

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: P319972

Luminaire Tested: **GAN-SA8C-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319972
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-SA8C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 49053 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

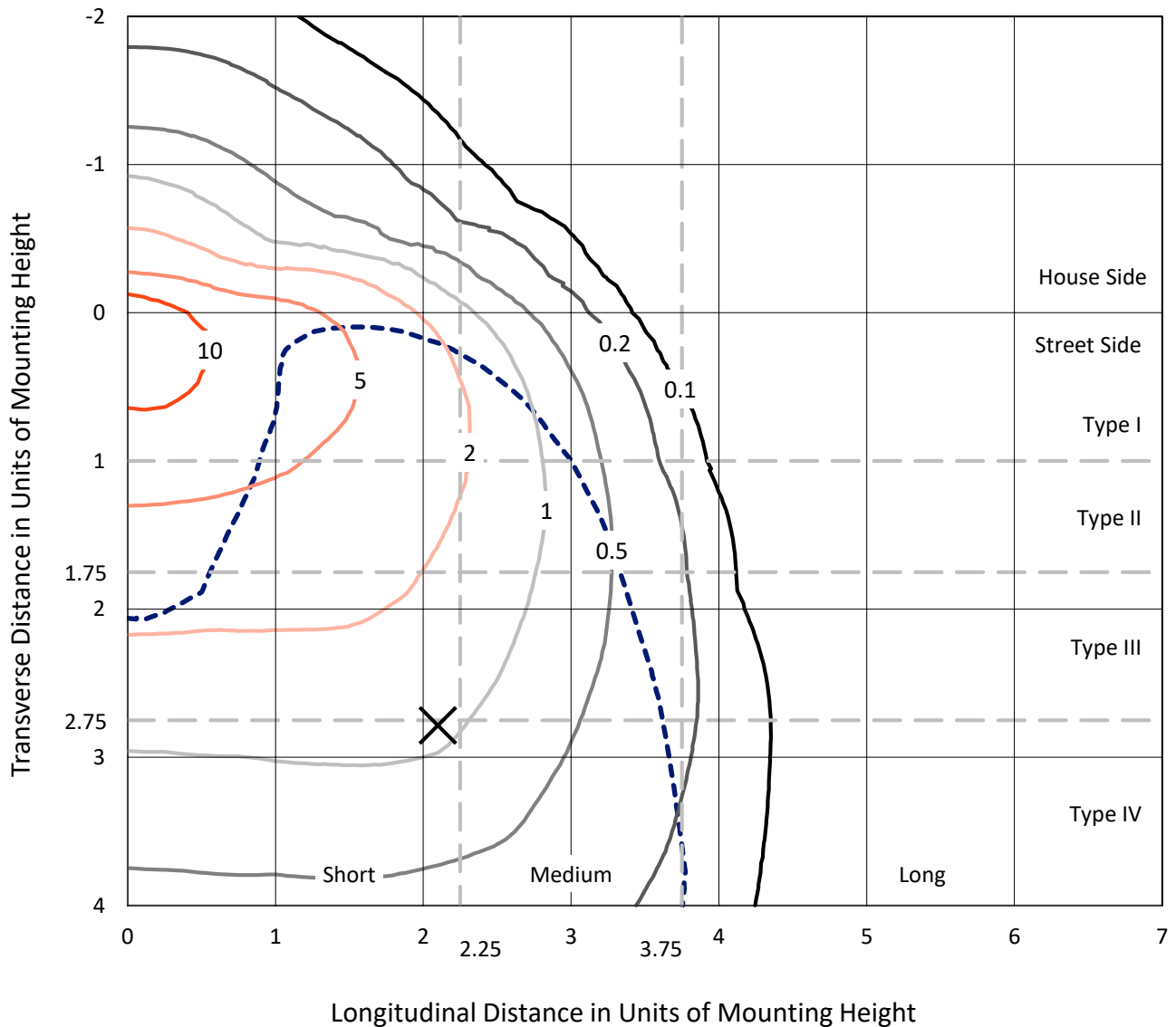
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

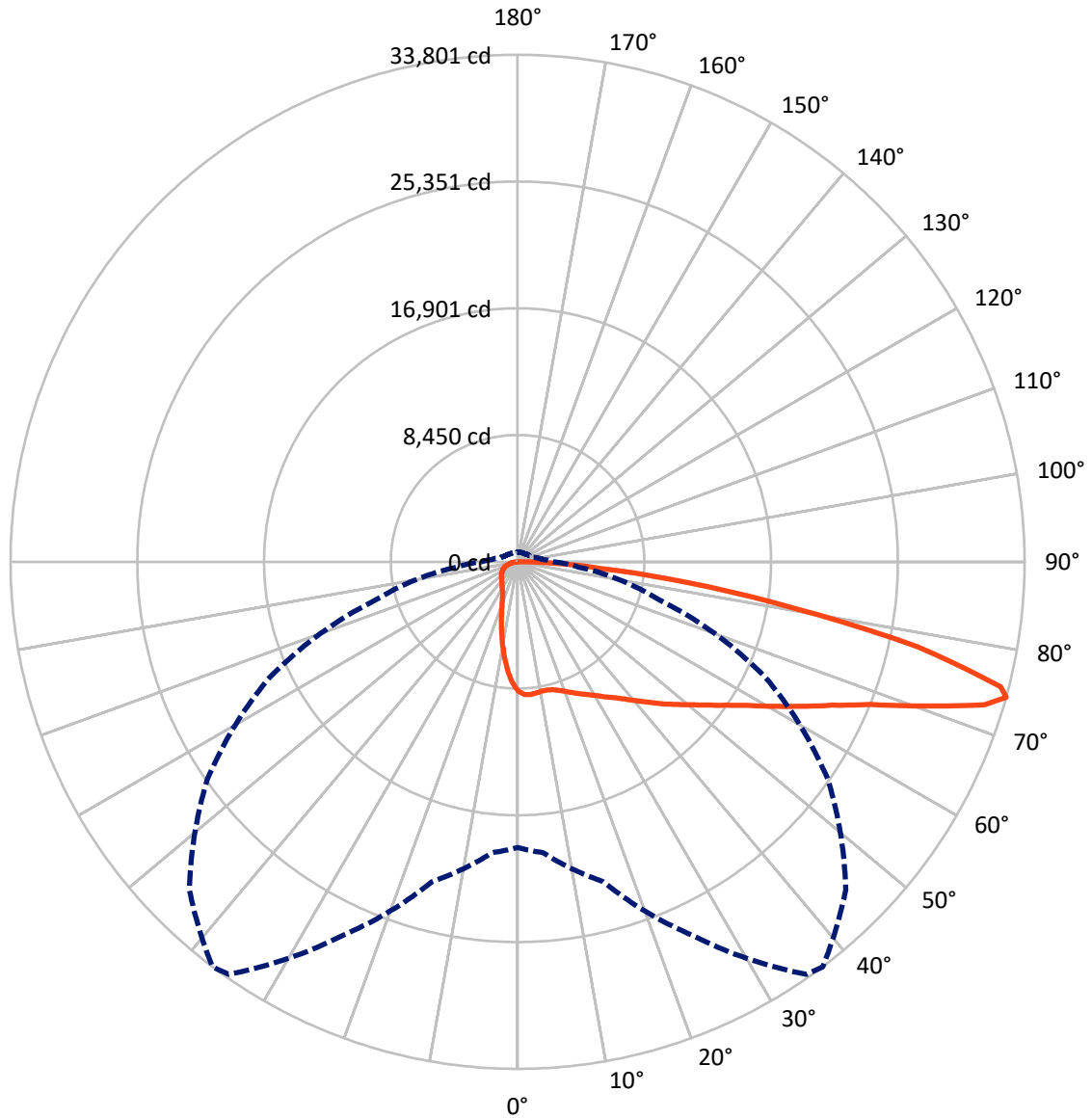
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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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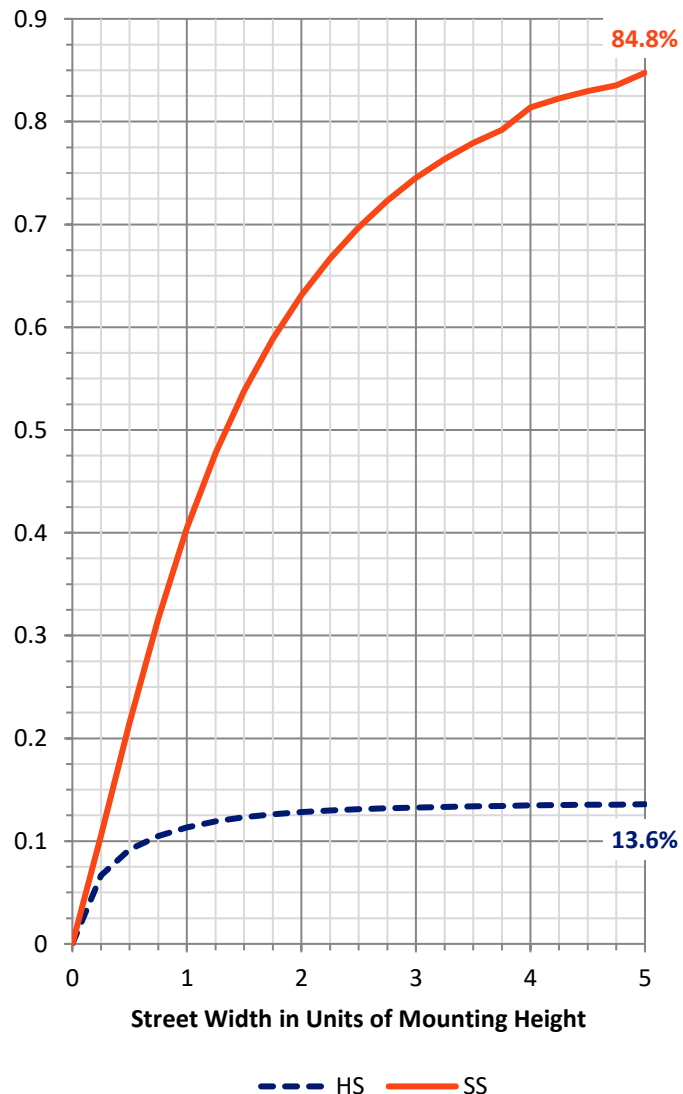
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6749.4	0.0	6749.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	42303.6	0.0	42303.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	49053.0	0.0	49053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.1	1.6
10°-20°	1950.9	4.0
20°-30°	3006.0	6.1
30°-40°	4371.2	8.9
40°-50°	6433.6	13.1
50°-60°	9034.8	18.4
60°-70°	11435.3	23.3
70°-80°	10069.2	20.5
80°-90°	1990.9	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°	49053.0	100.0
0°-180°	49053.0	100.0

Coefficient of Utilization

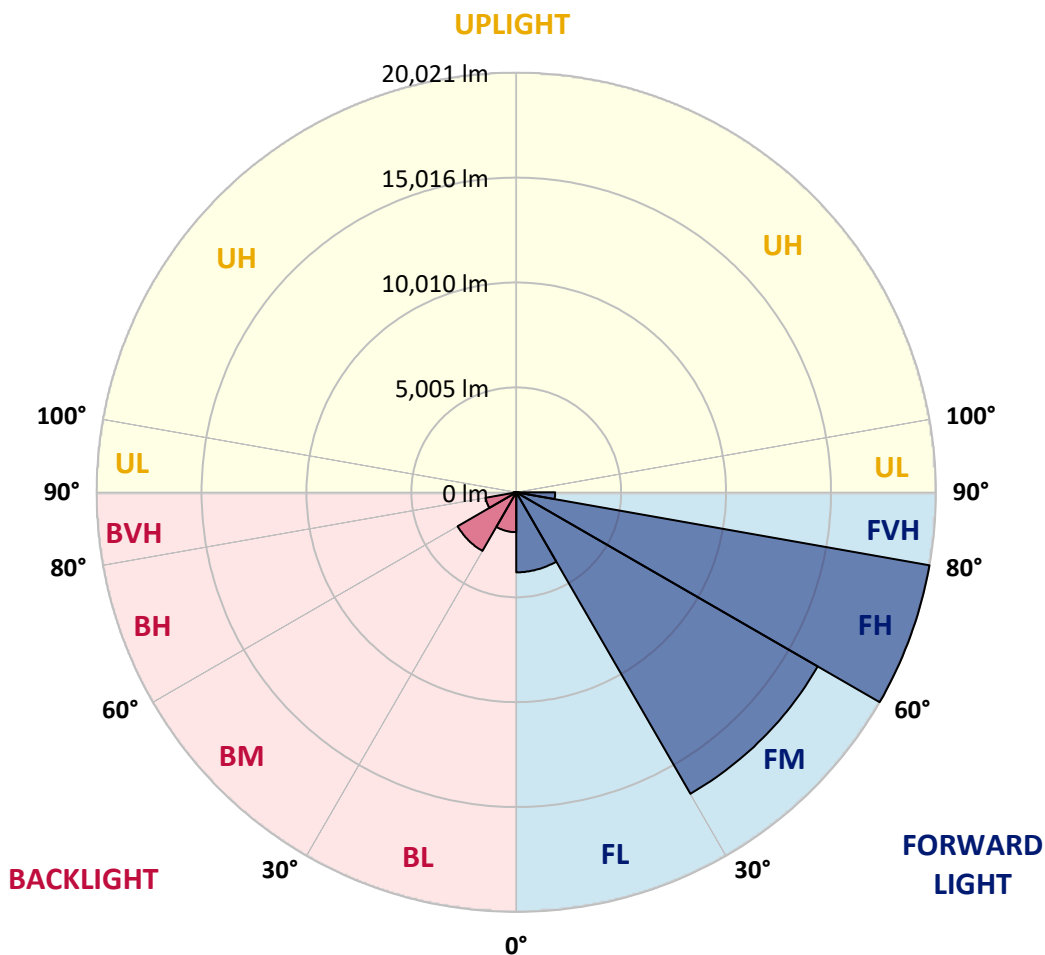


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3816.9	7.8			
FM (30°-60°)	16609.7	33.9			
FH (60°-80°)	20020.9	40.8			G5
FVH (80°-90°)	1856.1	3.8			G5
BL (0°-30°)	1901.1	3.9	B3/2500		
BM (30°-60°)	3229.8	6.6	B3/5000		
BH (60°-80°)	1483.6	3.0	B3/2500		G3/2500
BVH (80°-90°)	134.8	0.3			G2/225
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°	8642.9	8642.9	8642.9	8642.9	8642.9	8642.9	8642.9	8642.9	8642.9	8642.9	8642.9
2.5°	8938.4	8940.1	8938.4	8924.6	8891.8	8864.1	8841.7	8808.8	8736.3	8681.0	8598.0
5°	9023.1	9012.7	9005.8	8979.9	8928.1	8896.9	8853.8	8791.5	8672.3	8561.7	8427.0
7.5°	8983.3	8971.2	8955.7	8924.6	8865.8	8839.9	8779.5	8698.2	8554.8	8409.7	8216.2
10°	8860.7	8857.2	8850.3	8843.4	8793.3	8772.5	8717.2	8630.9	8489.2	8312.9	8086.6
12.5°	8724.2	8732.8	8760.4	8796.7	8774.3	8763.9	8729.3	8670.6	8525.5	8335.4	8062.4
15°	8637.8	8662.0	8736.3	8831.3	8850.3	8846.8	8838.2	8800.2	8646.4	8435.6	8117.7
17.5°	8608.4	8648.1	8789.8	8947.1	9002.4	9014.4	9017.9	8952.2	8781.2	8558.3	8174.7
20°	8662.0	8712.1	8919.4	9135.4	9223.5	9230.4	9214.9	9100.8	8909.0	8663.7	8205.8
22.5°	8824.4	8869.3	9128.5	9372.1	9472.3	9482.7	9436.1	9263.3	9043.8	8788.1	8249.0
25°	9137.1	9192.4	9451.6	9695.2	9747.1	9748.8	9681.4	9467.2	9220.1	8962.6	8342.3
27.5°	9544.9	9600.2	9833.5	10071.9	10044.3	10028.7	9937.1	9722.9	9449.9	9202.8	8508.2
30°	9999.3	10059.8	10281.0	10450.3	10384.7	10353.6	10279.3	10002.8	9769.5	9531.1	8762.2
32.5°	10469.3	10524.6	10718.2	10833.9	10751.0	10737.2	10624.8	10372.6	10186.0	10032.2	9173.4
35°	10951.4	10991.2	11181.2	11246.9	11136.3	11132.9	11101.7	10870.2	10752.7	10825.3	9771.3
37.5°	11443.9	11454.2	11616.7	11620.1	11587.3	11601.1	11633.9	11488.8	11521.6	11748.0	10548.8
40°	11882.8	11910.4	12027.9	12064.2	12121.2	12169.6	12333.7	12238.7	12492.7	12893.6	11516.4
42.5°	12207.6	12261.2	12449.5	12542.8	12727.7	12803.7	13035.3	13123.4	13634.8	14236.2	12667.2
45°	12482.3	12565.3	12867.7	13059.5	13372.2	13505.3	13837.0	14132.5	14925.6	15692.8	13878.5
47.5°	12779.5	12884.9	13263.3	13629.7	14054.7	14205.1	14808.1	15250.4	16302.7	17158.0	15020.6
50°	13216.7	13297.9	13667.7	14243.1	14773.5	14967.1	15801.6	16435.8	17702.3	18554.2	16010.7
52.5°	13826.6	13795.5	14108.3	14915.2	15627.1	15865.6	16862.6	17697.1	19120.9	19817.3	16847.0
55°	14440.0	14388.2	14607.7	15618.5	16622.4	16872.9	18030.6	18963.7	20470.4	20954.2	17488.1
57.5°	15122.6	15024.1	15209.0	16411.6	17755.9	18054.8	19338.6	20309.7	21797.4	21873.5	17895.8
60°	15825.8	15692.8	15900.1	17394.8	19195.2	19547.7	20869.6	21622.9	23048.4	22609.6	18027.2
62.5°	16441.0	16347.6	16667.3	18492.0	20817.7	21204.8	22372.8	23019.1	24282.2	22915.4	17553.7
65°	16978.3	16993.9	17546.8	19725.7	22626.8	23039.8	24097.3	24740.1	25253.2	22734.0	16446.1
67.5°	17619.4	17707.5	18650.9	21349.9	24904.2	25356.9	26606.2	26616.5	25795.8	21669.6	14265.5
70°	18554.2	18735.6	20169.8	23603.1	28142.3	28764.3	29728.5	27718.9	25033.8	18784.0	11224.4
72.5°	19383.6	19722.2	21785.3	26181.1	32088.8	32560.5	31554.9	27083.1	21849.3	14077.2	6992.8
74°	19046.6	19466.5	22079.1	27451.1	33574.8	33801.2	30938.0	25227.3	18217.2	9748.8	4064.0
75°	18320.9	18777.1	21650.6	27439.0	33386.5	33260.3	29448.6	23107.2	15003.3	6649.0	2704.2
77.5°	14785.6	15267.7	18243.2	23516.7	27375.1	27255.9	22621.6	15501.0	6571.2	2180.6	1373.7
80°	8596.3	8964.3	11324.6	14934.2	18459.1	18675.1	14877.2	7670.1	2584.9	1225.1	931.3
82.5°	3818.7	4072.7	5470.5	7623.5	11139.8	11418.0	7791.1	4019.1	1596.6	744.7	559.8
85°	2505.5	2693.8	3321.0	3630.3	5304.6	5494.7	3813.5	3129.2	1054.0	409.5	411.2
87.5°	1802.2	1983.6	2467.4	2154.7	2434.6	2305.0	2075.2	2896.0	423.3	233.3	138.2
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°	8642.9	8642.9	8642.9	8642.9	8642.9	8642.9	8642.9	8642.9	8642.9	8642.9	8642.9
2.5°	8561.7	8534.1	8471.9	8354.4	8288.7	8233.4	8141.9	8088.3	8064.1	8062.4	8072.7
5°	8349.2	8285.3	8124.6	7927.6	7770.4	7626.9	7449.0	7341.8	7265.8	7220.9	7233.0
7.5°	8102.1	8001.9	7749.6	7435.1	7182.9	6904.7	6629.9	6465.8	6337.9	6242.9	6260.2
10°	7932.8	7794.6	7426.5	6973.8	6553.9	6149.6	5771.2	5544.8	5365.1	5226.9	5237.3
12.5°	7875.8	7689.1	7179.4	6574.7	5985.4	5432.5	4938.3	4591.0	4406.1	4248.9	4261.0
15°	7884.4	7633.9	6972.1	6215.3	5474.0	4777.6	4178.1	3772.0	3521.5	3412.6	3414.3
17.5°	7891.3	7569.9	6754.4	5829.9	4967.7	4166.0	3514.5	3103.3	2866.6	2766.4	2768.1
20°	7868.8	7466.2	6484.8	5387.6	4439.0	3604.4	2973.7	2624.7	2445.0	2367.2	2367.2
22.5°	7839.5	7343.6	6180.7	4943.5	3917.1	3117.1	2586.7	2320.6	2216.9	2165.1	2163.3
25°	7853.3	7252.0	5869.7	4487.4	3436.8	2728.4	2329.2	2153.0	2083.8	2051.0	2049.3
27.5°	7927.6	7208.8	5582.8	4032.9	3016.9	2436.3	2156.4	2032.0	1987.1	1966.3	1966.3
30°	8062.4	7208.8	5283.9	3645.9	2667.9	2220.3	2023.4	1938.7	1907.6	1893.8	1893.8
32.5°	8297.4	7248.5	4995.4	3262.3	2389.7	2051.0	1912.8	1855.8	1831.6	1824.7	1824.7
35°	8701.7	7383.3	4713.7	2899.4	2165.1	1912.8	1807.4	1774.6	1757.3	1755.5	1760.7
37.5°	9270.2	7658.0	4449.3	2631.6	2006.1	1800.5	1719.3	1693.3	1683.0	1691.6	1698.5
40°	9985.5	8031.3	4209.2	2389.7	1885.1	1710.6	1638.0	1620.8	1615.6	1627.7	1638.0
42.5°	10849.5	8535.8	4012.2	2215.2	1791.8	1634.6	1568.9	1548.2	1543.0	1556.8	1570.7
45°	11784.3	9078.4	3873.9	2085.6	1719.3	1577.6	1508.5	1486.0	1475.6	1482.5	1498.1
47.5°	12634.4	9591.6	3818.7	1994.0	1650.1	1529.2	1454.9	1427.2	1410.0	1406.5	1418.6
50°	13351.5	9973.4	3844.6	1938.7	1594.9	1475.6	1403.1	1372.0	1346.0	1330.5	1339.1
52.5°	13873.3	10213.6	3868.8	1914.5	1551.7	1416.9	1346.0	1316.7	1282.1	1256.2	1256.2
55°	14251.7	10268.9	3815.2	1895.5	1518.8	1352.9	1282.1	1254.5	1219.9	1190.5	1187.1
57.5°	14400.3	10113.4	3616.5	1867.9	1496.4	1292.5	1214.7	1194.0	1164.6	1130.0	1128.3
60°	14199.9	9633.0	3232.9	1809.1	1467.0	1242.4	1147.3	1133.5	1119.7	1086.8	1085.1
62.5°	13394.7	8579.0	2737.0	1689.9	1408.2	1188.8	1085.1	1092.0	1093.8	1071.3	1067.8
65°	11934.6	7131.0	2253.2	1534.4	1320.1	1124.9	1021.2	1054.0	1073.0	1069.6	1064.4
67.5°	9812.7	5550.0	1909.3	1370.2	1204.3	1036.7	952.1	990.1	1005.6	1017.7	1014.3
70°	7283.1	3913.7	1579.3	1197.4	1064.4	933.1	862.2	881.2	870.9	884.7	889.9
72.5°	4060.6	2348.2	1287.3	1024.6	919.2	812.1	762.0	758.5	736.1	736.1	736.1
74°	2436.3	1722.7	1131.8	917.5	831.1	732.6	689.4	673.9	653.1	654.9	653.1
75°	1959.4	1480.8	1038.5	846.7	768.9	686.0	642.8	622.0	606.5	606.5	604.8
77.5°	1237.2	1124.9	836.3	673.9	615.1	565.0	535.6	508.0	508.0	506.3	504.5
80°	934.8	895.1	651.4	509.7	471.7	433.7	414.7	402.6	402.6	407.8	406.1
82.5°	641.1	673.9	457.9	355.9	336.9	309.3	305.8	307.6	302.4	295.5	293.7
85°	468.3	506.3	309.3	224.6	205.6	188.3	202.2	209.1	200.4	184.9	178.0
87.5°	179.7	331.8	165.9	93.3	86.4	74.3	86.4	89.9	96.8	76.0	77.8
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)