

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: P318382

Luminaire Tested: **GAN-SA8D-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56643 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

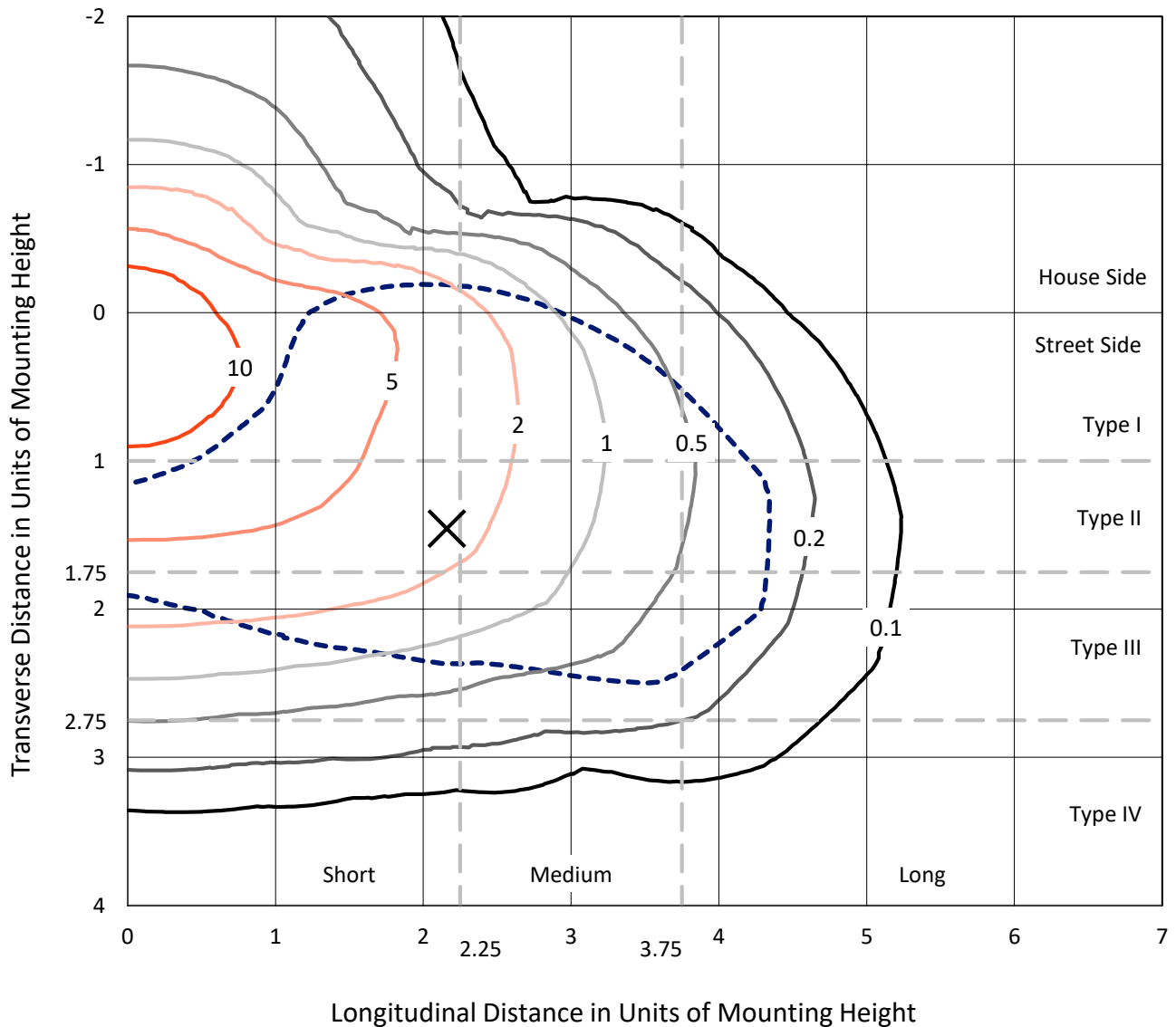
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

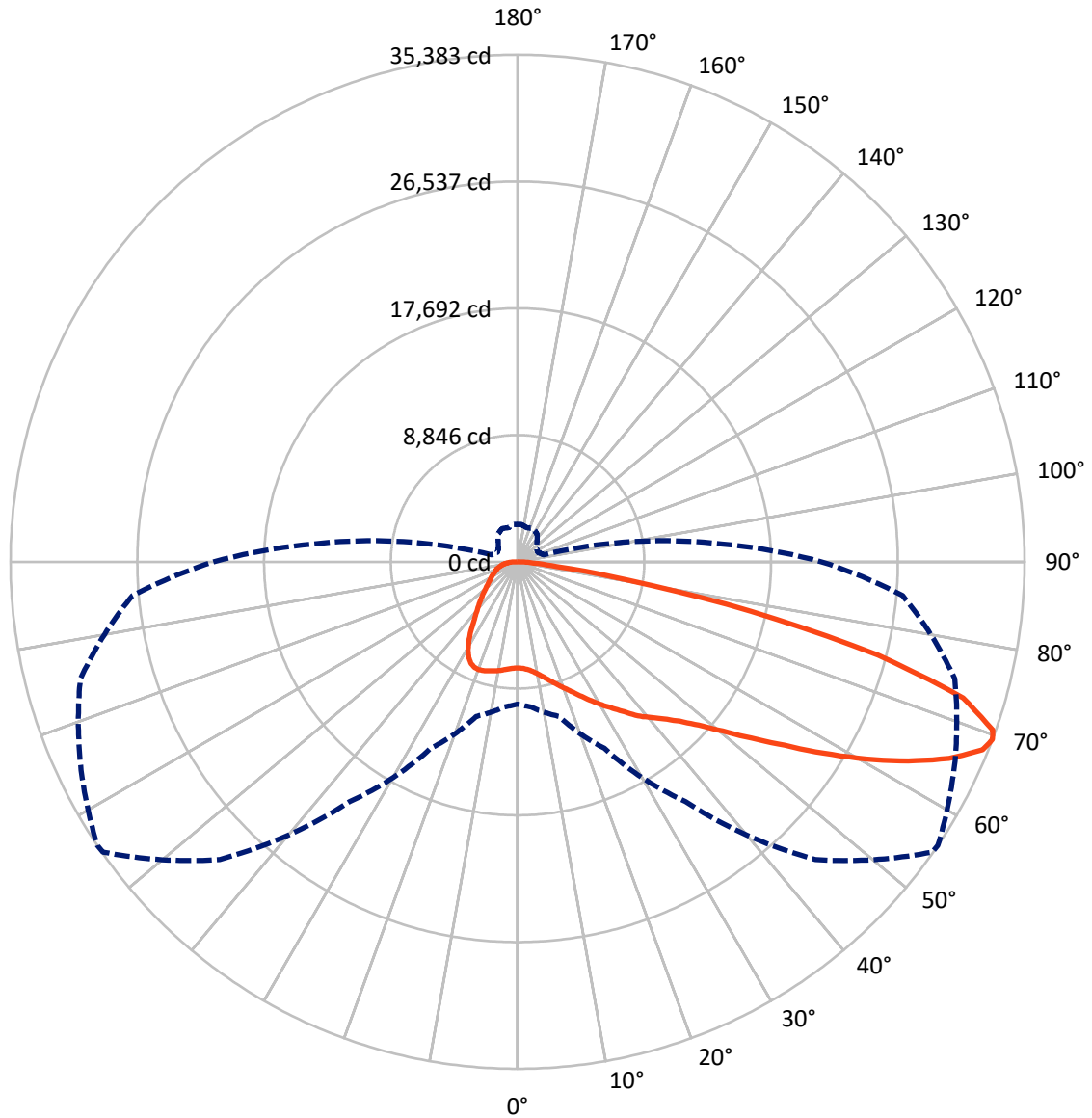
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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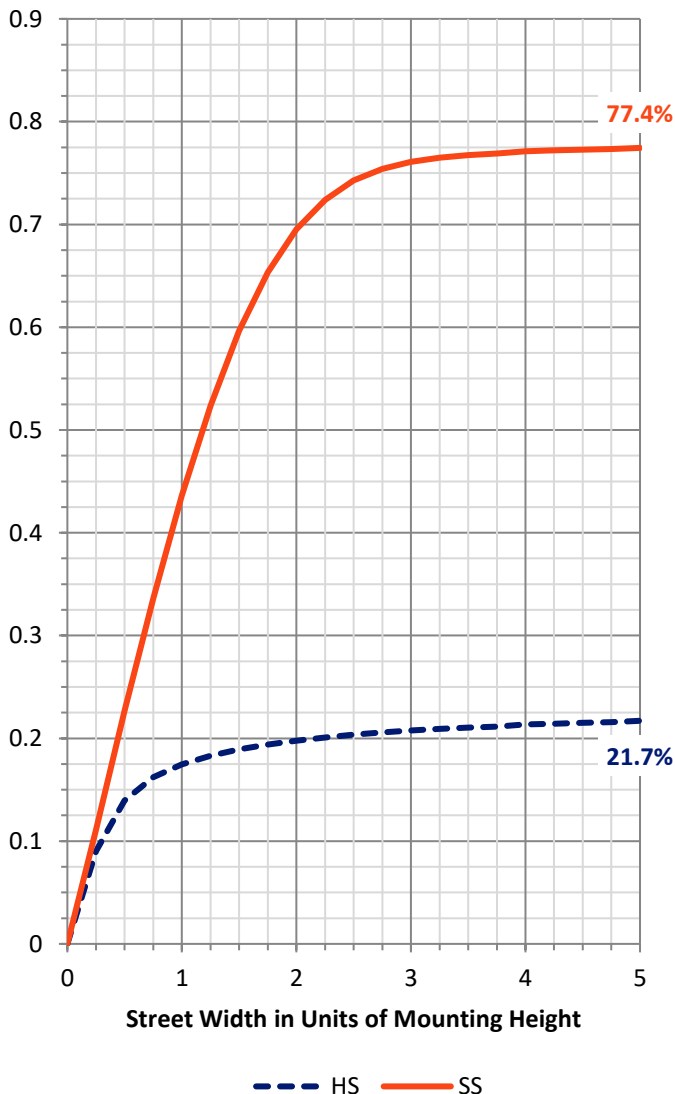
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12614.3	0.0	12614.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	44028.7	0.0	44028.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	56643.0	0.0	56643.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.3	1.3
10°-20°	2338.7	4.1
20°-30°	4082.5	7.2
30°-40°	5864.4	10.4
40°-50°	8116.0	14.3
50°-60°	11891.1	21.0
60°-70°	14497.5	25.6
70°-80°	8015.2	14.2
80°-90°	1110.1	2.0
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°	56643.0	100.0
0°-180°	56643.0	100.0

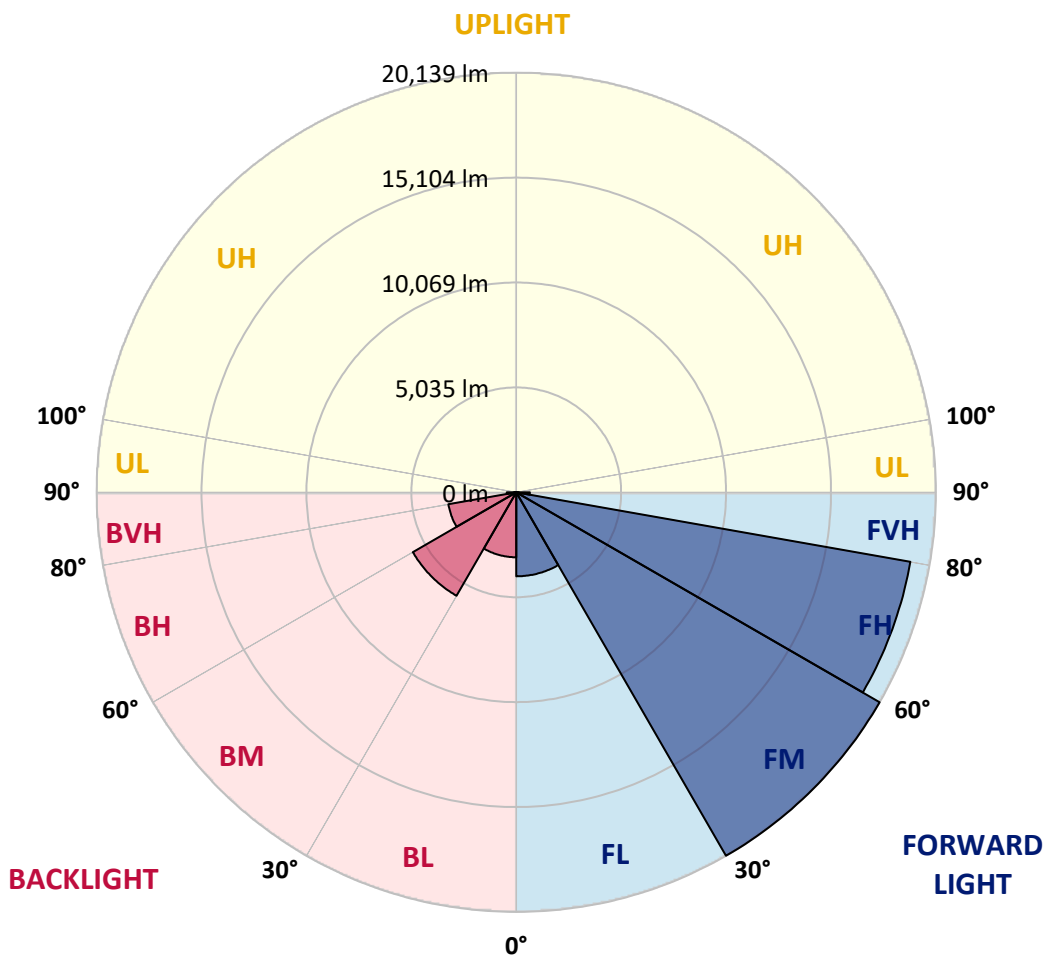


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4031.3	7.1			
FM (30°-60°)	20138.7	35.6			
FH (60°-80°)	19204.8	33.9			G5
FVH (80°-90°)	653.9	1.2			G4/750
BL (0°-30°)	3117.3	5.5	B4/5000		
BM (30°-60°)	5732.9	10.1	B4/8500		
BH (60°-80°)	3307.9	5.8	B4/5000		G4/5000
BVH (80°-90°)	456.2	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7405.2	7405.2	7405.2	7405.2	7405.2	7405.2	7405.2	7405.2	7405.2	7405.2	7405.2
2.5°	7452.1	7459.9	7454.0	7469.6	7452.1	7463.8	7454.0	7454.0	7448.1	7430.6	7411.1
5°	7569.1	7584.7	7575.0	7590.6	7569.1	7573.0	7555.5	7555.5	7537.9	7500.8	7461.8
7.5°	7752.6	7770.1	7762.3	7777.9	7748.7	7748.7	7725.2	7723.3	7688.2	7627.7	7582.8
10°	7971.1	7994.5	7986.7	8010.1	7986.7	7994.5	7971.1	7971.1	7924.3	7838.4	7781.8
12.5°	8289.2	8318.4	8297.0	8295.0	8285.3	8300.9	8281.4	8277.5	8234.5	8117.4	8039.4
15°	8714.5	8745.8	8700.9	8697.0	8642.3	8636.5	8636.5	8630.6	8603.3	8462.8	8334.0
17.5°	9204.3	9214.1	9175.1	9112.6	9042.4	8997.5	8991.6	9007.2	9007.2	8843.3	8638.4
20°	9684.3	9701.9	9670.7	9600.4	9510.7	9444.3	9397.5	9428.7	9426.8	9231.6	8940.9
22.5°	10207.3	10248.3	10201.4	10111.7	10006.3	9932.2	9850.2	9877.5	9879.5	9639.5	9237.5
25°	10884.4	10847.3	10818.1	10691.2	10541.0	10464.9	10388.8	10416.1	10408.3	10078.5	9543.9
27.5°	11483.5	11491.3	11452.2	11317.6	11143.9	10976.1	10972.2	10989.8	10960.5	10535.1	9832.6
30°	12180.1	12184.0	12129.3	12008.4	11819.1	11602.5	11551.8	11581.0	11518.6	10968.3	10137.1
32.5°	12872.8	12892.3	12831.8	12685.5	12533.3	12269.8	12168.4	12187.9	12031.8	11411.3	10451.2
35°	13479.6	13507.0	13487.5	13389.9	13224.0	12997.7	12876.7	12865.0	12671.8	11953.7	10866.8
37.5°	14098.2	14123.6	14102.1	14020.2	13953.8	13713.8	13649.4	13649.4	13313.8	12507.9	11395.6
40°	14734.3	14773.4	14748.0	14634.8	14578.2	14469.0	14314.8	14277.7	13914.8	13173.3	12258.1
42.5°	15325.6	15376.3	15477.8	15411.4	15296.3	15311.9	15001.7	14982.2	14716.8	14156.8	13341.1
45°	16164.6	16238.8	16410.5	16359.8	16336.4	16250.5	15881.7	15864.1	15762.7	15479.7	14685.6
47.5°	17079.8	17181.3	17491.5	17501.3	17753.0	17591.1	17089.6	17029.1	17052.5	17064.2	16326.6
50°	17922.8	18034.0	18543.3	18783.3	19376.5	19411.6	18609.6	18555.0	18646.7	18916.0	18238.9
52.5°	18596.0	18736.5	19372.6	20114.1	21130.7	21419.5	20480.9	20440.0	20508.3	20972.7	20400.9
55°	19089.7	19241.9	19934.6	21284.9	22908.4	23417.7	22635.2	22596.2	22639.1	23230.3	22752.3
57.5°	19204.8	19241.9	20246.8	22073.2	24408.9	25632.4	25271.4	25193.4	24982.6	25497.8	25347.5
60°	18664.3	18812.6	19989.2	22350.3	25570.0	27815.9	28026.7	27929.1	27337.8	27759.3	27638.3
62.5°	17567.6	17833.0	19027.2	21928.8	26024.6	29599.4	30729.2	30612.1	29593.6	29866.7	29285.3
65°	15776.3	15889.5	17144.2	20475.1	25447.0	30740.9	33139.1	33080.6	31798.5	31371.2	29589.7
67.5°	12572.3	12785.0	13850.4	17436.9	23084.0	30606.3	35002.6	34996.7	33238.6	31929.3	28510.6
69°	9932.2	10152.7	11167.3	14363.6	20426.3	29375.0	35314.8	35383.1	33644.5	31589.7	26969.0
70°	7918.4	8174.0	8870.7	12098.1	18067.2	27751.5	35055.3	35178.2	33566.4	31029.7	25546.5
72.5°	3369.9	3576.8	4072.4	6236.4	11011.2	20722.9	32052.2	32516.6	31757.6	28399.4	21113.2
75°	1471.3	1535.7	1760.1	2542.6	4888.0	11278.6	25109.5	25968.0	27154.4	24005.0	15727.6
77.5°	1077.1	1104.4	1227.4	1492.8	2193.3	4259.7	16147.1	16646.6	19583.3	17468.1	9647.3
80°	833.2	852.7	948.3	1096.6	1432.3	1723.0	7364.2	7793.5	11011.2	8972.1	4017.7
82.5°	663.4	677.1	743.4	807.8	989.3	1044.0	2445.0	2712.3	4064.6	2478.2	1063.5
85°	616.6	632.2	655.6	589.3	634.2	612.7	1057.6	1106.4	1227.4	973.7	444.9
87.5°	279.0	329.8	649.8	458.6	337.6	269.3	433.2	452.7	509.3	511.2	197.1
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°	7405.2	7405.2	7405.2	7405.2	7405.2	7405.2	7405.2	7405.2	7405.2	7405.2	7405.2
2.5°	7422.8	7416.9	7426.7	7403.3	7432.5	7430.6	7420.8	7424.7	7444.2	7442.3	7444.2
5°	7467.7	7463.8	7475.5	7457.9	7493.0	7504.7	7506.7	7524.2	7545.7	7551.6	7551.6
7.5°	7580.8	7580.8	7586.7	7563.3	7586.7	7584.7	7575.0	7592.5	7614.0	7616.0	7614.0
10°	7776.0	7777.9	7768.2	7707.7	7688.2	7635.5	7586.7	7588.6	7616.0	7637.4	7643.3
12.5°	8021.8	8014.0	7971.1	7859.9	7777.9	7670.6	7619.9	7617.9	7645.2	7662.8	7668.6
15°	8302.8	8281.4	8170.1	7988.7	7844.3	7738.9	7656.9	7637.4	7621.8	7602.3	7604.3
17.5°	8568.2	8519.4	8334.0	8082.3	7930.1	7789.6	7631.6	7504.7	7416.9	7366.2	7350.6
20°	8837.5	8741.9	8474.5	8170.1	7977.0	7721.3	7416.9	7159.4	6999.3	6925.2	6911.5
22.5°	9083.3	8929.2	8605.3	8261.8	7939.9	7491.1	7013.0	6638.4	6415.9	6316.4	6324.2
25°	9323.4	9108.7	8741.9	8326.2	7752.6	7085.2	6451.0	5990.5	5732.9	5621.7	5617.8
27.5°	9534.1	9290.2	8890.2	8273.6	7403.3	6507.6	5785.6	5336.8	5122.2	5026.6	5011.0
30°	9776.1	9518.5	9087.2	8072.6	6892.0	5840.3	5135.8	4819.7	4667.5	4571.9	4554.4
32.5°	10070.7	9828.7	9249.2	7707.7	6238.3	5143.7	4628.5	4408.0	4269.5	4162.1	4142.6
35°	10500.0	10238.5	9290.2	7184.7	5520.3	4593.4	4255.8	4029.5	3842.1	3703.6	3689.9
37.5°	11038.6	10751.7	9196.5	6507.6	4823.6	4236.3	3945.5	3666.5	3422.6	3227.5	3196.2
40°	11815.2	11382.0	8937.0	5727.1	4310.4	3961.2	3643.1	3325.0	3022.6	2794.3	2749.4
42.5°	12747.9	12121.5	8538.9	4950.5	3933.8	3682.1	3342.6	2948.4	2659.6	2497.7	2474.3
45°	13934.3	12890.4	7986.7	4271.4	3563.1	3403.1	3018.7	2655.7	2476.2	2357.2	2337.7
47.5°	15288.5	13752.8	7407.2	3719.2	3248.9	3141.6	2759.2	2525.0	2382.5	2288.9	2271.3
50°	16953.0	14726.5	6792.5	3266.5	2932.8	2827.4	2636.2	2452.8	2339.6	2267.4	2249.9
52.5°	18830.1	15825.1	6349.6	2909.4	2671.3	2595.2	2571.8	2413.8	2322.1	2267.4	2249.9
55°	20851.7	16943.2	5871.5	2608.9	2445.0	2466.5	2528.9	2417.7	2355.2	2288.9	2263.5
57.5°	22875.2	18098.4	5338.8	2355.2	2265.5	2370.8	2499.6	2425.5	2372.8	2308.4	2285.0
60°	24475.3	18830.1	4513.4	2142.5	2123.0	2265.5	2429.4	2366.9	2298.6	2300.6	2296.7
62.5°	25222.6	18791.1	3602.1	1953.3	1980.6	2123.0	2316.2	2275.2	2218.6	2294.7	2300.6
65°	24803.1	17854.5	2804.0	1781.5	1828.4	1974.7	2199.1	2230.3	2249.9	2396.2	2415.7
67.5°	23043.0	16032.0	2171.8	1631.3	1689.8	1873.3	2210.8	2429.4	2454.7	2608.9	2606.9
69°	21222.4	14322.6	1886.9	1553.2	1621.5	1898.6	2363.0	2556.2	2460.6	2624.5	2601.1
70°	19696.5	12970.4	1734.7	1500.6	1590.3	1943.5	2464.5	2554.3	2431.3	2571.8	2532.8
72.5°	15169.5	9331.2	1471.3	1403.0	1484.9	1859.6	2493.8	2497.7	2363.0	2390.4	2324.0
75°	10404.4	5896.9	1284.0	1270.3	1324.9	1676.2	2400.1	2386.5	2185.5	2146.4	2091.8
77.5°	5736.8	2995.3	1090.8	1143.5	1180.5	1484.9	2181.6	2162.1	1996.2	1914.2	1894.7
80°	2212.8	1311.3	921.0	1016.6	1040.0	1285.9	1912.3	1894.7	1756.2	1650.8	1621.5
82.5°	835.2	686.9	761.0	880.0	872.2	1061.5	1619.6	1609.8	1475.2	1321.0	1274.2
85°	386.4	411.7	603.0	725.9	669.3	786.4	1295.7	1313.2	1149.3	965.9	965.9
87.5°	163.9	230.3	427.3	548.3	450.8	530.8	950.3	907.4	833.2	577.6	542.5
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)