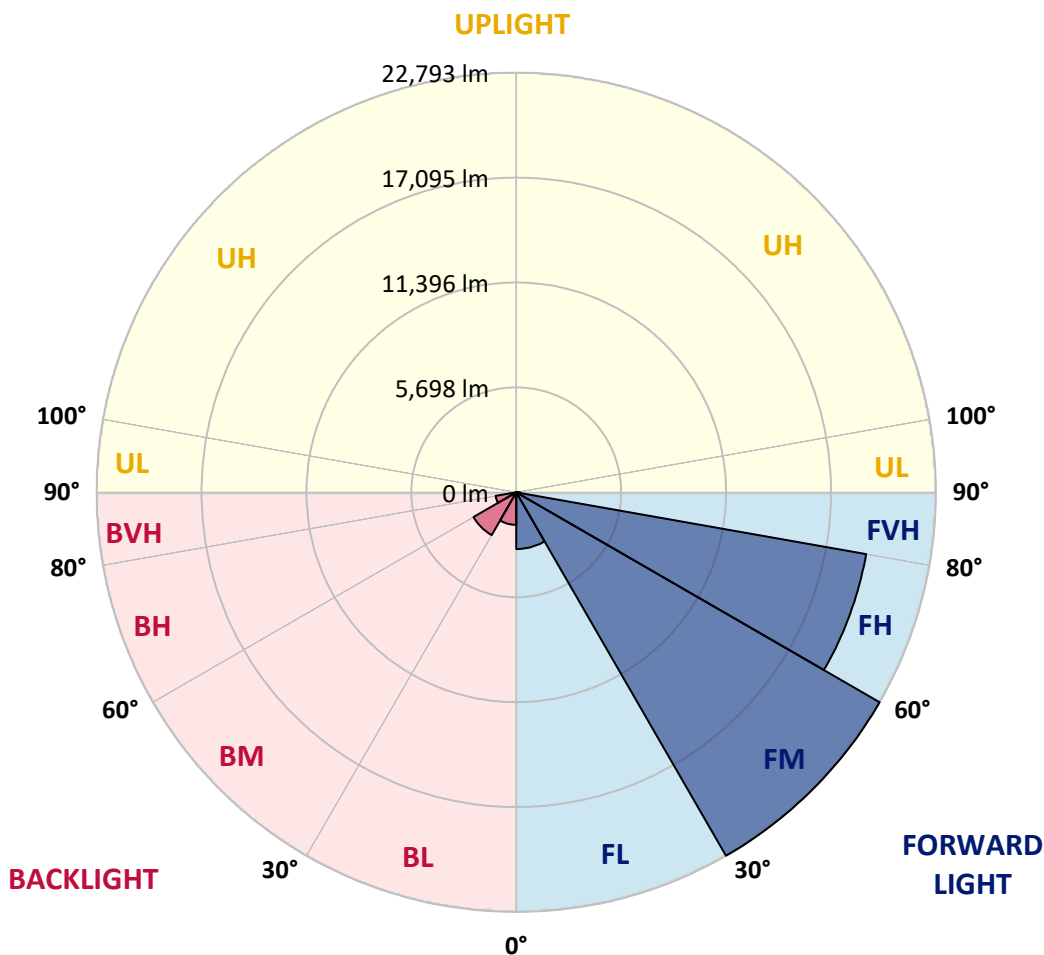
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3080.6	6.0			
FM (30°-60°)	22792.9	44.7			
FH (60°-80°)	19298.5	37.9			G5
FVH (80°-90°)	207.9	0.4			G2/225
BL (0°-30°)	1766.3	3.5	B3/2500		
BM (30°-60°)	2680.6	5.3	B3/5000		
BH (60°-80°)	1138.3	2.2	B3/2500		G3/2500
BVH (80°-90°)	3.9	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°	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5
2.5°	5914.3	5940.8	5960.1	5972.1	5986.6	6017.9	6027.5	6042.0	6049.2	6049.2	6066.1
5°	5680.5	5709.4	5750.4	5784.1	5851.6	5938.4	6001.0	6025.1	6068.5	6107.1	6128.8
7.5°	5463.6	5497.3	5545.5	5625.1	5740.7	5880.5	6010.7	6044.4	6128.8	6210.7	6251.7
10°	5323.8	5350.3	5413.0	5526.2	5678.1	5873.3	6056.5	6097.4	6242.0	6379.4	6456.5
12.5°	5275.6	5299.7	5364.8	5492.5	5680.5	5909.4	6162.5	6222.8	6434.8	6634.9	6743.3
15°	5345.5	5350.3	5420.2	5540.7	5726.3	5998.6	6338.4	6410.7	6678.3	6938.5	7073.5
17.5°	5615.4	5593.7	5629.9	5682.9	5829.9	6116.7	6524.0	6632.5	6989.2	7295.2	7423.0
20°	6290.2	6290.2	6208.3	6063.7	6066.1	6299.9	6774.7	6897.6	7333.8	7688.1	7803.7
22.5°	7444.7	7423.0	7259.1	6904.8	6579.4	6615.6	7080.7	7239.8	7748.3	8126.7	8165.3
25°	8832.8	8806.3	8553.3	8054.4	7490.4	7126.5	7495.3	7678.4	8242.4	8577.4	8497.8
27.5°	10303.0	10281.3	10030.6	9411.3	8608.7	7941.1	7989.3	8162.8	8746.1	9076.3	8823.2
30°	11727.3	11734.5	11486.3	10850.1	9941.5	8979.9	8615.9	8717.2	9235.3	9570.3	9208.8
32.5°	13081.8	13091.4	12876.9	12165.9	11317.6	10187.3	9483.6	9457.0	9804.1	10134.3	9719.7
35°	14289.2	14313.3	14166.3	13614.4	12715.4	11532.1	10609.0	10546.4	10611.5	10985.0	10503.0
37.5°	15453.3	15467.7	15356.9	14891.7	14139.8	13009.5	12031.0	11941.8	11802.0	12088.8	11536.9
40°	16728.2	16692.0	16564.3	16142.5	15496.6	14641.1	13559.0	13404.7	13161.3	13416.8	12896.2
42.5°	17913.9	17872.9	17894.6	17417.4	16872.8	16318.5	15340.0	15074.9	14932.7	15226.7	14563.9
45°	19396.1	19374.4	19446.7	19032.2	18591.1	18188.7	17381.3	17092.1	17029.4	17374.1	16581.2
47.5°	20859.0	20912.0	21136.2	20960.2	20781.9	20427.6	19543.1	19413.0	19451.5	19868.5	18709.2
50°	22078.5	22141.1	22755.7	22958.2	23216.0	23008.8	22121.9	22042.3	22194.2	22570.1	20998.8
52.5°	22960.6	23088.3	23852.3	24785.0	25724.9	25864.7	24980.2	24907.9	25112.7	25170.6	22767.8
55°	23572.7	23686.0	24551.2	26257.5	28171.1	28773.6	28224.1	27944.6	27906.0	27334.8	24628.3
57.5°	23681.2	23669.1	24912.7	27209.5	30089.5	31644.0	31296.9	31022.2	30231.7	29335.2	26761.2
60°	23069.0	23138.9	24582.5	27539.7	31294.5	33815.4	33842.0	33485.3	32253.7	31280.1	28829.0
62.5°	21184.4	21468.7	22926.8	26674.5	31280.1	34690.3	35707.3	35435.0	33962.5	32873.1	30925.8
65°	18128.4	18229.6	19620.2	23710.1	29166.5	34324.0	37387.1	37285.9	35502.5	34420.4	32003.1
67.5°	13238.4	13019.1	14479.6	18670.7	24693.4	32188.7	38592.2	38719.9	36690.6	34738.5	30855.9
68°	12081.6	12146.7	13284.2	17424.7	23522.1	31434.3	38671.7	38866.9	36808.7	34531.2	30229.3
70°	7201.2	7326.6	8341.2	11997.2	17894.6	27166.1	37813.7	38259.6	36105.0	32393.5	26146.7
72.5°	1838.9	1988.3	2947.5	5369.6	10221.0	19140.6	31921.1	32675.5	31347.5	26279.2	17651.2
75°	756.8	795.3	1053.2	1769.0	3807.9	8623.2	21039.8	22654.5	21731.4	15732.8	7977.3
77.5°	523.0	549.5	677.2	980.9	1648.5	2923.4	10315.0	11481.5	10343.9	5369.6	1740.1
80°	376.0	397.7	484.4	653.1	947.2	1043.6	3362.0	3887.4	3087.3	1178.5	431.4
82.5°	224.1	241.0	361.5	465.1	576.0	498.9	836.3	949.6	894.1	585.6	192.8
85°	110.9	130.1	243.4	332.6	310.9	209.7	255.5	284.4	351.9	356.7	103.6
87.5°	7.2	14.5	142.2	200.0	86.8	48.2	74.7	91.6	125.3	175.9	43.4
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°	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5
2.5°	6073.3	6075.7	6058.9	6051.6	6056.5	6027.5	6015.5	6020.3	6020.3	6027.5	6015.5
5°	6133.6	6133.6	6104.7	6066.1	6044.4	5989.0	5952.8	5943.2	5936.0	5931.1	5921.5
7.5°	6263.7	6249.3	6198.7	6114.3	6042.0	5921.5	5829.9	5781.7	5757.6	5748.0	5740.7
10°	6473.4	6446.9	6362.5	6205.9	6039.6	5825.1	5625.1	5482.9	5364.8	5316.6	5287.7
12.5°	6755.4	6716.8	6574.6	6314.3	6022.7	5627.5	5193.7	4776.7	4388.7	4229.6	4150.1
15°	7080.7	7025.3	6801.2	6405.9	5923.9	5181.6	4239.3	3509.0	2971.6	2769.1	2682.4
17.5°	7410.9	7338.6	6998.8	6463.8	5627.5	4258.6	2974.0	2246.2	1887.1	1790.7	1756.9
20°	7743.5	7637.5	7169.9	6420.4	4957.5	3070.4	1961.8	1641.2	1537.6	1508.7	1499.1
22.5°	8059.2	7895.3	7324.1	6251.7	3926.0	2060.6	1552.1	1450.9	1417.1	1400.2	1395.4
25°	8334.0	8105.0	7459.1	5731.1	2778.8	1556.9	1397.8	1364.1	1320.7	1289.4	1291.8
27.5°	8591.8	8314.7	7541.1	4873.1	1853.3	1330.3	1294.2	1248.4	1168.9	1123.1	1123.1
30°	8902.7	8594.2	7601.3	3750.0	1364.1	1176.1	1147.2	1077.3	968.8	908.6	908.6
32.5°	9370.3	9018.4	7562.7	2631.8	1130.3	1033.9	966.4	870.0	751.9	694.1	691.7
35°	10086.1	9673.9	7288.0	1725.6	997.8	898.9	790.5	672.4	568.8	520.6	518.2
37.5°	11050.1	10551.2	6671.0	1233.9	894.1	773.6	643.5	513.3	436.2	404.9	402.5
40°	12300.9	11570.7	5788.9	1000.2	797.7	653.1	496.5	397.7	344.6	320.5	322.9
42.5°	13802.4	12662.4	4730.9	862.8	703.7	537.4	388.0	313.3	279.6	262.7	257.9
45°	15470.1	13739.7	3622.3	768.8	609.7	433.8	303.7	248.2	221.7	212.1	212.1
47.5°	17304.2	14788.1	2651.1	686.9	508.5	335.0	243.4	202.4	180.8	173.5	171.1
50°	18969.5	15515.9	1911.2	600.1	416.9	265.1	197.6	168.7	154.2	144.6	144.6
52.5°	20357.7	15744.9	1407.5	506.1	337.4	212.1	163.9	144.6	130.1	122.9	122.9
55°	21579.6	15650.9	1046.0	416.9	272.3	173.5	139.8	122.9	110.9	103.6	103.6
57.5°	22750.9	15347.2	780.9	339.8	219.3	139.8	118.1	103.6	91.6	86.8	86.8
60°	23707.7	14841.1	580.8	274.7	175.9	113.3	98.8	84.4	74.7	67.5	67.5
62.5°	24483.7	14282.0	426.6	226.5	139.8	89.2	77.1	69.9	55.4	48.2	48.2
65°	24488.5	13354.1	320.5	188.0	108.5	69.9	57.8	55.4	36.2	28.9	26.5
67.5°	22717.2	11512.8	245.8	161.5	84.4	53.0	43.4	45.8	19.3	12.1	9.6
68°	22073.7	11045.3	231.4	159.1	79.5	50.6	41.0	45.8	16.9	9.6	7.2
70°	18610.4	8787.1	185.6	154.2	69.9	38.6	33.7	45.8	14.5	7.2	4.8
72.5°	11903.2	5099.7	137.4	122.9	53.0	28.9	21.7	41.0	14.5	4.8	2.4
75°	5065.9	1581.0	94.0	86.8	31.3	21.7	14.5	26.5	9.6	2.4	0.0
77.5°	1067.7	356.7	55.4	53.0	21.7	14.5	9.6	7.2	2.4	0.0	0.0
80°	274.7	103.6	28.9	26.5	12.1	7.2	4.8	0.0	0.0	0.0	0.0
82.5°	86.8	41.0	16.9	12.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.4	24.1	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.1	7.2	2.4	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)