

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: P317831

Luminaire Tested: **GAN-SA7A-760-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-760-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33702 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 226
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

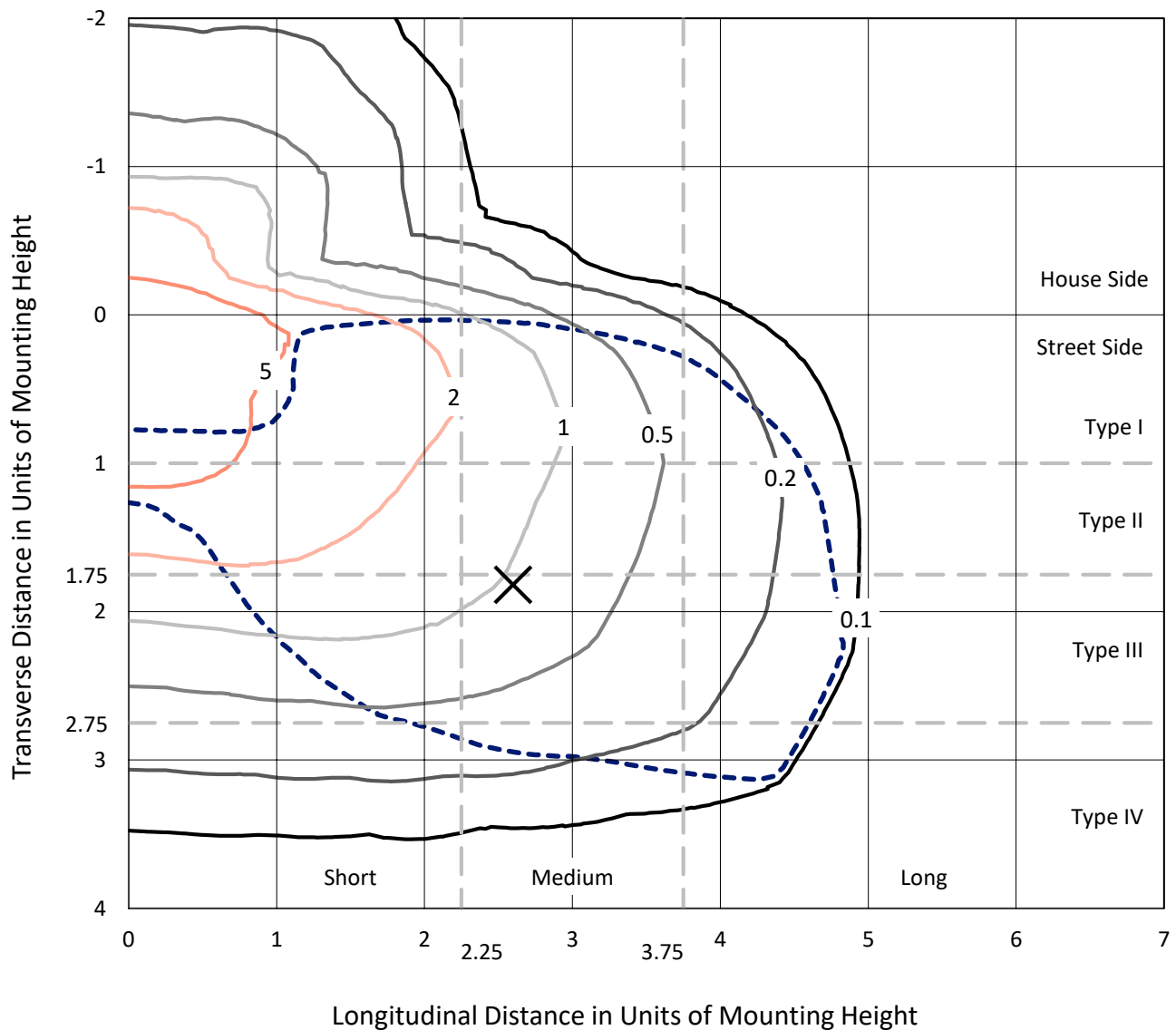


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Iso-Footcandle Lines of Horizontal Illumination

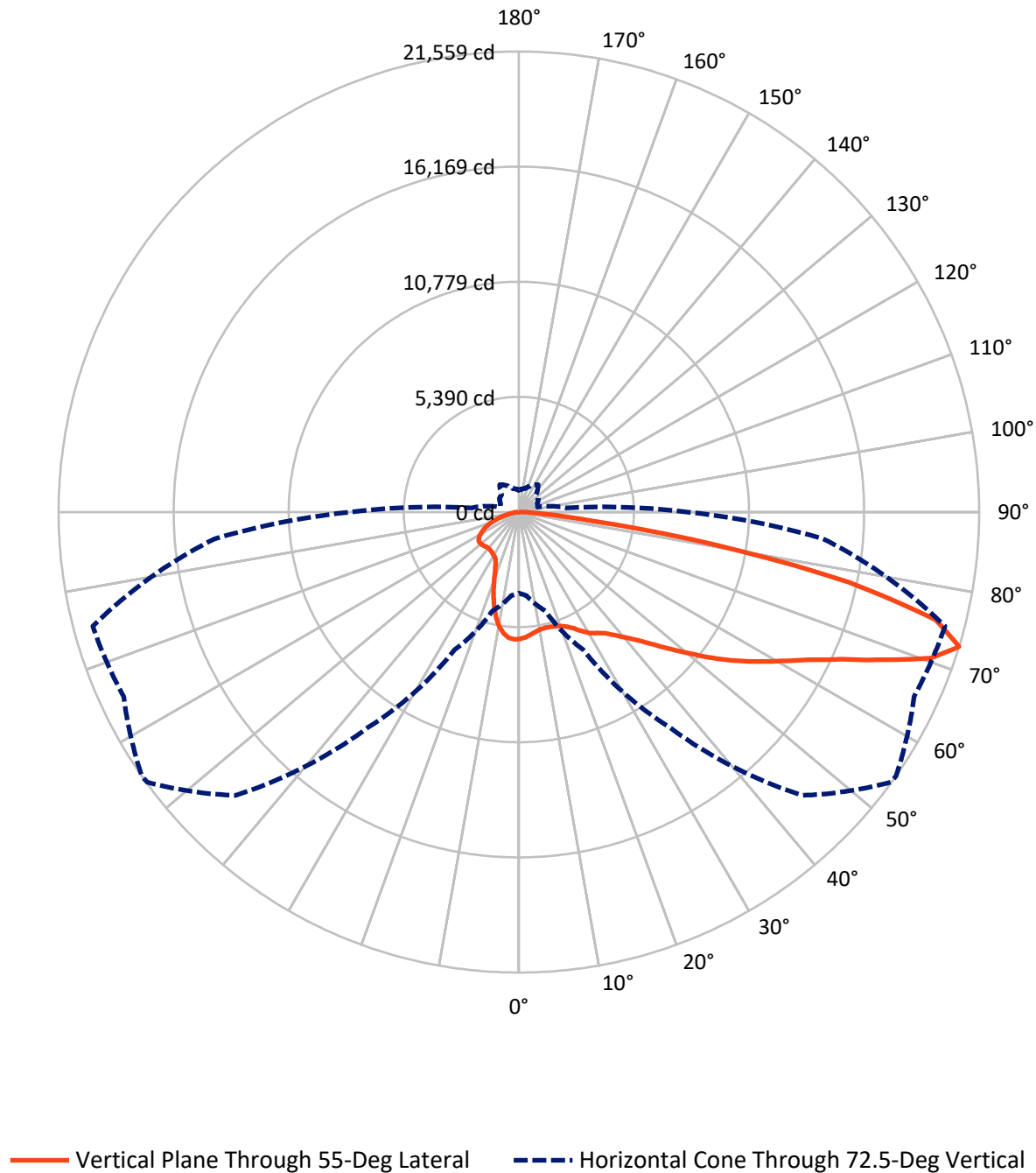
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6264.1	0.0	6264.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	27437.9	0.0	27437.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	33702.0	0.0	33702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.9	1.6
10°-20°	1432.1	4.2
20°-30°	2361.1	7.0
30°-40°	3492.7	10.4
40°-50°	4875.0	14.5
50°-60°	6347.5	18.8
60°-70°	7800.8	23.1
70°-80°	6114.9	18.1
80°-90°	740.0	2.2
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°	33702.0	100.0
0°-180°	33702.0	100.0

Coefficient of Utilization



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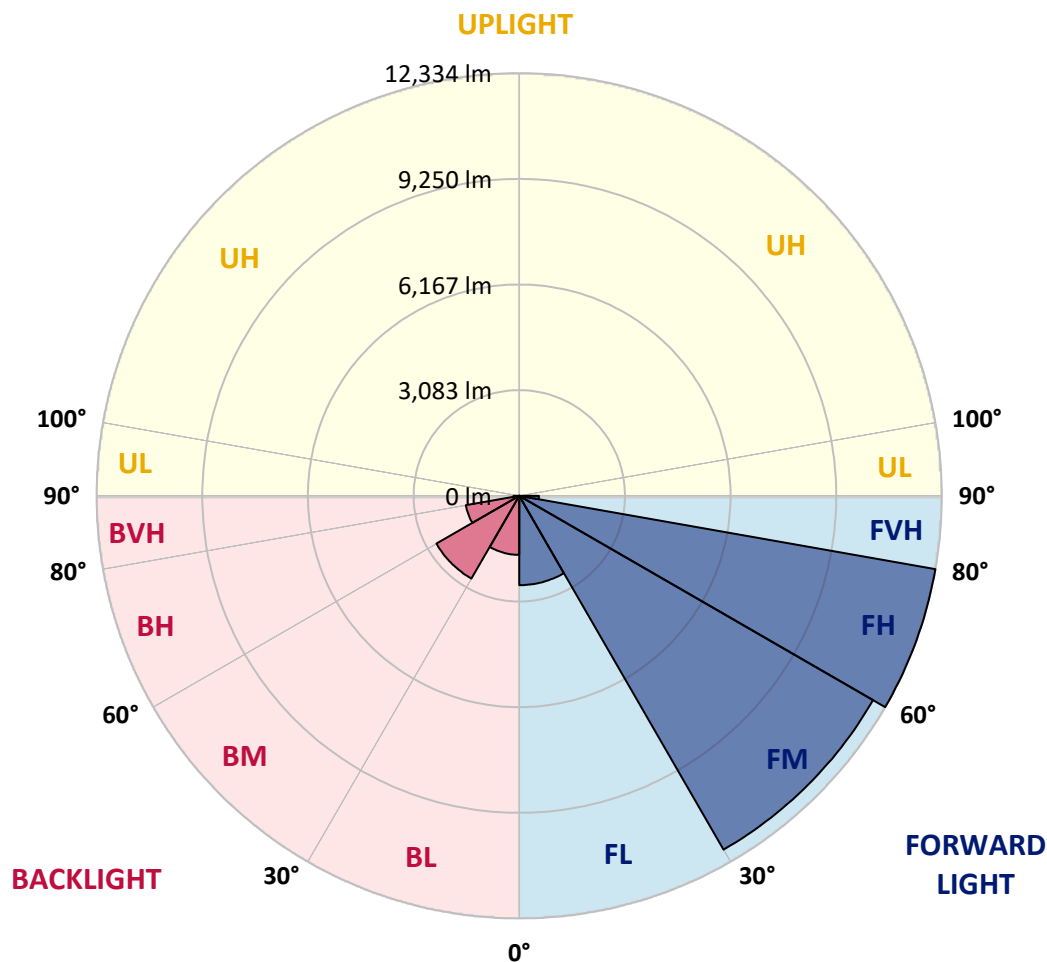
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2607.5	7.7			
FM	(30°-60°)	11924.4	35.4			
FH	(60°-80°)	12333.8	36.6			G5
FVH	(80°-90°)	572.1	1.7			G4/750
BL	(0°-30°)	1723.5	5.1	B3/2500		
BM	(30°-60°)	2790.8	8.3	B3/5000		
BH	(60°-80°)	1582.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	167.9	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3
2.5°	5750.8	5737.1	5754.2	5778.1	5804.3	5839.6	5860.1	5869.2	5904.5	5918.1	5947.7
5°	5484.4	5477.6	5506.1	5547.0	5605.1	5687.0	5753.1	5765.6	5858.9	5925.0	5985.3
7.5°	5290.9	5290.9	5323.9	5372.9	5437.8	5548.2	5641.5	5658.6	5816.8	5959.1	6070.7
10°	5137.2	5142.9	5181.6	5239.7	5316.0	5433.2	5557.3	5576.6	5805.4	6038.8	6216.4
12.5°	5034.8	5048.4	5083.7	5136.1	5230.6	5372.9	5530.0	5556.1	5829.3	6152.6	6391.7
15°	5099.7	5122.4	5125.9	5147.5	5199.8	5354.7	5545.9	5573.2	5880.6	6268.7	6590.9
17.5°	5384.3	5392.2	5356.9	5311.4	5286.4	5385.4	5593.7	5622.2	5942.0	6383.7	6782.1
20°	5816.8	5812.3	5736.0	5613.1	5485.6	5501.5	5672.2	5701.8	6025.1	6485.0	6973.3
22.5°	6363.2	6347.3	6230.0	6003.5	5786.1	5695.0	5810.0	5835.0	6150.3	6629.6	7178.2
25°	7025.7	6990.4	6835.6	6531.7	6211.8	5977.3	6017.2	6041.1	6332.5	6791.2	7366.1
27.5°	7724.6	7689.4	7492.4	7124.7	6699.0	6333.6	6302.9	6323.4	6539.6	6910.7	7504.9
30°	8455.4	8417.9	8238.0	7826.0	7215.8	6702.4	6569.2	6577.2	6685.4	6975.6	7618.8
32.5°	9189.7	9154.4	8952.9	8474.8	7777.0	7098.6	6761.6	6751.4	6773.0	7042.8	7747.4
35°	9934.1	9947.8	9712.1	9182.8	8398.5	7539.1	6989.3	6967.7	6919.8	7180.5	7929.5
37.5°	10730.9	10721.8	10416.8	9863.5	9048.5	8017.2	7316.0	7312.6	7147.5	7441.2	8215.3
40°	11263.7	11269.4	11083.8	10560.2	9705.3	8546.5	7734.9	7726.9	7510.6	7831.6	8589.8
42.5°	11472.0	11509.6	11557.4	11225.0	10392.9	9160.1	8234.6	8223.2	8017.2	8391.7	9030.3
45°	11486.8	11561.9	11857.9	11815.8	11089.5	9862.4	8873.2	8841.3	8693.4	9136.2	9556.2
47.5°	11359.3	11436.7	11928.5	12167.5	11712.2	10603.5	9619.9	9594.9	9467.4	10067.3	10125.4
50°	11080.4	11154.4	11782.8	12339.4	12224.4	11316.0	10480.5	10414.5	10346.2	11143.0	10776.5
52.5°	10557.9	10700.2	11588.1	12380.4	12530.6	11948.9	11385.5	11342.2	11379.8	12277.9	11428.7
55°	9320.6	9479.9	11086.1	12346.2	12757.2	12480.5	12290.4	12288.2	12482.8	13468.6	12128.8
57.5°	8627.3	8740.0	10063.9	12288.2	13025.8	13008.7	13186.3	13207.9	13587.0	14765.2	12861.9
60°	8235.7	8354.1	9546.0	12073.0	13442.4	13691.7	14100.4	14143.6	14709.4	16200.6	13744.1
62.5°	7879.5	8009.2	9224.9	11634.8	13933.0	14668.4	15195.4	15234.1	15897.8	17675.8	14596.7
65°	7270.5	7417.3	8754.8	11346.8	14379.3	15942.2	16587.6	16613.8	17262.6	19221.7	15248.9
67.5°	6409.9	6544.2	7868.1	10710.5	14709.4	17489.2	18438.5	18453.3	18616.1	20313.3	15582.5
70°	5404.7	5456.0	6604.5	9396.8	14318.9	18936.0	20467.0	20470.4	19850.0	21012.3	15527.8
72.5°	3797.4	3918.1	4794.6	7113.4	12305.2	18759.5	21519.9	21558.6	20423.7	20659.4	14287.1
75°	2329.0	2456.5	3007.4	4310.8	7806.6	14753.8	19883.0	20151.7	19348.0	18420.3	11671.2
77.5°	1557.2	1605.0	1962.5	2513.4	3536.8	8488.5	15286.5	15791.9	16073.1	13433.3	7464.0
80°	868.5	959.6	1301.1	1561.8	1573.2	3372.8	9165.8	9284.1	8942.6	5349.0	2302.8
82.5°	459.9	510.0	868.5	917.5	858.3	1129.2	3416.1	3419.5	2857.2	1434.3	684.1
85°	356.3	398.4	595.3	560.1	438.3	500.9	1126.9	1188.4	972.1	587.4	223.1
87.5°	177.6	220.8	404.1	355.2	171.9	143.4	403.0	430.3	383.6	229.9	80.8
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°	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3	5944.3
2.5°	5959.1	5969.4	5981.9	5968.2	5963.7	5945.4	5914.7	5907.9	5891.9	5893.1	5902.2
5°	6011.5	6028.5	6021.7	5969.4	5906.7	5819.1	5728.0	5650.6	5599.4	5596.0	5592.6
7.5°	6111.6	6123.0	6069.5	5920.4	5745.1	5542.5	5351.2	5183.9	5082.6	5057.6	5051.9
10°	6268.7	6266.5	6119.6	5819.1	5469.6	5107.6	4800.3	4568.1	4432.6	4392.8	4382.5
12.5°	6444.0	6417.8	6136.7	5634.7	5080.3	4578.3	4189.0	3930.6	3789.5	3743.9	3732.6
15°	6625.0	6560.1	6094.6	5359.2	4602.2	4008.0	3599.4	3360.3	3284.1	3259.0	3254.5
17.5°	6793.5	6668.3	5973.9	4985.8	4057.0	3440.0	3121.3	3025.7	3043.9	3076.9	3078.0
20°	6958.6	6741.1	5780.4	4514.6	3482.1	2972.2	2864.0	2934.6	3021.1	3088.3	3097.4
22.5°	7121.3	6792.4	5531.1	3970.5	2967.6	2709.2	2785.5	2914.1	3013.1	3086.0	3098.5
25°	7257.9	6804.9	5187.3	3389.9	2610.2	2610.2	2747.9	2869.7	2967.6	3039.3	3051.8
27.5°	7308.0	6720.6	4702.4	2852.6	2430.3	2564.6	2695.5	2796.9	2879.9	2956.2	2969.9
30°	7327.4	6564.7	4142.3	2421.2	2356.3	2515.7	2625.0	2711.5	2790.0	2861.7	2874.3
32.5°	7330.8	6376.9	3548.1	2176.5	2305.1	2464.5	2537.3	2613.6	2697.8	2726.3	2730.8
35°	7352.4	6154.9	2922.1	2051.3	2257.3	2416.7	2474.7	2529.3	2392.7	2403.0	2412.1
37.5°	7415.0	5935.2	2398.4	1980.7	2226.6	2391.6	2461.0	2263.0	2156.0	2130.9	2127.5
40°	7532.3	5700.7	2010.3	1923.8	2215.2	2404.1	2373.4	2112.7	1928.3	1790.6	1770.1
42.5°	7695.0	5448.0	1762.1	1886.2	2223.1	2464.5	2251.6	1968.2	1661.9	1573.2	1561.8
45°	7878.3	5182.8	1627.8	1860.0	2250.5	2511.1	2226.6	1775.8	1537.9	1470.7	1465.0
47.5°	8055.9	4858.4	1558.4	1848.6	2288.0	2473.6	2120.7	1716.6	1478.7	1443.4	1446.8
50°	8259.7	4565.8	1516.2	1836.1	2321.0	2449.7	2001.2	1685.9	1455.9	1499.2	1544.7
52.5°	8431.5	4263.0	1478.7	1811.1	2333.6	2407.5	1970.4	1691.5	1455.9	1539.0	1582.3
55°	8635.3	4034.2	1435.4	1758.7	2309.7	2288.0	1948.8	1725.7	1473.0	1420.6	1425.2
57.5°	8898.2	3959.1	1387.6	1676.7	2230.0	2113.9	1938.6	1758.7	1462.7	1429.7	1441.1
60°	9262.5	4038.8	1368.3	1569.7	2105.9	1977.3	1939.7	1741.6	1391.0	1334.1	1335.2
62.5°	9609.7	4127.5	1367.1	1502.6	1953.4	1855.5	1913.5	1685.9	1354.6	1321.6	1334.1
65°	9723.5	4037.6	1312.5	1427.5	1781.5	1709.8	1865.7	1626.7	1327.3	1277.2	1274.9
67.5°	9571.0	3758.7	1202.1	1305.7	1584.5	1540.1	1803.1	1556.1	1284.0	1243.0	1236.2
70°	9117.9	3136.1	1065.5	1145.2	1360.3	1348.9	1704.1	1474.1	1226.0	1190.7	1161.1
72.5°	7898.8	2234.5	898.1	952.8	1107.6	1144.0	1567.5	1367.1	1144.0	1067.7	1022.2
75°	6487.3	1654.0	737.6	749.0	841.2	940.3	1379.6	1241.9	1047.3	917.5	882.2
77.5°	3972.7	1012.0	587.4	591.9	603.3	750.2	1136.0	1101.9	924.3	765.0	739.9
80°	1286.3	552.1	424.6	446.2	412.1	549.8	878.8	938.0	793.4	639.7	612.4
82.5°	489.5	322.1	286.9	301.7	285.7	368.8	640.9	751.3	650.0	525.9	428.0
85°	236.8	182.1	169.6	190.1	176.4	189.0	409.8	553.2	492.9	342.6	318.7
87.5°	84.2	80.8	64.9	87.7	75.1	67.2	125.2	278.9	325.6	235.6	210.6
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)