

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: P318818

Luminaire Tested: **GAN-SA4D-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31488 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

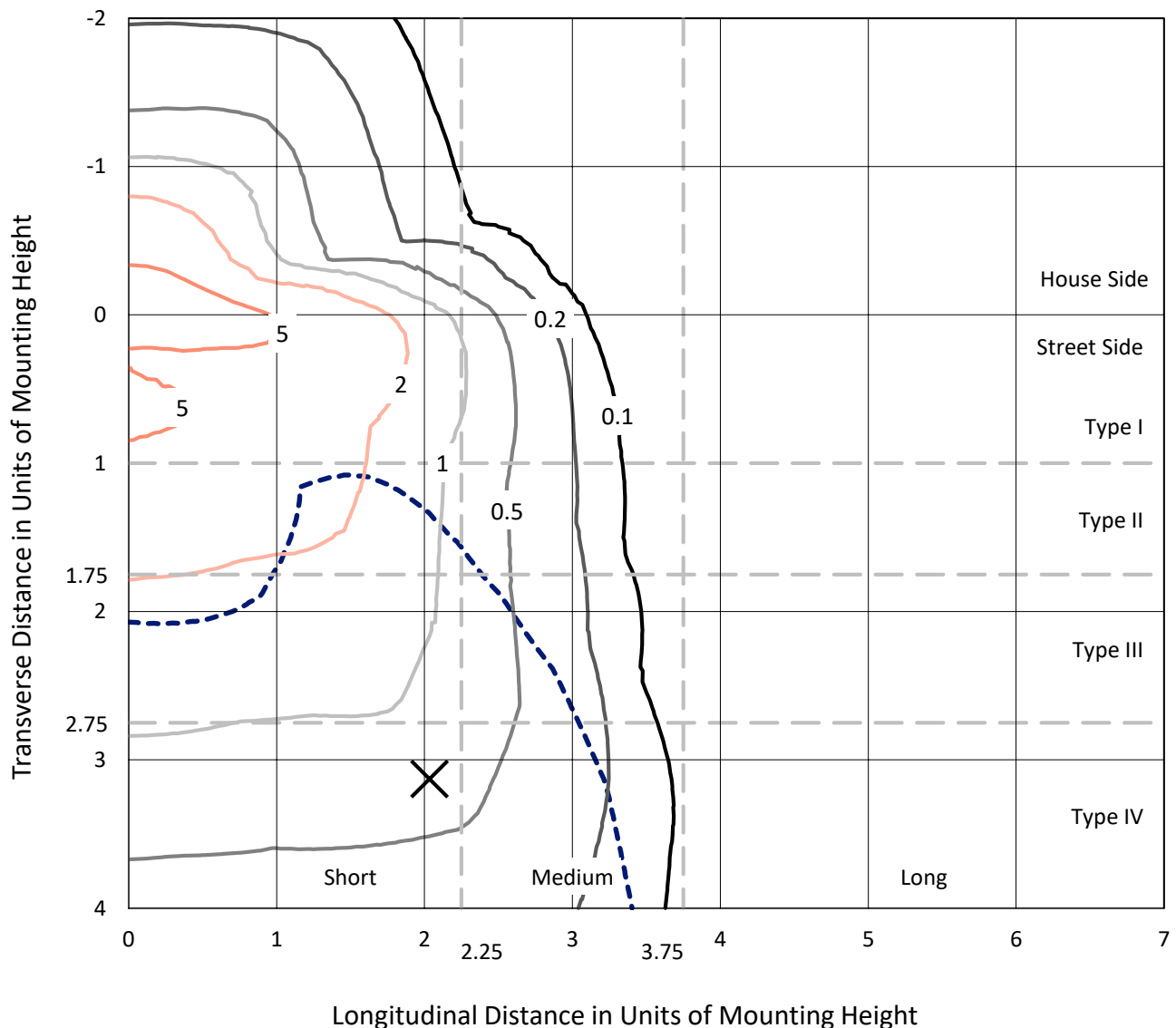
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

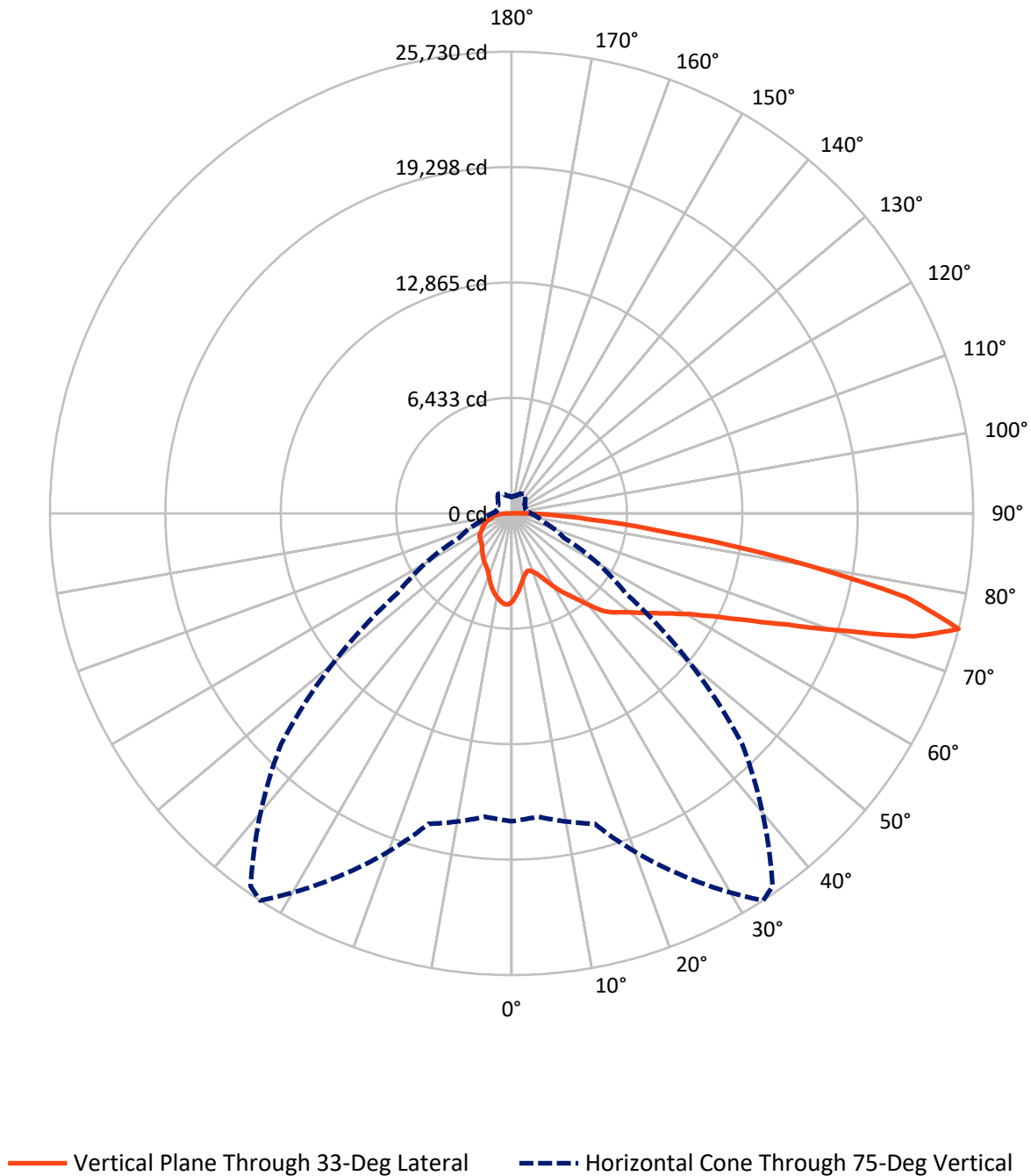
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6761.3	0.0	6761.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	24726.7	0.0	24726.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	31488.0	0.0	31488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.1	1.4
10°-20°	1205.5	3.8
20°-30°	1968.8	6.3
30°-40°	2932.1	9.3
40°-50°	4205.4	13.4
50°-60°	5773.3	18.3
60°-70°	7227.9	23.0
70°-80°	6538.8	20.8
80°-90°	1191.1	3.8
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°	31488.0	100.0
0°-180°	31488.0	100.0

Coefficient of Utilization



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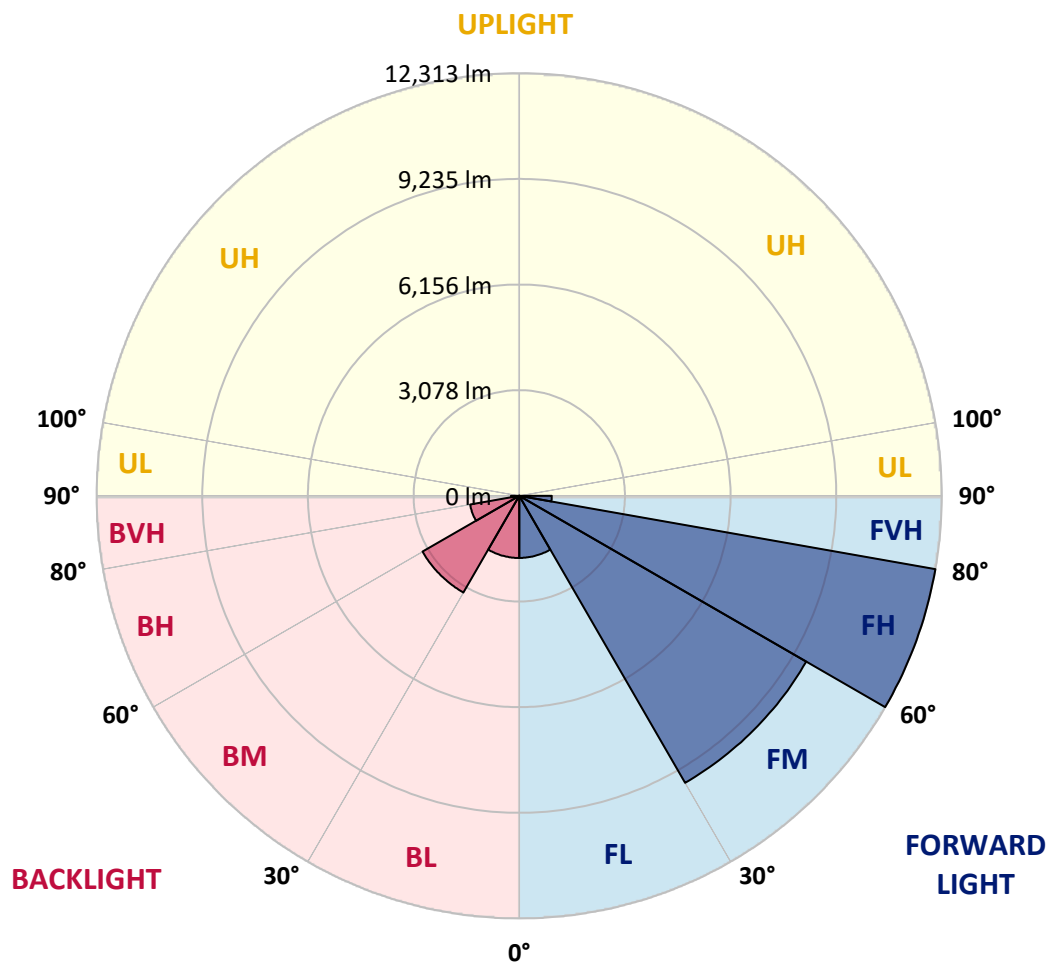
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1808.5	5.7			
FM	(30°-60°)	9656.7	30.7			
FH	(60°-80°)	12312.9	39.1			G5
FVH	(80°-90°)	948.6	3.0			G5
BL	(0°-30°)	1811.0	5.8	B3/2500		
BM	(30°-60°)	3254.0	10.3	B3/5000		
BH	(60°-80°)	1453.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	242.5	0.8			G3/500
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°	33°	35°	45°	55°	65°	75°	85°
0°	4921.8	4921.8	4921.8	4921.8	4921.8	4921.8	4921.8	4921.8	4921.8	4921.8	4921.8
2.5°	4570.4	4553.0	4585.7	4590.0	4618.3	4629.2	4668.3	4729.2	4779.3	4836.9	4889.1
5°	4156.0	4144.1	4189.7	4222.4	4284.4	4310.5	4402.9	4532.4	4647.7	4778.2	4896.7
7.5°	3762.3	3755.8	3806.9	3880.8	3952.6	3988.5	4148.4	4336.6	4529.1	4740.1	4921.8
10°	3430.5	3428.4	3477.3	3550.2	3655.7	3695.9	3902.6	4150.6	4420.3	4710.7	4964.2
12.5°	3244.5	3252.2	3275.0	3335.9	3433.8	3474.0	3703.5	3995.0	4329.0	4701.0	5026.2
15°	3290.2	3302.2	3263.0	3260.9	3330.5	3362.0	3577.4	3884.1	4263.7	4717.3	5116.4
17.5°	3484.9	3487.1	3383.8	3318.5	3360.9	3377.2	3538.2	3821.0	4225.6	4754.2	5229.6
20°	3759.0	3753.6	3570.9	3462.1	3484.9	3489.3	3593.7	3822.1	4222.4	4818.4	5376.4
22.5°	4122.3	4082.1	3836.2	3688.3	3682.9	3676.4	3736.2	3902.6	4270.2	4922.8	5551.5
25°	4596.5	4558.5	4220.2	4017.9	3974.4	3958.1	3966.8	4074.4	4364.9	5034.9	5747.3
27.5°	5124.1	5057.7	4731.4	4445.3	4355.1	4332.2	4280.0	4317.0	4468.2	5142.5	5980.1
30°	5565.7	5529.8	5244.8	4905.4	4798.8	4766.2	4629.2	4588.9	4617.2	5289.4	6273.7
32.5°	5812.6	5788.6	5615.7	5341.6	5242.6	5196.9	5003.3	4922.8	4856.5	5521.1	6671.8
35°	6111.7	6096.4	5992.0	5793.0	5646.1	5598.3	5448.2	5364.4	5193.7	5839.8	7186.3
37.5°	6492.4	6476.0	6478.2	6317.2	6142.1	6097.5	5998.6	5910.5	5630.9	6258.5	7745.4
40°	6923.1	6891.5	6879.6	6872.0	6761.0	6736.0	6683.8	6564.1	6179.1	6758.8	8296.8
42.5°	7571.3	7459.3	7220.0	7310.3	7420.2	7407.1	7449.5	7277.7	6788.2	7350.5	8835.2
45°	8196.8	8012.9	7599.6	7619.2	7859.6	7932.4	8250.1	8128.2	7448.4	7998.8	9392.1
47.5°	8481.7	8342.5	7991.2	7992.3	8230.5	8381.7	9077.8	8990.8	8142.4	8735.2	10071.9
50°	8800.4	8661.2	8345.8	8464.3	8672.1	8833.0	9877.2	9832.6	8802.6	9541.1	10886.6
52.5°	9148.5	8912.4	8712.3	8924.4	9215.9	9403.0	10677.8	10555.9	9408.4	10352.5	11823.1
55°	9152.8	9088.7	9240.9	9396.5	9832.6	10062.1	11516.4	11194.4	9902.2	11149.8	12585.5
57.5°	9673.8	9569.4	9892.4	9964.2	10534.2	10793.0	12350.6	11750.2	10404.7	11761.1	12996.7
60°	10363.4	10274.2	10538.5	10727.8	11402.1	11748.0	13241.4	12321.2	10799.6	12222.3	12977.1
62.5°	11554.4	11453.3	11450.0	11715.4	12623.6	13026.1	14241.0	12881.4	10956.2	12313.6	12423.5
65°	13298.0	13137.0	12833.5	12959.7	14310.6	14712.0	15358.0	13287.1	10749.5	11824.2	10997.5
67.5°	14994.8	14989.3	14616.2	14875.1	16538.2	16860.1	16630.6	13327.3	10104.5	10119.8	8467.6
70°	16686.1	16707.8	16644.8	17545.4	19547.8	19882.8	17985.9	12786.8	8654.7	7308.1	5072.9
72.5°	18026.1	18020.7	18338.3	20660.5	23453.6	23378.6	19127.9	11148.7	6213.9	3945.0	2424.4
75°	17158.1	16968.9	17915.2	22202.8	25730.2	25363.6	18156.6	7776.9	3225.0	1795.8	1305.2
77.5°	11191.1	11370.6	12759.6	18341.5	22506.3	22060.3	13320.8	3628.5	1519.5	1178.0	946.3
80°	4052.7	4242.0	5974.6	10389.5	15506.0	15433.1	6559.8	1491.2	1027.9	889.7	689.6
82.5°	1394.4	1464.0	2357.0	4613.9	8754.7	9081.0	2467.9	847.3	747.2	630.9	472.1
85°	547.1	626.5	1077.9	2220.0	4416.0	4448.6	999.6	506.9	519.9	413.3	258.9
87.5°	207.7	252.3	515.6	1031.1	2016.6	1852.3	357.8	241.5	295.8	245.8	122.9
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°	4921.8	4921.8	4921.8	4921.8	4921.8	4921.8	4921.8	4921.8	4921.8	4921.8	4921.8
2.5°	4929.4	4952.2	5000.1	5032.7	5067.5	5077.3	5081.6	5090.3	5099.0	5095.8	5096.9
5°	4959.8	5004.4	5081.6	5114.3	5129.5	5112.1	5078.4	5051.2	5031.6	5020.7	5017.5
7.5°	5009.9	5072.9	5155.6	5150.2	5115.4	5038.1	4951.1	4885.9	4831.5	4811.9	4801.0
10°	5076.2	5150.2	5207.8	5145.8	5044.7	4910.9	4780.4	4679.2	4597.6	4566.1	4560.6
12.5°	5161.0	5236.1	5247.0	5115.4	4947.9	4765.1	4587.8	4454.0	4332.2	4293.1	4284.4
15°	5270.9	5341.6	5274.2	5062.1	4828.2	4582.4	4352.9	4171.3	4042.9	3995.0	3977.6
17.5°	5386.2	5453.6	5279.6	4974.0	4671.6	4365.9	4077.7	3891.7	3744.9	3689.4	3682.9
20°	5524.3	5554.8	5256.8	4847.8	4456.2	4085.3	3781.9	3606.7	3528.4	3489.3	3484.9
22.5°	5695.1	5662.5	5204.5	4677.0	4183.2	3761.2	3514.3	3432.7	3413.1	3404.4	3407.7
25°	5875.6	5775.6	5127.3	4454.0	3838.4	3437.1	3318.5	3341.4	3367.5	3364.2	3364.2
27.5°	6074.7	5890.9	5008.8	4158.2	3456.6	3171.7	3185.8	3269.6	3308.7	3307.6	3306.5
30°	6330.3	6021.4	4857.6	3802.5	3099.9	2984.6	3070.5	3172.8	3226.1	3223.9	3225.0
32.5°	6644.6	6165.0	4652.0	3405.5	2842.1	2846.5	2945.4	3046.6	3108.6	3103.2	3104.2
35°	7012.3	6325.9	4373.6	3014.0	2671.3	2736.6	2814.9	2885.6	2944.3	2936.7	2929.1
37.5°	7412.5	6483.7	4003.7	2663.7	2532.1	2634.4	2699.6	2711.6	2738.8	2719.2	2705.1
40°	7793.2	6604.4	3527.3	2376.6	2391.8	2547.3	2589.8	2541.9	2493.0	2486.4	2466.9
42.5°	8125.0	6644.6	3045.5	2147.1	2243.9	2456.0	2482.1	2382.0	2293.9	2252.6	2235.2
45°	8475.2	6658.8	2596.3	1954.6	2101.4	2374.4	2402.7	2268.9	2144.9	2055.7	2026.3
47.5°	8933.1	6761.0	2247.1	1812.1	1992.6	2320.0	2360.3	2178.6	2017.6	1890.4	1863.2
50°	9532.4	6963.3	1963.3	1703.3	1921.9	2284.1	2329.8	2090.5	1913.2	1759.9	1732.7
52.5°	10198.1	7149.3	1733.8	1615.2	1853.4	2221.0	2290.7	2027.4	1815.3	1639.1	1609.8
55°	10663.6	7006.8	1548.9	1523.8	1764.2	2130.8	2236.3	1974.1	1675.0	1521.7	1495.6
57.5°	10752.8	6519.6	1408.5	1429.2	1656.5	2017.6	2152.5	1855.6	1598.9	1470.5	1443.4
60°	10509.2	5840.8	1304.1	1342.2	1541.2	1875.2	1995.9	1771.8	1526.0	1416.2	1393.3
62.5°	9896.8	5145.8	1226.9	1263.9	1433.6	1730.5	1898.0	1683.7	1452.1	1354.2	1331.3
65°	8660.1	4320.3	1152.9	1194.3	1333.5	1605.4	1809.9	1602.2	1379.2	1304.1	1282.4
67.5°	6537.0	3235.8	1083.3	1120.3	1244.3	1496.6	1714.2	1521.7	1308.5	1260.6	1234.5
70°	3849.3	2026.3	1003.9	1043.1	1150.8	1383.5	1611.9	1433.6	1220.4	1198.6	1164.9
72.5°	1791.4	1219.3	913.7	951.7	1033.3	1232.3	1480.3	1318.3	1116.0	1068.1	1022.4
75°	1069.2	891.9	807.1	840.8	898.4	1071.4	1315.0	1200.8	1017.0	953.9	906.0
77.5°	799.4	682.0	689.6	725.5	772.3	937.6	1164.9	1108.3	940.8	891.9	859.3
80°	575.4	517.7	562.3	601.5	650.4	852.7	1116.0	1024.6	850.6	785.3	754.8
82.5°	384.0	372.0	423.1	463.4	511.2	746.1	1048.5	897.3	726.6	643.9	576.5
85°	212.1	224.1	285.0	302.4	343.7	525.3	859.3	721.1	547.1	440.5	420.9
87.5°	88.1	103.3	153.4	147.9	182.7	313.3	565.6	435.1	348.1	260.0	202.3
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)