

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: P318412

Luminaire Tested: **GAN-SA8C-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318412
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-SA8C-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56698 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

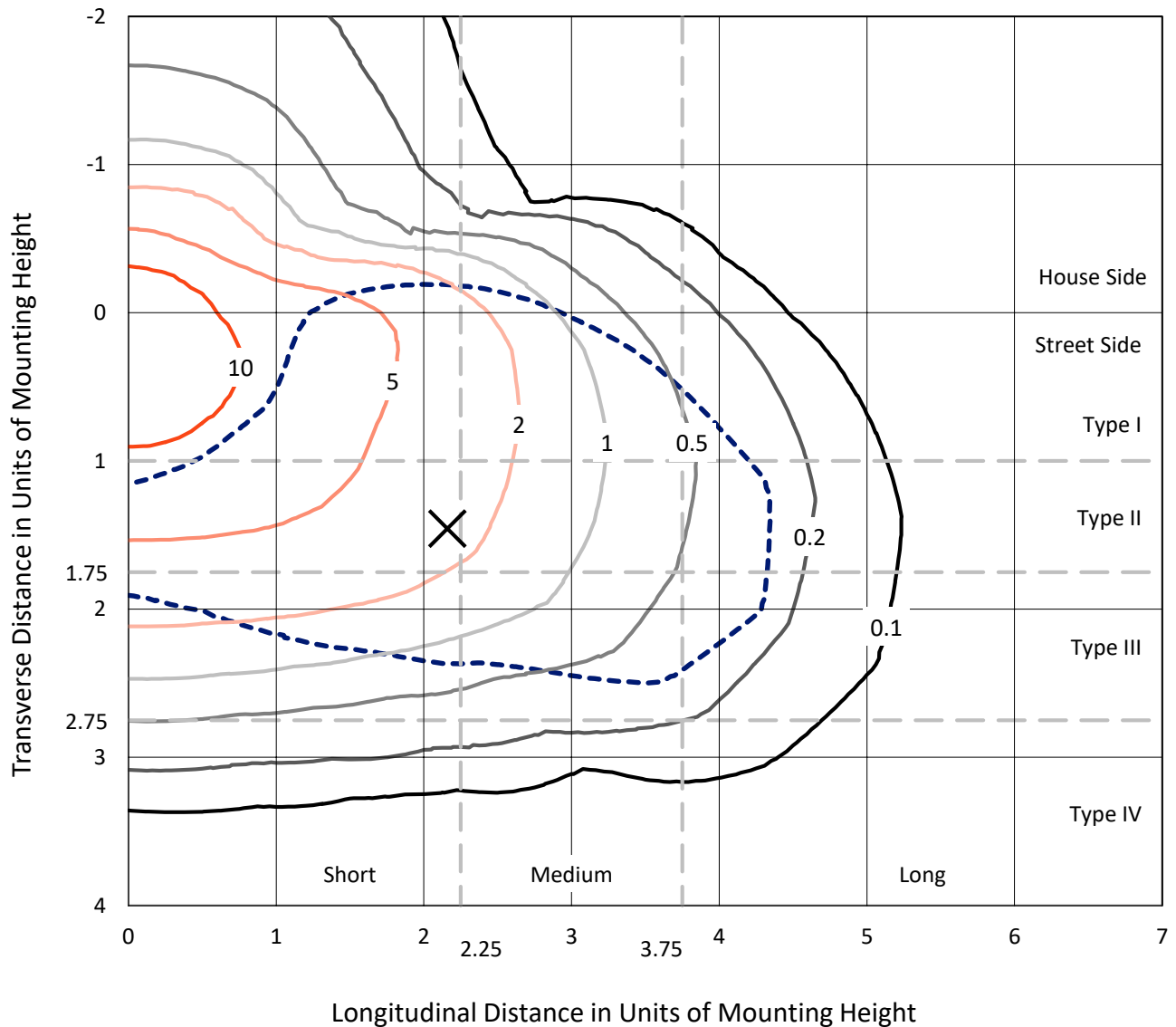
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

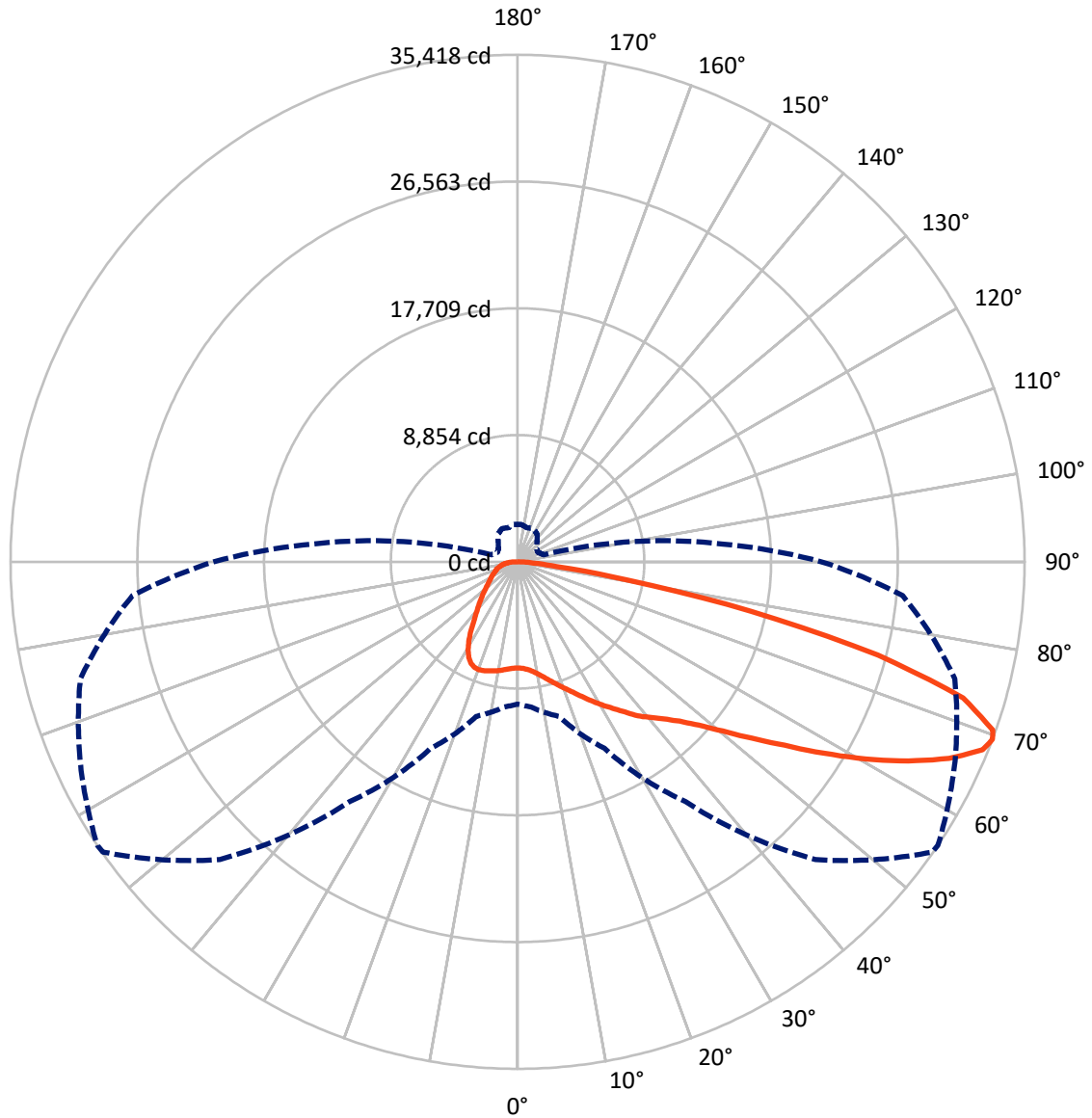
✕ Max cd
 - - - 1/2 Max cd



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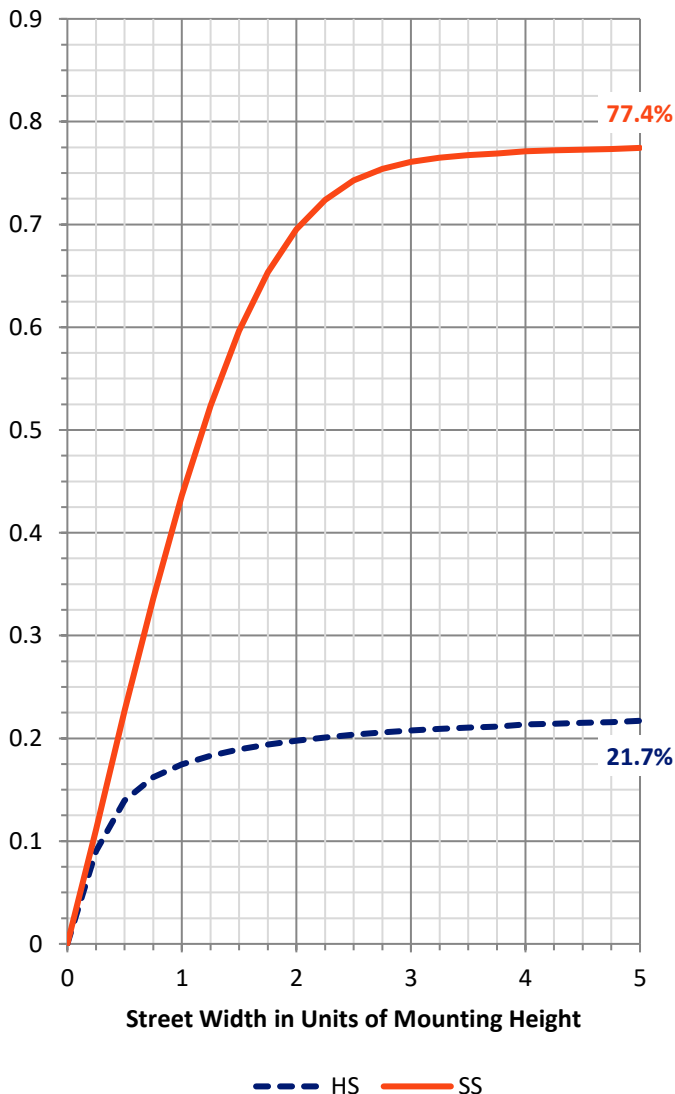
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12626.5	0.0	12626.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	44071.5	0.0	44071.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	56698.0	0.0	56698.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.0	1.3
10°-20°	2341.0	4.1
20°-30°	4086.5	7.2
30°-40°	5870.1	10.4
40°-50°	8123.9	14.3
50°-60°	11902.7	21.0
60°-70°	14511.6	25.6
70°-80°	8023.0	14.2
80°-90°	1111.2	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°	56698.0	100.0
0°-180°	56698.0	100.0

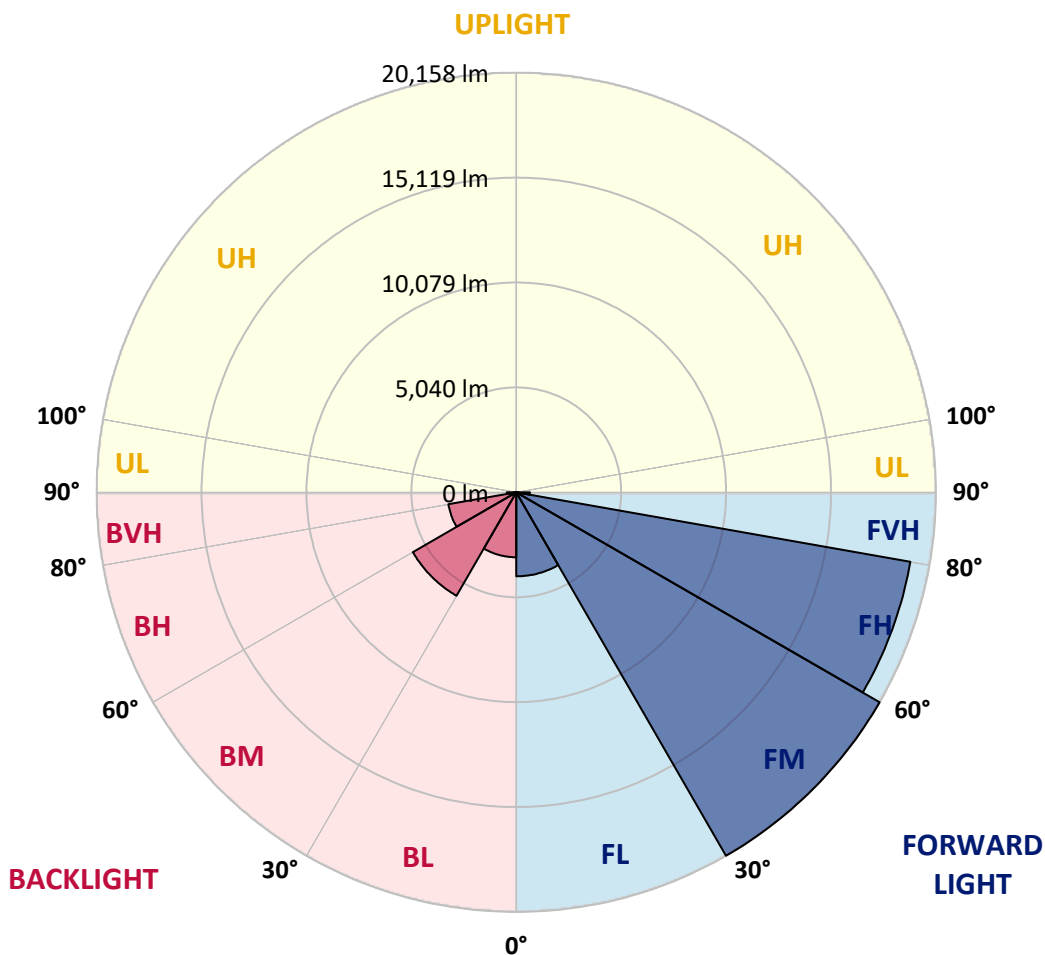


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4035.2	7.1			
FM (30°-60°)	20158.2	35.6			
FH (60°-80°)	19223.5	33.9			G5
FVH (80°-90°)	654.5	1.2			G4/750
BL (0°-30°)	3120.3	5.5	B4/5000		
BM (30°-60°)	5738.5	10.1	B4/8500		
BH (60°-80°)	3311.1	5.8	B4/5000		G4/5000
BVH (80°-90°)	456.7	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°	7412.4	7412.4	7412.4	7412.4	7412.4	7412.4	7412.4	7412.4	7412.4	7412.4	7412.4
2.5°	7459.3	7467.1	7461.2	7476.9	7459.3	7471.0	7461.2	7461.2	7455.4	7437.8	7418.3
5°	7576.5	7592.1	7582.3	7598.0	7576.5	7580.4	7562.8	7562.8	7545.2	7508.1	7469.1
7.5°	7760.1	7777.7	7769.8	7785.5	7756.2	7756.2	7732.7	7730.8	7695.6	7635.1	7590.2
10°	7978.8	8002.3	7994.5	8017.9	7994.5	8002.3	7978.8	7978.8	7932.0	7846.0	7789.4
12.5°	8297.2	8326.5	8305.0	8303.1	8293.3	8308.9	8289.4	8285.5	8242.5	8125.3	8047.2
15°	8723.0	8754.3	8709.3	8705.4	8650.7	8644.9	8644.9	8639.0	8611.7	8471.0	8342.1
17.5°	9213.3	9223.0	9184.0	9121.5	9051.1	9006.2	9000.4	9016.0	9016.0	8851.9	8646.8
20°	9693.8	9711.3	9680.1	9609.8	9519.9	9453.5	9406.6	9437.9	9435.9	9240.6	8949.6
22.5°	10217.2	10258.2	10211.4	10121.5	10016.0	9941.8	9859.8	9887.1	9889.1	9648.8	9246.5
25°	10895.0	10857.9	10828.6	10701.6	10551.2	10475.0	10398.9	10426.2	10418.4	10088.3	9553.1
27.5°	11494.6	11502.4	11463.4	11328.6	11154.7	10986.8	10982.9	11000.4	10971.1	10545.3	9842.2
30°	12191.9	12195.8	12141.1	12020.0	11830.6	11613.8	11563.0	11592.3	11529.8	10979.0	10146.9
32.5°	12885.3	12904.8	12844.3	12697.8	12545.4	12281.7	12180.2	12199.7	12043.5	11422.3	10461.4
35°	13492.7	13520.1	13500.5	13402.9	13236.9	13010.3	12889.2	12877.5	12684.1	11965.3	10877.4
37.5°	14111.9	14137.3	14115.8	14033.8	13967.4	13727.1	13662.7	13662.7	13326.7	12520.0	11406.7
40°	14748.6	14787.7	14762.3	14649.0	14592.4	14483.0	14328.7	14291.6	13928.3	13186.1	12270.0
42.5°	15340.5	15391.2	15492.8	15426.4	15311.2	15326.8	15016.2	14996.7	14731.1	14170.5	13354.1
45°	16180.3	16254.6	16426.4	16375.7	16352.2	16266.3	15897.1	15879.6	15778.0	15494.8	14699.8
47.5°	17096.4	17198.0	17508.5	17518.3	17770.3	17608.1	17106.2	17045.6	17069.1	17080.8	16342.5
50°	17940.2	18051.5	18561.3	18801.5	19395.3	19430.5	18627.7	18573.0	18664.8	18934.4	18256.6
52.5°	18614.0	18754.7	19391.4	20133.6	21151.2	21440.3	20500.8	20459.8	20528.2	20993.0	20420.8
55°	19108.2	19260.5	19953.9	21305.6	22930.6	23440.4	22657.2	22618.1	22661.1	23252.9	22774.4
57.5°	19223.4	19260.5	20266.4	22094.6	24432.6	25657.3	25295.9	25217.8	25006.9	25522.5	25372.1
60°	18682.4	18830.8	20008.6	22372.0	25594.8	27842.9	28053.9	27956.2	27364.4	27786.3	27665.2
62.5°	17584.7	17850.3	19045.7	21950.1	26049.9	29628.2	30759.1	30641.9	29622.3	29895.7	29313.7
65°	15791.7	15904.9	17160.9	20495.0	25471.7	30770.8	33171.3	33112.7	31829.4	31401.7	29618.4
67.5°	12584.5	12797.4	13863.8	17453.8	23106.4	30636.0	35036.6	35030.7	33270.9	31960.3	28538.3
69°	9941.8	10162.5	11178.2	14377.5	20446.1	29403.5	35349.1	35417.5	33677.1	31620.4	26995.2
70°	7926.1	8182.0	8879.3	12109.9	18084.7	27778.5	35089.3	35212.4	33599.0	31059.9	25571.3
72.5°	3373.2	3580.2	4076.3	6242.4	11021.9	20743.0	32083.3	32548.2	31788.4	28426.9	21133.7
75°	1472.7	1537.2	1761.8	2545.0	4892.8	11289.5	25133.8	25993.2	27180.8	24028.3	15742.8
77.5°	1078.2	1105.5	1228.6	1494.2	2195.4	4263.8	16162.8	16662.8	19602.4	17485.1	9656.6
80°	834.0	853.6	949.3	1097.7	1433.7	1724.7	7371.4	7801.1	11021.9	8980.8	4021.6
82.5°	664.1	677.8	744.2	808.6	990.3	1045.0	2447.4	2715.0	4068.5	2480.6	1064.5
85°	617.2	632.8	656.3	589.9	634.8	613.3	1058.6	1107.5	1228.6	974.6	445.3
87.5°	279.3	330.1	650.4	459.0	337.9	269.5	433.6	453.1	509.8	511.7	197.3
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°	7412.4	7412.4	7412.4	7412.4	7412.4	7412.4	7412.4	7412.4	7412.4	7412.4	7412.4
2.5°	7430.0	7424.1	7433.9	7410.5	7439.8	7437.8	7428.0	7431.9	7451.5	7449.5	7451.5
5°	7474.9	7471.0	7482.7	7465.1	7500.3	7512.0	7514.0	7531.6	7553.0	7558.9	7558.9
7.5°	7588.2	7588.2	7594.1	7570.6	7594.1	7592.1	7582.3	7599.9	7621.4	7623.4	7621.4
10°	7783.5	7785.5	7775.7	7715.2	7695.6	7642.9	7594.1	7596.0	7623.4	7644.8	7650.7
12.5°	8029.6	8021.8	7978.8	7867.5	7785.5	7678.0	7627.3	7625.3	7652.7	7670.2	7676.1
15°	8310.9	8289.4	8178.1	7996.4	7851.9	7746.4	7664.4	7644.8	7629.2	7609.7	7611.6
17.5°	8576.5	8527.7	8342.1	8090.2	7937.8	7797.2	7639.0	7512.0	7424.1	7373.3	7357.7
20°	8846.1	8750.4	8482.8	8178.1	7984.7	7728.8	7424.1	7166.3	7006.1	6931.9	6918.2
22.5°	9092.2	8937.9	8613.6	8269.9	7947.6	7498.4	7019.8	6644.8	6422.1	6322.5	6330.3
25°	9332.4	9117.6	8750.4	8334.3	7760.1	7092.1	6457.3	5996.3	5738.5	5627.2	5623.3
27.5°	9543.4	9299.2	8898.8	8281.6	7410.5	6513.9	5791.3	5342.0	5127.2	5031.5	5015.8
30°	9785.6	9527.7	9096.1	8080.4	6898.7	5845.9	5140.8	4824.4	4672.1	4576.4	4558.8
32.5°	10080.5	9838.3	9258.2	7715.2	6244.4	5148.6	4633.0	4412.3	4273.6	4166.2	4146.7
35°	10510.2	10248.5	9299.2	7191.7	5525.6	4597.8	4259.9	4033.4	3845.9	3707.2	3693.5
37.5°	11049.3	10762.2	9205.5	6513.9	4828.3	4240.4	3949.4	3670.1	3425.9	3230.6	3199.3
40°	11826.7	11393.0	8945.7	5732.7	4314.6	3965.0	3646.6	3328.3	3025.5	2797.0	2752.1
42.5°	12760.3	12133.3	8547.2	4955.3	3937.7	3685.7	3345.8	2951.3	2662.2	2500.1	2476.7
45°	13947.8	12902.9	7994.5	4275.6	3566.6	3406.4	3021.6	2658.3	2478.6	2359.5	2339.9
47.5°	15303.4	13766.2	7414.4	3722.8	3252.1	3144.7	2761.8	2527.4	2384.9	2291.1	2273.5
50°	16969.4	14740.8	6799.1	3269.7	2935.7	2830.2	2638.8	2455.2	2341.9	2269.6	2252.0
52.5°	18848.4	15840.5	6355.7	2912.2	2673.9	2597.8	2574.3	2416.1	2324.3	2269.6	2252.0
55°	20871.9	16959.7	5877.2	2611.4	2447.4	2468.9	2531.4	2420.0	2357.5	2291.1	2265.7
57.5°	22897.4	18116.0	5344.0	2357.5	2267.7	2373.1	2502.1	2427.8	2375.1	2310.6	2287.2
60°	24499.0	18848.4	4517.8	2144.6	2125.1	2267.7	2431.7	2369.2	2300.9	2302.8	2298.9
62.5°	25247.1	18809.4	3605.6	1955.2	1982.5	2125.1	2318.5	2277.4	2220.8	2297.0	2302.8
65°	24827.2	17871.8	2806.8	1783.3	1830.2	1976.6	2201.3	2232.5	2252.0	2398.5	2418.1
67.5°	23065.4	16047.5	2173.9	1632.9	1691.5	1875.1	2213.0	2431.7	2457.1	2611.4	2609.5
69°	21243.0	14336.5	1888.7	1554.8	1623.1	1900.5	2365.3	2558.7	2463.0	2627.1	2603.6
70°	19715.6	12982.9	1736.4	1502.0	1591.9	1945.4	2466.9	2556.7	2433.7	2574.3	2535.3
72.5°	15184.2	9340.2	1472.7	1404.4	1486.4	1861.4	2496.2	2500.1	2365.3	2392.7	2326.3
75°	10414.5	5902.6	1285.2	1271.5	1326.2	1677.8	2402.4	2388.8	2187.6	2148.5	2093.8
77.5°	5742.4	2998.2	1091.8	1144.6	1181.7	1486.4	2183.7	2164.2	1998.1	1916.1	1896.6
80°	2214.9	1312.6	921.9	1017.6	1041.1	1287.2	1914.1	1896.6	1757.9	1652.4	1623.1
82.5°	836.0	687.5	761.7	880.9	873.1	1062.5	1621.2	1611.4	1476.6	1322.3	1275.4
85°	386.7	412.1	603.5	726.6	669.9	787.1	1296.9	1314.5	1150.4	966.8	966.8
87.5°	164.1	230.5	427.8	548.9	451.2	531.3	951.2	908.2	834.0	578.1	543.0
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)