

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: P321304

Luminaire Tested: **GAN-SA0D-740-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321304  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0D-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 61990 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

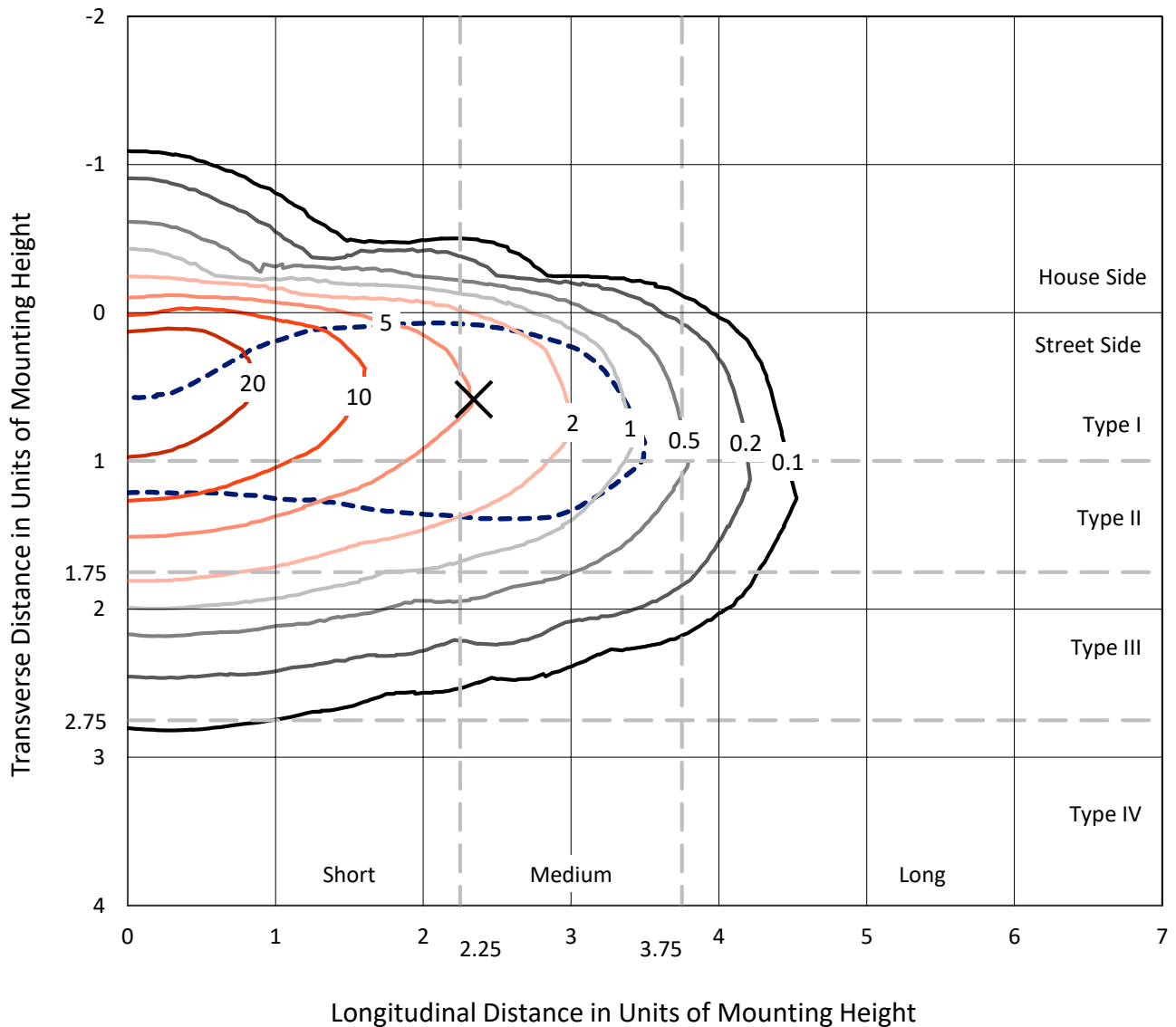
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

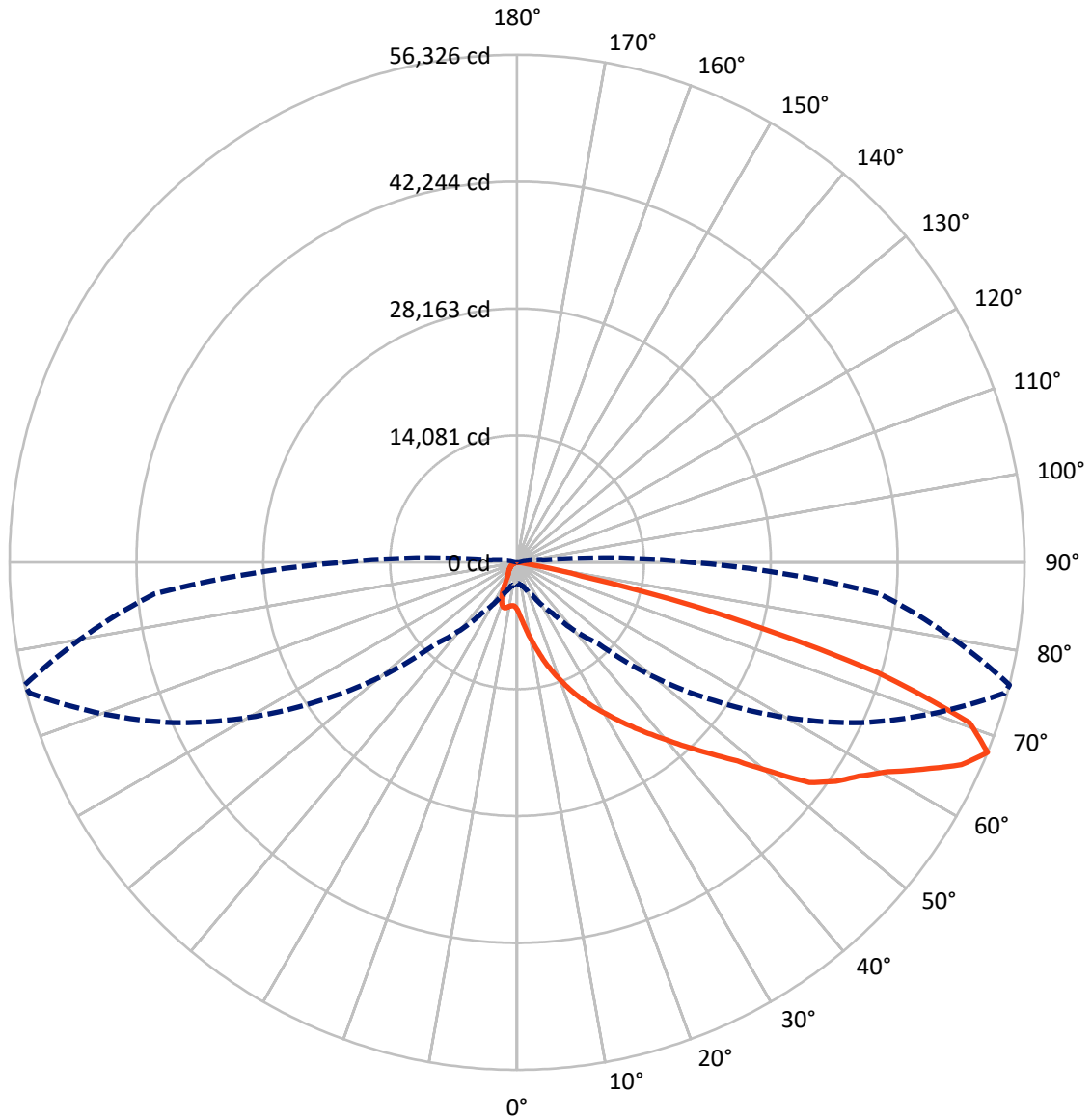
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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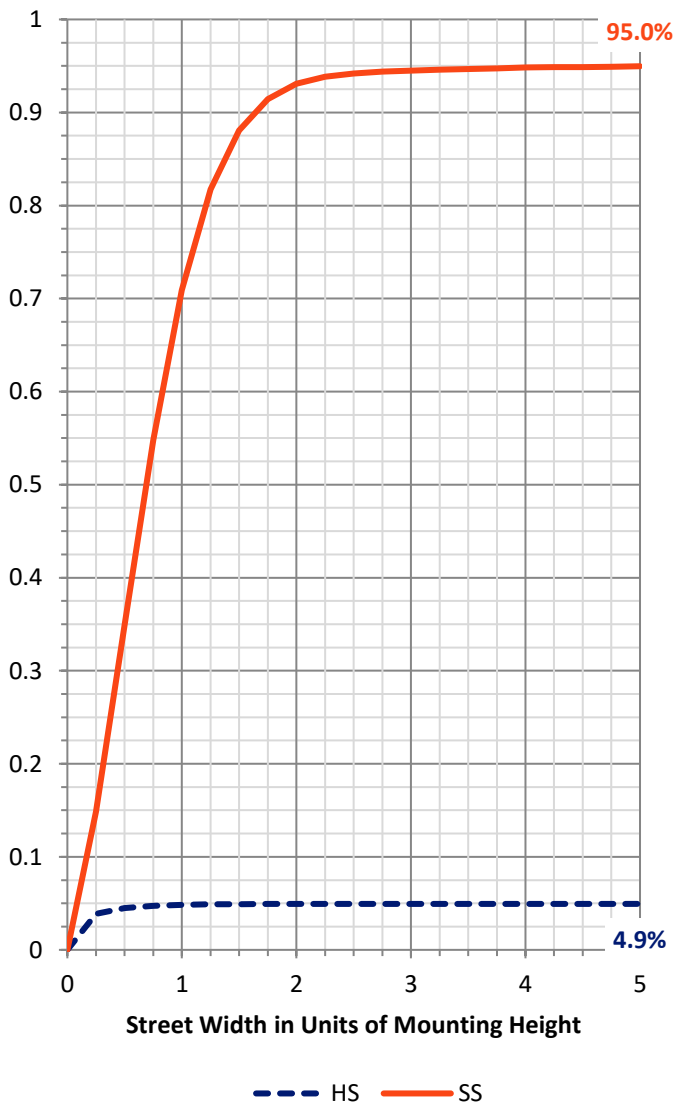
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3078.3	0.0	3078.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	58911.7	0.0	58911.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	61990.0	0.0	61990.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	653.9	1.1
10°-20°	2592.1	4.2
20°-30°	5274.1	8.5
30°-40°	9154.1	14.8
40°-50°	12933.6	20.9
50°-60°	14667.4	23.7
60°-70°	12165.2	19.6
70°-80°	4406.6	7.1
80°-90°	142.9	0.2
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°	61990.0	100.0
0°-180°	61990.0	100.0

**Coefficient of Utilization**

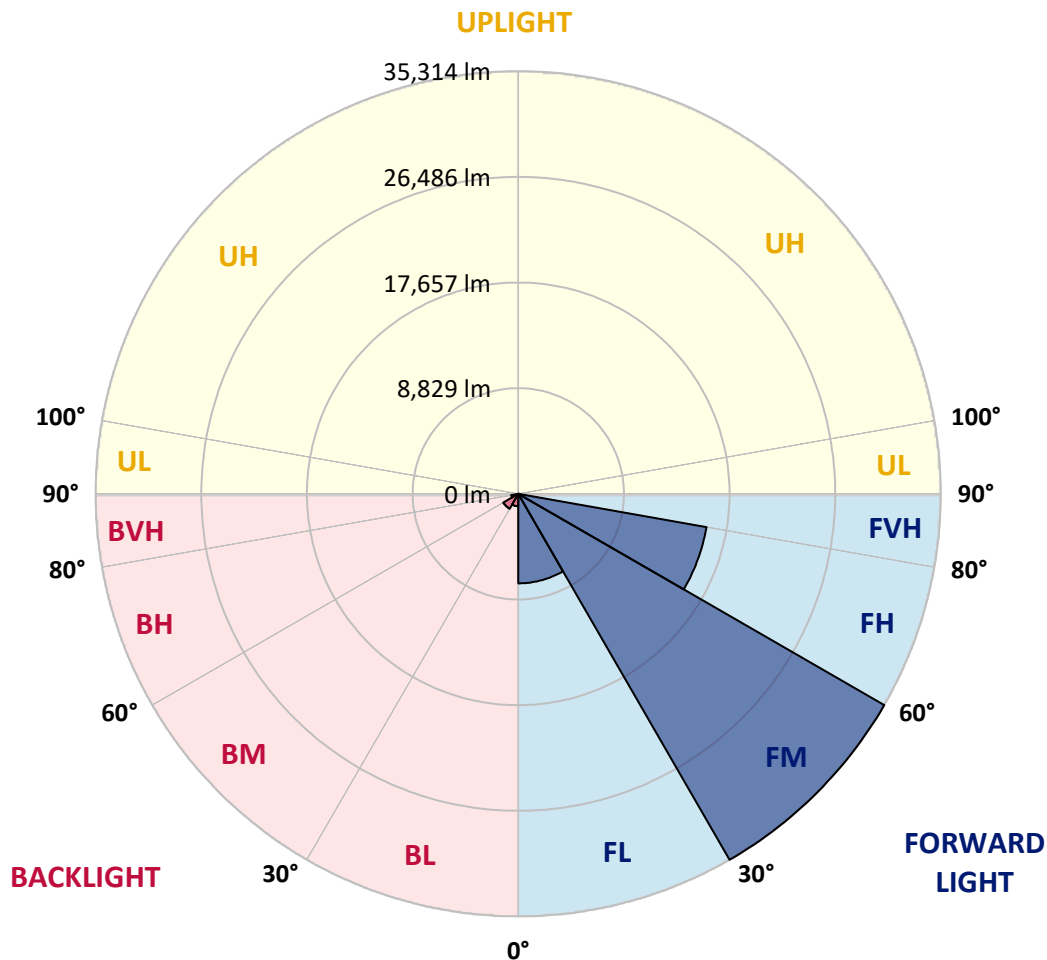


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7482.0	12.1			
FM (30°-60°)	35314.5	57.0			
FH (60°-80°)	15976.9	25.8			G5
FVH (80°-90°)	138.4	0.2			G2/225
BL (0°-30°)	1038.1	1.7	B3/2500		
BM (30°-60°)	1440.7	2.3	B2/2500		
BH (60°-80°)	594.9	1.0	B2/1000		G2/1000
BVH (80°-90°)	4.5	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5
2.5°	7849.8	7673.2	7714.0	7599.9	7393.5	6969.7	6608.5	6266.3	5867.0	5853.4	5524.7
5°	10585.0	10435.6	10416.6	10185.7	9810.9	9091.1	8390.3	7591.8	6700.8	6635.7	5937.6
7.5°	13067.6	12948.1	12904.6	12630.3	11932.2	11231.5	10318.8	9145.4	7752.0	7632.5	6494.4
10°	14974.4	14917.3	14928.2	14732.6	14135.1	13483.2	12285.3	10788.7	8944.4	8759.7	7162.6
12.5°	16419.4	16433.0	16530.7	16411.2	16077.1	15593.7	14314.3	12540.7	10264.5	10011.9	7925.8
15°	17481.4	17549.3	17728.6	17878.0	17853.5	17435.2	16261.8	14319.8	11666.0	11386.3	8776.0
17.5°	18168.6	18244.7	18505.4	18836.8	19141.0	19043.2	18141.4	16036.4	13083.9	12760.7	9685.9
20°	18771.6	18861.2	19141.0	19578.3	20146.0	20268.2	19676.1	17701.4	14499.0	14105.2	10625.7
22.5°	20078.1	20075.4	20246.5	20501.8	21042.3	21357.4	20982.6	19246.9	15897.9	15487.7	11584.6
25°	22441.2	22351.5	22291.8	22090.8	22210.3	22405.9	22196.7	20691.9	17304.9	16889.3	12557.0
27.5°	25249.7	25304.0	24820.6	24280.0	23861.7	23660.7	23318.5	22031.0	18657.5	18201.2	13507.6
30°	28213.1	28229.4	27659.0	26969.1	26048.3	25285.0	24692.9	23310.4	20048.2	19551.1	14431.1
32.5°	30885.8	30779.9	30214.9	29275.1	28112.6	27254.3	26023.8	24739.1	21520.4	21039.6	15457.8
35°	33004.4	32879.5	32192.3	31336.7	30130.7	29267.0	27786.6	26165.1	23068.6	22598.7	16487.3
37.5°	34552.7	34406.0	33699.8	32819.7	31779.4	31276.9	29831.9	27716.0	24758.1	24252.9	17571.0
40°	35090.5	34962.8	34520.1	33876.3	33039.8	32925.7	32002.2	29500.6	26597.0	26059.1	18798.8
42.5°	34770.0	34645.0	34487.5	34270.2	33922.5	34031.2	34050.2	31535.0	28639.5	28109.9	20154.1
45°	33498.8	33387.4	33550.4	33868.2	34300.1	34837.9	35918.9	33721.5	30921.1	30356.2	21721.4
47.5°	31627.3	31545.9	31996.7	32789.9	34052.9	35535.9	37627.4	36019.4	33482.5	32958.3	23677.0
50°	28965.5	28951.9	29853.7	31301.4	33243.5	35872.7	39392.9	38632.4	37040.7	36489.3	26396.0
52.5°	24820.6	24847.7	26621.4	28938.3	31822.9	35644.6	40528.3	41989.6	41180.2	40607.1	28750.9
55°	20873.9	21036.9	22294.5	25635.4	29644.5	34797.1	40919.4	43556.9	43464.5	42921.3	30060.1
57.5°	17008.8	17304.9	18516.3	21637.2	26463.9	32844.2	40704.9	44235.9	45164.8	44749.3	31787.6
60°	12820.4	12956.2	14352.4	17269.5	22381.4	29280.5	39148.5	44605.3	47489.9	47202.0	34294.6
62.5°	8156.7	8496.2	9734.8	12548.8	17427.1	24331.6	36524.6	44599.9	50398.9	50556.5	37529.6
65°	4297.0	4693.6	5350.9	7776.5	11975.7	18804.2	32578.0	44181.6	53968.0	54188.0	40058.4
67.5°	2316.9	2431.0	2778.7	4036.3	6945.3	12738.9	26778.9	42117.3	56035.0	56325.7	40411.5
70°	1694.9	1757.4	1887.8	2232.7	3495.7	7398.9	19540.3	37437.3	53370.5	53261.8	35905.3
72.5°	1301.1	1398.8	1496.6	1635.1	2010.0	3949.3	12165.8	29315.9	42584.5	41867.4	26838.7
75°	1026.7	1043.0	1181.5	1306.5	1507.5	2249.0	5402.5	17074.0	25991.2	24293.6	13917.8
77.5°	820.3	831.2	912.6	1021.3	1211.4	1477.6	1673.2	6717.1	8298.0	7404.3	3020.4
80°	486.2	513.4	679.0	787.7	1005.0	931.7	611.1	1458.6	1295.6	1173.4	507.9
82.5°	271.6	293.3	383.0	622.0	700.8	445.5	304.2	393.8	304.2	296.1	144.0
85°	0.0	13.6	247.2	385.7	285.2	97.8	127.7	130.4	89.6	84.2	57.0
87.5°	0.0	0.0	76.1	73.3	10.9	16.3	29.9	43.5	35.3	35.3	29.9
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°	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5	5258.5
2.5°	5361.8	5215.1	4938.0	4666.4	4438.3	4250.8	4082.4	4014.5	3960.2	3952.1	3908.6
5°	5600.8	5304.7	4775.1	4340.5	4049.8	3843.4	3666.9	3558.2	3474.0	3441.4	3411.5
7.5°	5962.0	5513.9	4753.3	4253.6	3905.9	3558.2	3232.3	2879.2	2659.2	2574.9	2526.1
10°	6402.1	5790.9	4834.8	4229.1	3620.7	2887.3	2346.8	1898.6	1716.6	1656.9	1640.6
12.5°	6915.4	6135.9	4976.1	4077.0	3012.3	2050.7	1618.9	1466.7	1426.0	1407.0	1407.0
15°	7504.8	6513.4	5076.6	3637.0	2227.3	1550.9	1401.6	1330.9	1287.5	1263.0	1265.7
17.5°	8107.8	6882.8	5027.7	2998.7	1643.3	1379.8	1268.5	1192.4	1132.7	1108.2	1102.8
20°	8716.3	7225.1	4756.1	2232.7	1390.7	1252.2	1127.2	1043.0	983.3	958.8	953.4
22.5°	9346.4	7515.7	4278.0	1637.9	1249.4	1110.9	988.7	904.5	847.5	825.7	814.9
25°	9960.3	7752.0	3609.8	1325.5	1116.4	977.8	861.0	782.3	730.7	708.9	706.2
27.5°	10533.4	7901.4	2835.7	1170.7	999.6	858.3	752.4	681.8	638.3	622.0	619.3
30°	11049.5	7915.0	2096.9	1056.6	896.3	755.1	657.3	594.8	556.8	540.5	535.1
32.5°	11571.0	7800.9	1526.5	953.4	801.3	665.5	570.4	521.5	494.3	480.8	480.8
35°	12062.6	7537.4	1189.7	863.7	708.9	578.5	502.5	467.2	450.9	437.3	437.3
37.5°	12543.4	7159.9	1010.4	785.0	622.0	505.2	442.7	421.0	407.4	393.8	393.8
40°	13032.3	6684.5	918.1	711.6	551.4	448.2	393.8	374.8	361.3	350.4	347.7
42.5°	13632.6	6135.9	858.3	643.7	488.9	396.6	347.7	325.9	315.1	304.2	298.8
45°	14327.9	5663.3	809.4	575.8	437.3	353.1	301.5	279.8	263.5	249.9	247.2
47.5°	15330.2	5321.0	744.2	502.5	388.4	306.9	260.8	236.3	211.9	198.3	195.6
50°	16609.5	5038.5	660.0	437.3	339.5	260.8	217.3	187.4	165.7	152.1	152.1
52.5°	17245.1	4669.1	584.0	380.3	285.2	220.0	176.6	141.2	130.4	116.8	116.8
55°	17500.4	4386.6	507.9	323.2	236.3	182.0	138.5	108.6	100.5	92.4	89.6
57.5°	18217.5	4305.2	442.7	274.3	195.6	144.0	105.9	81.5	76.1	65.2	65.2
60°	19371.9	4345.9	383.0	233.6	157.5	111.4	78.8	62.5	57.0	46.2	46.2
62.5°	20618.6	4294.3	323.2	201.0	122.2	81.5	54.3	46.2	46.2	27.2	24.4
65°	20857.6	3824.4	277.1	165.7	95.1	59.8	35.3	29.9	40.7	5.4	0.0
67.5°	19358.3	2966.1	239.0	127.7	70.6	46.2	27.2	13.6	35.3	0.0	0.0
70°	15479.6	1885.0	192.8	92.4	54.3	38.0	21.7	5.4	27.2	0.0	0.0
72.5°	10946.3	1094.6	152.1	65.2	46.2	29.9	16.3	0.0	16.3	0.0	0.0
75°	5535.6	584.0	95.1	48.9	35.3	21.7	10.9	0.0	2.7	0.0	0.0
77.5°	1197.8	271.6	59.8	35.3	24.4	13.6	5.4	0.0	0.0	0.0	0.0
80°	260.8	119.5	38.0	21.7	13.6	8.1	0.0	0.0	0.0	0.0	0.0
82.5°	95.1	62.5	19.0	10.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.6	32.6	10.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.2	10.9	2.7	2.7	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)