

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: P319979

Luminaire Tested: **GAN-SA5D-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33559 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

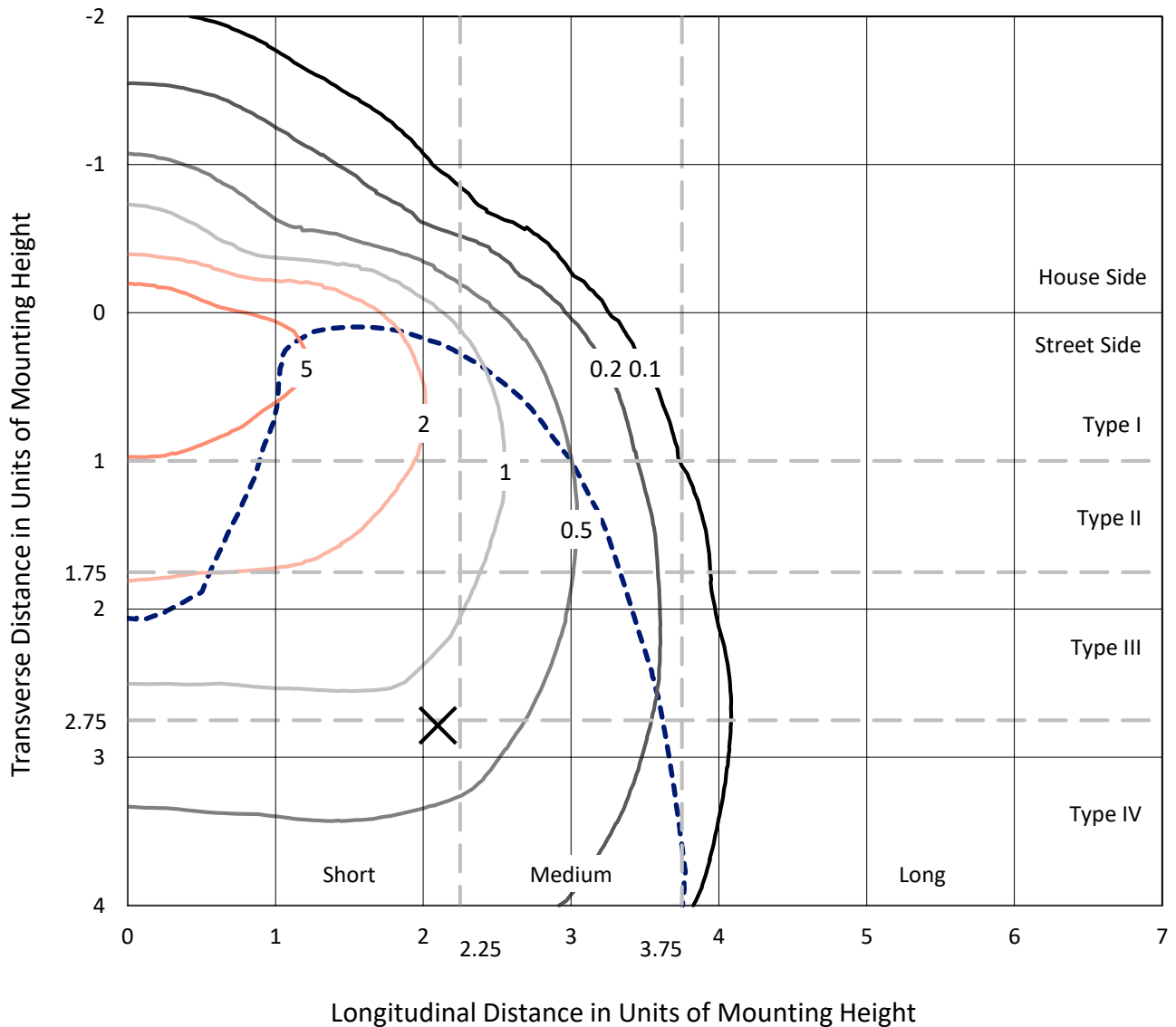
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

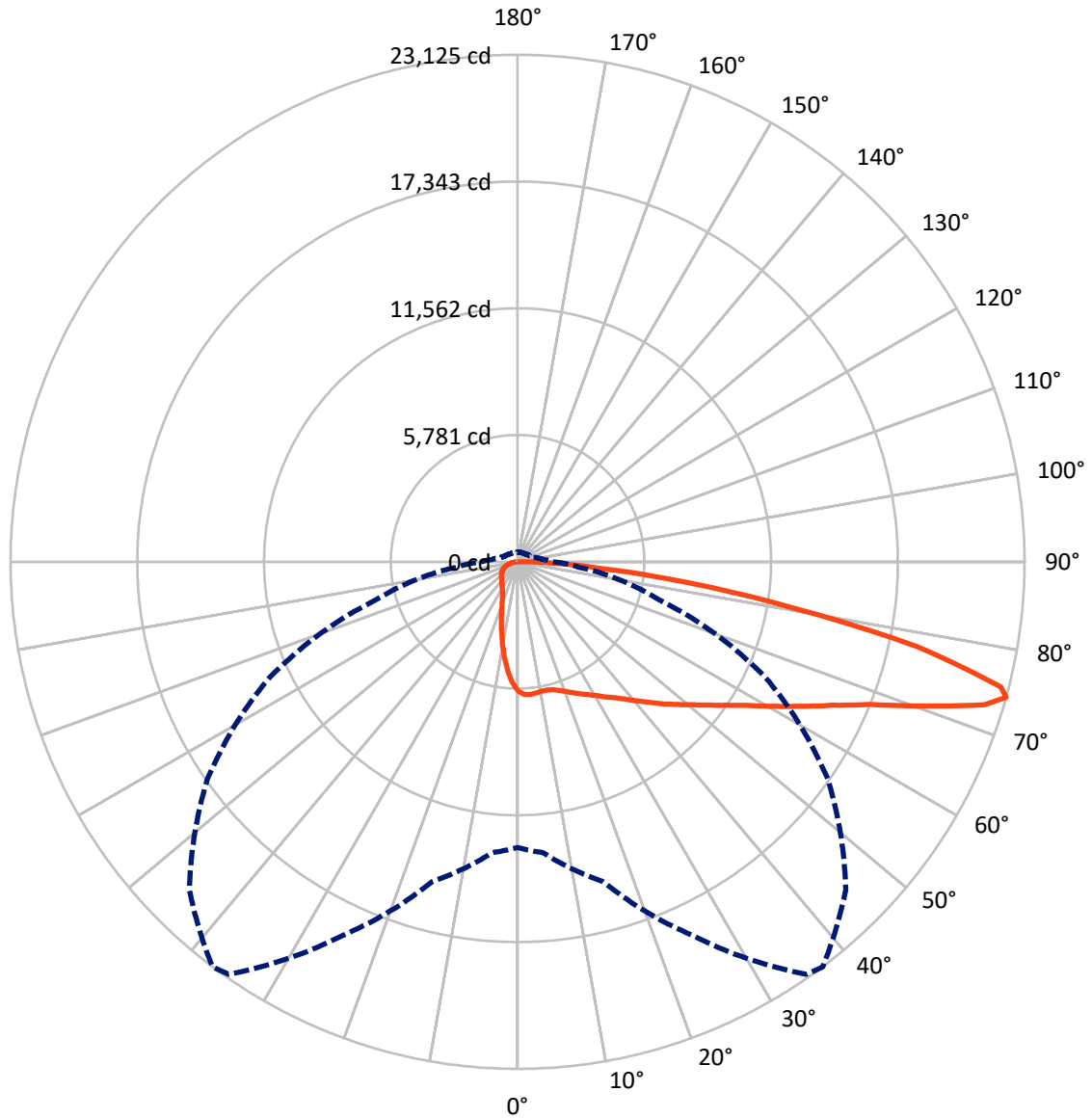
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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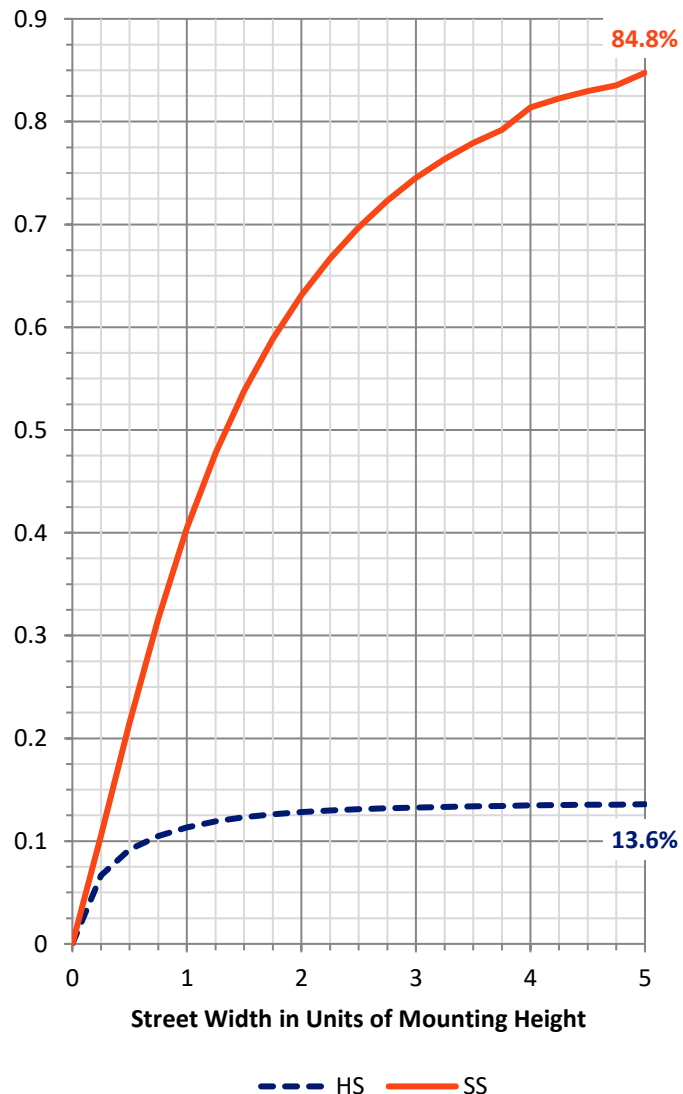
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4617.5	0.0	4617.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	28941.5	0.0	28941.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	33559.0	0.0	33559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.7	1.6
10°-20°	1334.7	4.0
20°-30°	2056.5	6.1
30°-40°	2990.5	8.9
40°-50°	4401.5	13.1
50°-60°	6181.0	18.4
60°-70°	7823.3	23.3
70°-80°	6888.7	20.5
80°-90°	1362.0	4.1
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°	33559.0	100.0
0°-180°	33559.0	100.0

Coefficient of Utilization

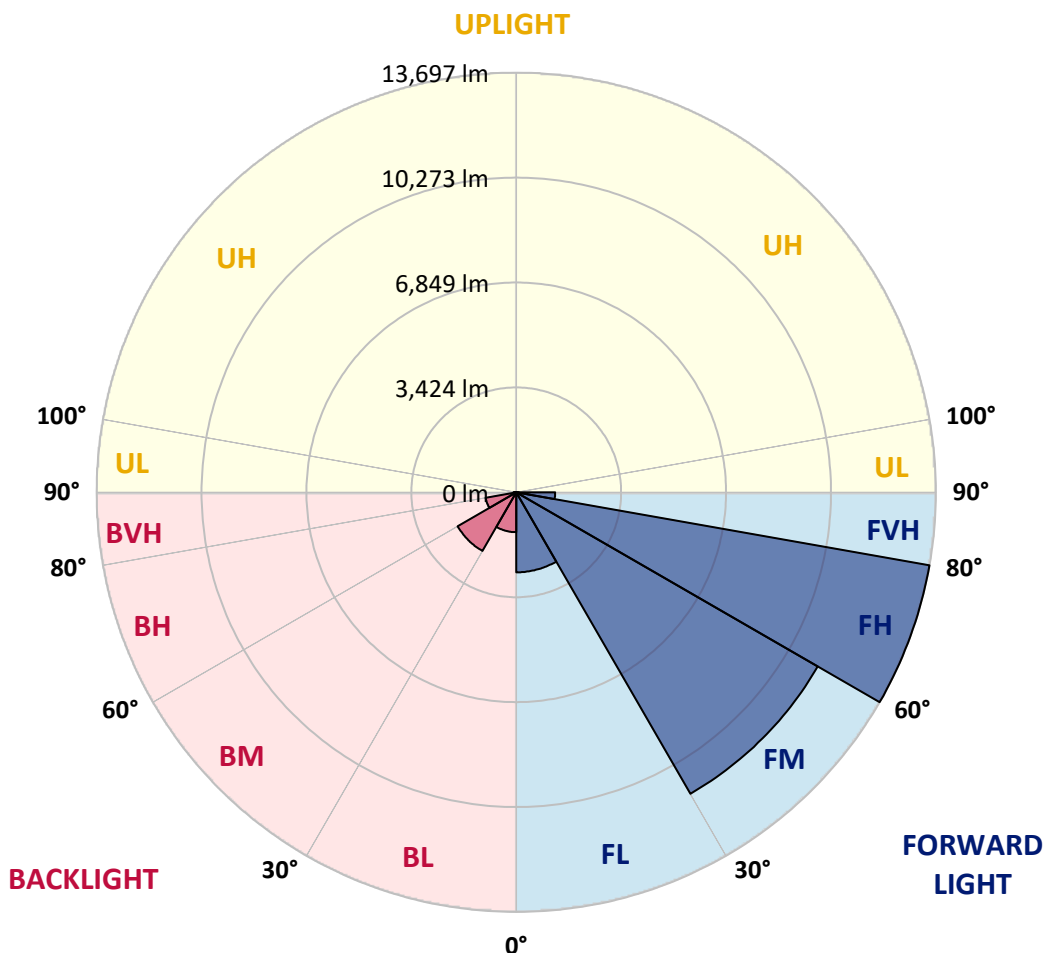


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2611.3	7.8			
FM (30°-60°)	11363.3	33.9			
FH (60°-80°)	13697.1	40.8			G5
FVH (80°-90°)	1269.8	3.8			G5
BL (0°-30°)	1300.6	3.9	B3/2500		
BM (30°-60°)	2209.6	6.6	B2/2500		
BH (60°-80°)	1015.0	3.0	B3/2500		G3/2500
BVH (80°-90°)	92.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0
2.5°	6115.1	6116.3	6115.1	6105.7	6083.2	6064.3	6048.9	6026.4	5976.8	5939.0	5882.2
5°	6173.0	6165.9	6161.2	6143.5	6108.0	6086.7	6057.2	6014.6	5933.1	5857.4	5765.2
7.5°	6145.8	6137.6	6126.9	6105.7	6065.5	6047.7	6006.4	5950.8	5852.7	5753.4	5621.0
10°	6061.9	6059.5	6054.8	6050.1	6015.8	6001.6	5963.8	5904.7	5807.8	5687.2	5532.3
12.5°	5968.5	5974.4	5993.3	6018.2	6002.8	5995.7	5972.1	5931.9	5832.6	5702.5	5515.8
15°	5909.4	5926.0	5976.8	6041.8	6054.8	6052.5	6046.5	6020.5	5915.3	5771.1	5553.6
17.5°	5889.3	5916.5	6013.4	6121.0	6158.8	6167.1	6169.5	6124.6	6007.5	5855.0	5592.6
20°	5926.0	5960.3	6102.1	6249.9	6310.2	6314.9	6304.2	6226.2	6095.0	5927.2	5613.9
22.5°	6037.1	6067.8	6245.1	6411.8	6480.4	6487.5	6455.6	6337.3	6187.2	6012.3	5643.4
25°	6251.1	6288.9	6466.2	6632.9	6668.3	6669.5	6623.4	6476.8	6307.8	6131.7	5707.3
27.5°	6530.0	6567.9	6727.4	6890.6	6871.7	6861.0	6798.4	6651.8	6465.0	6296.0	5820.8
30°	6840.9	6882.3	7033.6	7149.5	7104.5	7083.3	7032.4	6843.3	6683.7	6520.6	5994.5
32.5°	7162.5	7200.3	7332.7	7411.9	7355.2	7345.7	7268.9	7096.3	6968.6	6863.4	6275.9
35°	7492.3	7519.5	7649.5	7694.4	7618.8	7616.4	7595.1	7436.7	7356.3	7406.0	6684.9
37.5°	7829.2	7836.3	7947.4	7949.8	7927.3	7936.8	7959.2	7859.9	7882.4	8037.2	7216.8
40°	8129.4	8148.4	8228.7	8253.6	8292.6	8325.7	8438.0	8373.0	8546.7	8821.0	7878.8
42.5°	8351.7	8388.3	8517.2	8581.0	8707.5	8759.5	8917.9	8978.2	9328.1	9739.5	8666.1
45°	8539.6	8596.4	8803.2	8934.5	9148.4	9239.5	9466.4	9668.6	10211.2	10736.0	9494.8
47.5°	8743.0	8815.1	9074.0	9324.6	9615.4	9718.2	10130.8	10433.4	11153.3	11738.5	10276.2
50°	9042.0	9097.6	9350.6	9744.2	10107.1	10239.5	10810.5	11244.3	12110.8	12693.6	10953.5
52.5°	9459.3	9438.0	9652.0	10204.1	10691.1	10854.2	11536.3	12107.3	13081.3	13557.7	11525.7
55°	9879.0	9843.5	9993.6	10685.2	11372.0	11543.4	12335.4	12973.8	14004.6	14335.6	11964.2
57.5°	10345.9	10278.5	10405.0	11227.8	12147.5	12352.0	13230.3	13894.6	14912.4	14964.5	12243.2
60°	10827.0	10736.0	10877.9	11900.4	13132.2	13373.3	14277.6	14793.1	15768.3	15468.0	12333.1
62.5°	11247.9	11184.0	11402.7	12651.1	14242.2	14507.0	15306.1	15748.2	16612.3	15677.3	12009.2
65°	11615.5	11626.2	12004.4	13495.1	15479.9	15762.4	16485.8	16925.6	17276.7	15553.2	11251.4
67.5°	12054.1	12114.4	12759.8	14606.3	17037.9	17347.6	18202.3	18209.4	17647.9	14825.0	9759.6
70°	12693.6	12817.7	13798.9	16147.8	19253.2	19678.8	20338.4	18963.6	17126.6	12850.8	7679.1
72.5°	13261.0	13492.7	14904.2	17911.5	21953.2	22275.9	21587.9	18528.6	14947.9	9630.7	4784.0
74°	13030.5	13317.8	15105.1	18780.3	22969.8	23124.6	21165.9	17259.0	12463.1	6669.5	2780.3
75°	12534.0	12846.1	14812.0	18772.1	22840.9	22754.6	20146.9	15808.5	10264.4	4548.8	1850.0
77.5°	10115.4	10445.2	12480.8	16088.7	18728.3	18646.8	15476.3	10604.8	4495.6	1491.8	939.8
80°	5881.0	6132.8	7747.6	10217.1	12628.6	12776.4	10178.1	5247.4	1768.5	838.1	637.2
82.5°	2612.5	2786.3	3742.6	5215.5	7621.1	7811.5	5330.2	2749.6	1092.3	509.5	383.0
85°	1714.1	1842.9	2272.0	2483.6	3629.1	3759.1	2608.9	2140.8	721.1	280.2	281.3
87.5°	1233.0	1357.1	1688.1	1474.1	1665.6	1576.9	1419.7	1981.2	289.6	159.6	94.6
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°	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0
2.5°	5857.4	5838.5	5795.9	5715.6	5670.6	5632.8	5570.2	5533.5	5517.0	5515.8	5522.9
5°	5712.0	5668.3	5558.3	5423.6	5316.0	5217.9	5096.1	5022.8	4970.8	4940.1	4948.4
7.5°	5543.0	5474.4	5301.8	5086.7	4914.1	4723.8	4535.8	4423.5	4336.0	4271.0	4282.8
10°	5427.1	5332.5	5080.8	4771.0	4483.8	4207.2	3948.3	3793.4	3670.5	3575.9	3583.0
12.5°	5388.1	5260.4	4911.7	4498.0	4094.9	3716.6	3378.5	3140.9	3014.4	2906.8	2915.1
15°	5394.0	5222.6	4769.9	4252.1	3745.0	3268.6	2858.4	2580.6	2409.2	2334.7	2335.9
17.5°	5398.7	5178.9	4620.9	3988.5	3398.6	2850.1	2404.4	2123.1	1961.1	1892.6	1893.8
20°	5383.4	5107.9	4436.5	3685.9	3036.9	2465.9	2034.4	1795.6	1672.7	1619.5	1619.5
22.5°	5363.3	5024.0	4228.4	3382.0	2679.9	2132.5	1769.6	1587.6	1516.7	1481.2	1480.0
25°	5372.7	4961.4	4015.7	3070.0	2351.2	1866.6	1593.5	1472.9	1425.6	1403.2	1402.0
27.5°	5423.6	4931.8	3819.4	2759.1	2064.0	1666.8	1475.3	1390.2	1359.4	1345.3	1345.3
30°	5515.8	4931.8	3614.9	2494.3	1825.2	1519.0	1384.3	1326.3	1305.1	1295.6	1295.6
32.5°	5676.5	4959.0	3417.5	2231.8	1634.9	1403.2	1308.6	1269.6	1253.0	1248.3	1248.3
35°	5953.2	5051.2	3224.8	1983.6	1481.2	1308.6	1236.5	1214.0	1202.2	1201.0	1204.6
37.5°	6342.1	5239.2	3044.0	1800.4	1372.4	1231.8	1176.2	1158.5	1151.4	1157.3	1162.0
40°	6831.5	5494.5	2879.6	1634.9	1289.7	1170.3	1120.7	1108.8	1105.3	1113.6	1120.7
42.5°	7422.5	5839.7	2744.9	1515.5	1225.9	1118.3	1073.4	1059.2	1055.6	1065.1	1074.5
45°	8062.1	6210.9	2650.3	1426.8	1176.2	1079.3	1032.0	1016.6	1009.5	1014.3	1024.9
47.5°	8643.7	6561.9	2612.5	1364.2	1128.9	1046.2	995.3	976.4	964.6	962.2	970.5
50°	9134.2	6823.2	2630.2	1326.3	1091.1	1009.5	959.9	938.6	920.9	910.2	916.1
52.5°	9491.2	6987.5	2646.8	1309.8	1061.5	969.3	920.9	900.8	877.1	859.4	859.4
55°	9750.1	7025.3	2610.1	1296.8	1039.1	925.6	877.1	858.2	834.6	814.5	812.1
57.5°	9851.8	6919.0	2474.2	1277.9	1023.7	884.2	831.0	816.8	796.7	773.1	771.9
60°	9714.7	6590.3	2211.7	1237.7	1003.6	849.9	784.9	775.5	766.0	743.6	742.4
62.5°	9163.8	5869.2	1872.5	1156.1	963.4	813.3	742.4	747.1	748.3	732.9	730.6
65°	8164.9	4878.6	1541.5	1049.7	903.1	769.6	698.6	721.1	734.1	731.7	728.2
67.5°	6713.3	3797.0	1306.2	937.4	823.9	709.3	651.3	677.4	688.0	696.3	693.9
70°	4982.6	2677.5	1080.5	819.2	728.2	638.3	589.9	602.9	595.8	605.2	608.8
72.5°	2778.0	1606.5	880.7	701.0	628.9	555.6	521.3	519.0	503.6	503.6	503.6
74°	1666.8	1178.6	774.3	627.7	568.6	501.2	471.7	461.0	446.8	448.0	446.8
75°	1340.5	1013.1	710.5	579.2	526.0	469.3	439.7	425.6	414.9	414.9	413.7
77.5°	846.4	769.6	572.1	461.0	420.8	386.6	366.5	347.5	347.5	346.4	345.2
80°	639.5	612.3	445.7	348.7	322.7	296.7	283.7	275.4	275.4	279.0	277.8
82.5°	438.6	461.0	313.3	243.5	230.5	211.6	209.2	210.4	206.9	202.1	201.0
85°	320.4	346.4	211.6	153.7	140.7	128.9	138.3	143.0	137.1	126.5	121.8
87.5°	122.9	227.0	113.5	63.8	59.1	50.8	59.1	61.5	66.2	52.0	53.2
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)