

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: P318819

Luminaire Tested: **GAN-SA5D-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318819
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-SA5D-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 39013 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

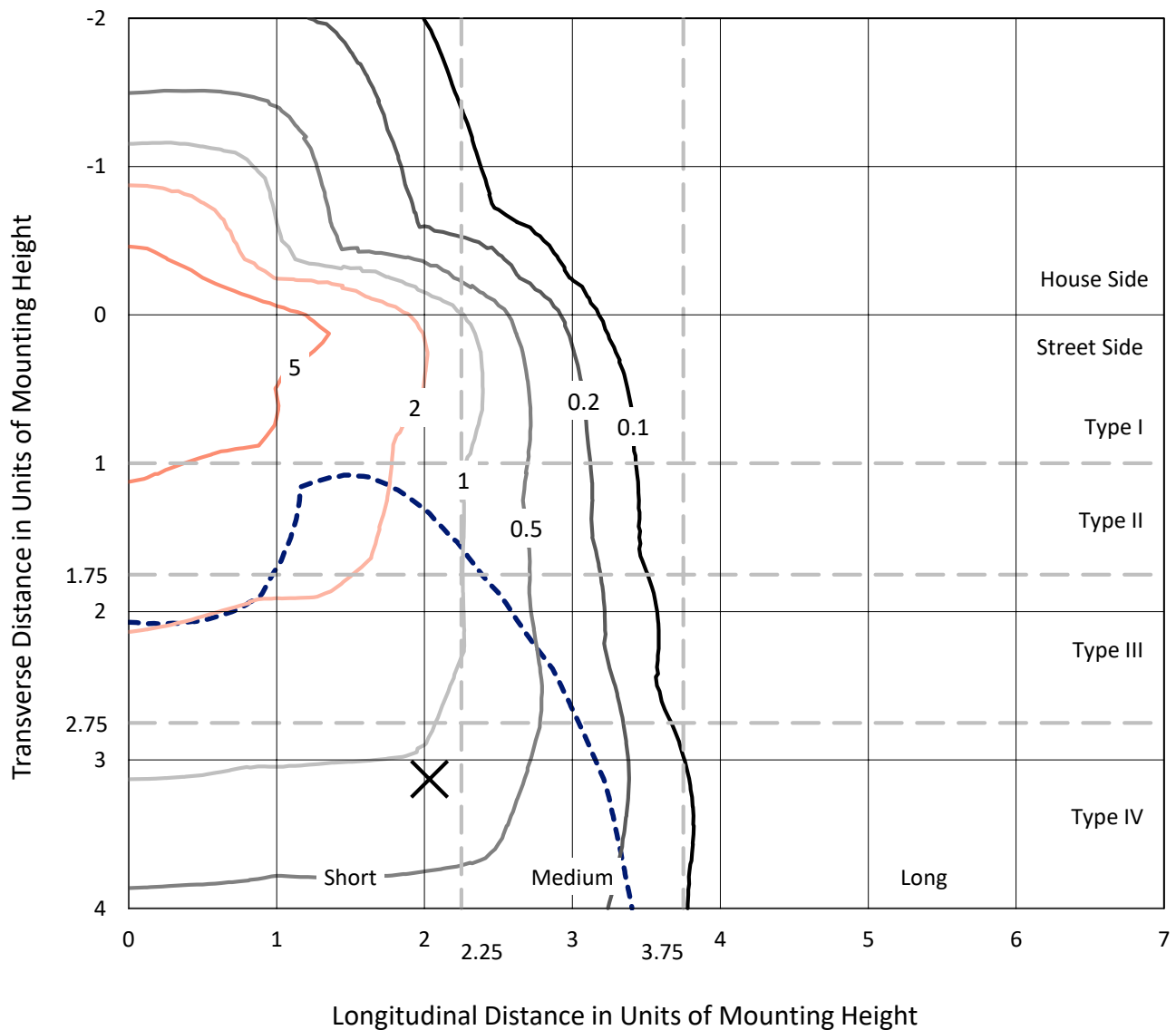
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

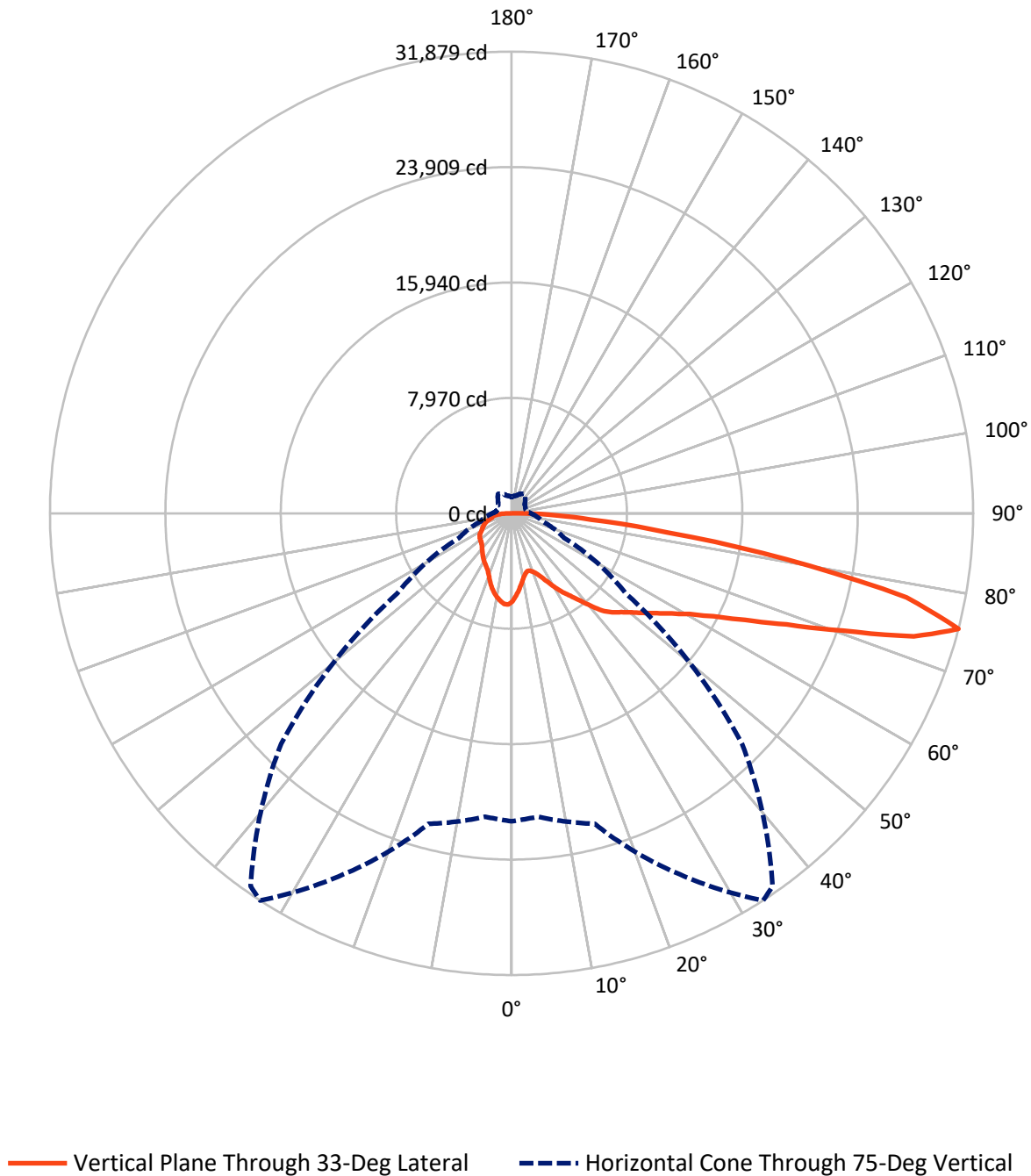
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	8377.1	0.0	8377.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	30635.9	0.0	30635.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	39013.0	0.0	39013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.5	1.4
10°-20°	1493.6	3.8
20°-30°	2439.3	6.3
30°-40°	3632.8	9.3
40°-50°	5210.4	13.4
50°-60°	7153.0	18.3
60°-70°	8955.3	23.0
70°-80°	8101.4	20.8
80°-90°	1475.7	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°	39013.0	100.0
0°-180°	39013.0	100.0

Coefficient of Utilization



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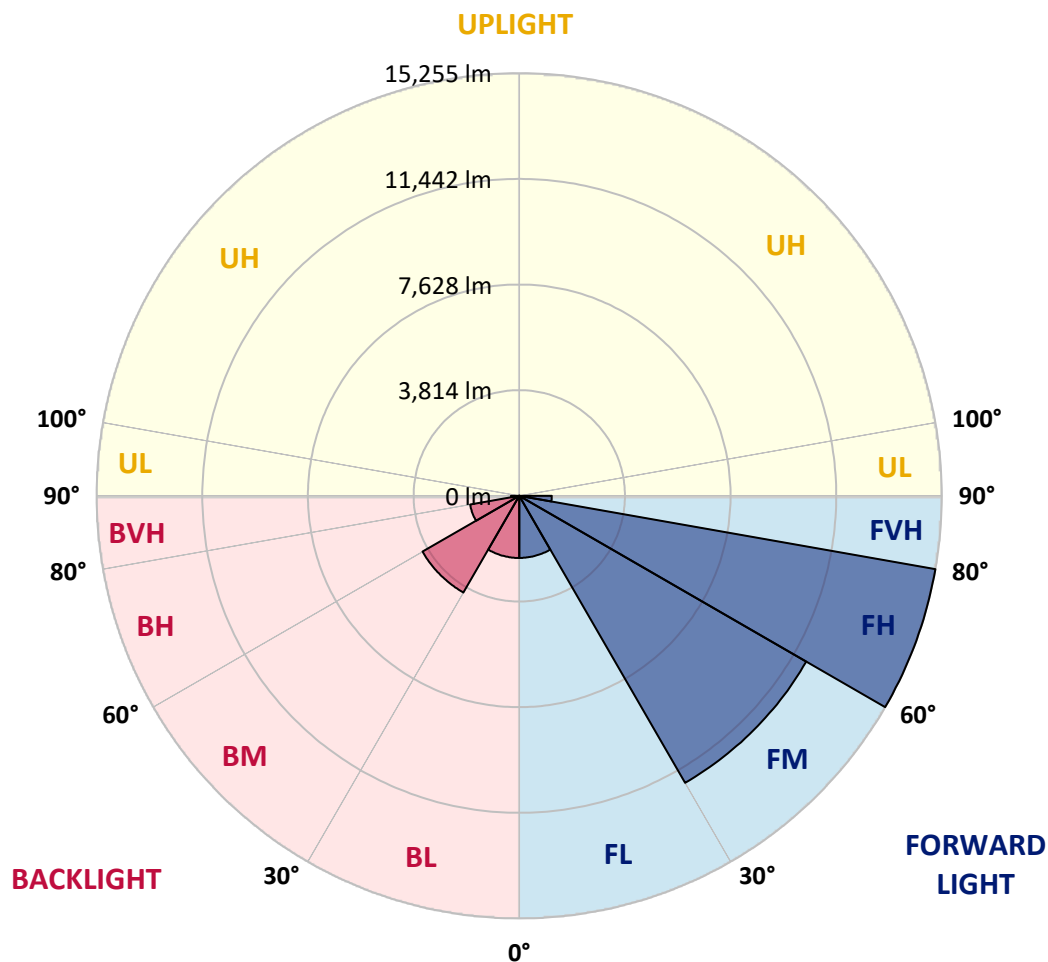
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2240.7	5.7			
FM	(30°-60°)	11964.5	30.7			
FH	(60°-80°)	15255.4	39.1			G5
FVH	(80°-90°)	1175.3	3.0			G5
BL	(0°-30°)	2243.8	5.8	B3/2500		
BM	(30°-60°)	4031.7	10.3	B3/5000		
BH	(60°-80°)	1801.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	300.4	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°	6098.0	6098.0	6098.0	6098.0	6098.0	6098.0	6098.0	6098.0	6098.0	6098.0	6098.0
2.5°	5662.7	5641.1	5681.5	5686.9	5722.0	5735.4	5784.0	5859.4	5921.4	5992.8	6057.5
5°	5149.2	5134.4	5191.0	5231.4	5308.2	5340.6	5455.1	5615.5	5758.4	5920.1	6067.0
7.5°	4661.4	4653.3	4716.6	4808.3	4897.2	4941.7	5139.8	5372.9	5611.5	5872.9	6098.0
10°	4250.4	4247.7	4308.3	4398.6	4529.3	4579.2	4835.2	5142.5	5476.7	5836.5	6150.5
12.5°	4019.9	4029.4	4057.7	4133.1	4254.4	4304.3	4588.6	4949.8	5363.5	5824.4	6227.3
15°	4076.5	4091.4	4042.8	4040.1	4126.4	4165.5	4432.3	4812.3	5282.6	5844.6	6339.2
17.5°	4317.8	4320.4	4192.4	4111.6	4164.1	4184.3	4383.8	4734.2	5235.5	5890.4	6479.3
20°	4657.4	4650.6	4424.2	4289.5	4317.8	4323.1	4452.5	4735.5	5231.4	5969.9	6661.3
22.5°	5107.5	5057.6	4753.0	4569.8	4563.0	4554.9	4629.1	4835.2	5290.7	6099.3	6878.2
25°	5695.0	5647.8	5228.7	4978.1	4924.2	4904.0	4914.7	5048.2	5408.0	6238.1	7120.8
27.5°	6348.6	6266.4	5862.1	5507.7	5395.8	5367.5	5302.9	5348.7	5536.0	6371.5	7409.2
30°	6895.7	6851.3	6498.2	6077.7	5945.7	5905.2	5735.4	5685.6	5720.6	6553.4	7773.0
32.5°	7201.6	7172.0	6957.7	6618.1	6495.5	6438.9	6199.0	6099.3	6017.1	6840.5	8266.3
35°	7572.2	7553.4	7424.0	7177.4	6995.5	6936.2	6750.2	6646.4	6434.9	7235.3	8903.7
37.5°	8043.9	8023.7	8026.4	7826.9	7610.0	7554.7	7432.1	7322.9	6976.6	7754.2	9596.4
40°	8577.6	8538.5	8523.7	8514.2	8376.8	8345.8	8281.1	8132.8	7655.8	8374.1	10279.6
42.5°	9380.7	9241.9	8945.5	9057.3	9193.4	9177.2	9229.8	9016.9	8410.5	9107.2	10946.7
45°	10155.6	9927.9	9415.8	9440.0	9737.9	9828.1	10221.6	10070.7	9228.5	9910.3	11636.6
47.5°	10508.7	10336.2	9900.9	9902.3	10197.4	10384.7	11247.2	11139.4	10088.2	10822.7	12478.9
50°	10903.5	10731.0	10340.2	10487.1	10744.5	10944.0	12237.7	12182.4	10906.2	11821.3	13488.3
52.5°	11334.8	11042.3	10794.4	11057.2	11418.3	11650.1	13229.5	13078.6	11656.9	12826.6	14648.6
55°	11340.2	11260.7	11449.3	11642.0	12182.4	12466.8	14268.5	13869.6	12268.7	13814.4	15593.2
57.5°	11985.7	11856.3	12256.5	12345.5	13051.6	13372.4	15302.2	14558.3	12891.3	14571.7	16102.6
60°	12840.1	12729.6	13057.0	13291.5	14127.0	14555.6	16405.8	15265.8	13380.5	15143.1	16078.4
62.5°	14315.7	14190.4	14186.3	14515.1	15640.4	16139.0	17644.3	15959.8	13574.5	15256.3	15392.4
65°	16475.9	16276.5	15900.5	16056.8	17730.5	18227.8	19028.3	16462.4	13318.5	14649.9	13625.7
67.5°	18578.2	18571.5	18109.2	18430.0	20490.5	20889.4	20605.0	16512.3	12519.3	12538.2	10491.2
70°	20673.7	20700.7	20622.5	21738.4	24219.3	24634.4	22284.1	15842.5	10723.0	9054.6	6285.3
72.5°	22334.0	22327.3	22720.8	25597.9	29058.6	28965.6	23699.1	13813.0	7698.9	4887.8	3003.8
75°	21258.6	21024.1	22196.5	27508.8	31879.1	31425.0	22495.7	9635.4	3995.7	2224.9	1617.1
77.5°	13865.6	14088.0	15808.9	22724.8	27884.8	27332.3	16504.2	4495.6	1882.6	1459.5	1172.4
80°	5021.2	5255.7	7402.4	12872.4	19211.6	19121.3	8127.5	1847.6	1273.5	1102.3	854.4
82.5°	1727.6	1813.9	2920.3	5716.6	10846.9	11251.2	3057.7	1049.8	925.8	781.6	584.9
85°	677.8	776.2	1335.5	2750.5	5471.3	5511.7	1238.5	628.0	644.2	512.1	320.7
87.5°	257.4	312.6	638.8	1277.5	2498.5	2295.0	443.4	299.2	366.6	304.6	152.3
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°	6098.0	6098.0	6098.0	6098.0	6098.0	6098.0	6098.0	6098.0	6098.0	6098.0	6098.0
2.5°	6107.4	6135.7	6195.0	6235.4	6278.5	6290.7	6296.0	6306.8	6317.6	6313.6	6314.9
5°	6145.1	6200.4	6296.0	6336.5	6355.3	6333.8	6292.0	6258.3	6234.1	6220.6	6216.5
7.5°	6207.1	6285.3	6387.7	6380.9	6337.8	6242.1	6134.3	6053.5	5986.1	5961.8	5948.4
10°	6289.3	6380.9	6452.4	6375.6	6250.2	6084.5	5922.8	5797.4	5696.4	5657.3	5650.5
12.5°	6394.4	6487.4	6500.9	6337.8	6130.3	5903.9	5684.2	5518.5	5367.5	5319.0	5308.2
15°	6530.5	6618.1	6534.6	6271.8	5982.1	5677.5	5393.1	5168.1	5009.1	4949.8	4928.2
17.5°	6673.4	6756.9	6541.3	6162.6	5788.0	5409.3	5052.2	4821.8	4639.8	4571.1	4563.0
20°	6844.5	6882.3	6513.0	6006.3	5521.2	5061.6	4685.7	4468.7	4371.7	4323.1	4317.8
22.5°	7056.1	7015.7	6448.3	5794.7	5182.9	4660.0	4354.1	4253.1	4228.8	4218.0	4222.1
25°	7279.8	7155.8	6352.6	5518.5	4755.7	4258.5	4111.6	4139.9	4172.2	4168.2	4168.2
27.5°	7526.4	7298.7	6205.8	5151.9	4282.7	3929.6	3947.2	4050.9	4099.4	4098.1	4096.7
30°	7843.1	7460.4	6018.4	4711.3	3840.7	3697.9	3804.3	3931.0	3997.0	3994.3	3995.7
32.5°	8232.6	7638.3	5763.7	4219.4	3521.3	3526.7	3649.3	3774.7	3851.5	3844.7	3846.1
35°	8688.1	7837.7	5418.8	3734.2	3309.7	3390.6	3487.6	3575.2	3648.0	3638.6	3629.1
37.5°	9184.0	8033.1	4960.6	3300.3	3137.2	3263.9	3344.8	3359.6	3393.3	3369.0	3351.5
40°	9655.6	8182.7	4370.3	2944.5	2963.4	3156.1	3208.7	3149.4	3088.7	3080.6	3056.4
42.5°	10066.7	8232.6	3773.3	2660.2	2780.1	3042.9	3075.3	2951.3	2842.1	2790.9	2769.3
45°	10500.6	8250.1	3216.8	2421.7	2603.6	2941.8	2976.9	2811.1	2657.5	2547.0	2510.6
47.5°	11067.9	8376.8	2784.2	2245.1	2468.8	2874.5	2924.3	2699.3	2499.8	2342.2	2308.5
50°	11810.5	8627.4	2432.4	2110.4	2381.2	2830.0	2886.6	2590.1	2370.5	2180.4	2146.7
52.5°	12635.2	8857.9	2148.1	2001.2	2296.3	2751.8	2838.1	2512.0	2249.2	2030.9	1994.5
55°	13212.0	8681.3	1919.0	1888.0	2185.8	2640.0	2770.7	2445.9	2075.3	1885.3	1853.0
57.5°	13322.5	8077.6	1745.2	1770.8	2052.4	2499.8	2666.9	2299.0	1981.0	1822.0	1788.3
60°	13020.6	7236.7	1615.8	1663.0	1909.6	2323.3	2472.9	2195.3	1890.7	1754.6	1726.3
62.5°	12261.9	6375.6	1520.1	1565.9	1776.2	2144.1	2351.6	2086.1	1799.1	1677.8	1649.5
65°	10729.7	5352.7	1428.5	1479.7	1652.2	1989.1	2242.4	1985.0	1708.8	1615.8	1588.8
67.5°	8099.2	4009.1	1342.2	1388.0	1541.7	1854.3	2123.8	1885.3	1621.2	1561.9	1529.5
70°	4769.2	2510.6	1243.8	1292.4	1425.8	1714.2	1997.2	1776.2	1512.0	1485.1	1443.3
72.5°	2219.5	1510.7	1132.0	1179.2	1280.2	1526.8	1834.1	1633.3	1382.7	1323.4	1266.8
75°	1324.7	1105.0	999.9	1041.7	1113.1	1327.4	1629.3	1487.8	1260.0	1181.9	1122.6
77.5°	990.5	845.0	854.4	898.9	956.8	1161.6	1443.3	1373.2	1165.7	1105.0	1064.6
80°	712.9	641.5	696.7	745.2	805.9	1056.5	1382.7	1269.5	1053.8	973.0	935.2
82.5°	475.7	460.9	524.2	574.1	633.4	924.5	1299.1	1111.8	900.2	797.8	714.2
85°	262.8	277.6	353.1	374.6	425.8	650.9	1064.6	893.5	677.8	545.8	521.5
87.5°	109.2	128.0	190.0	183.3	226.4	388.1	700.8	539.0	431.2	322.1	250.7
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)