

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: P318792

Luminaire Tested: **GAN-SA8A-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318792
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-SA8A-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA 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: 37573 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

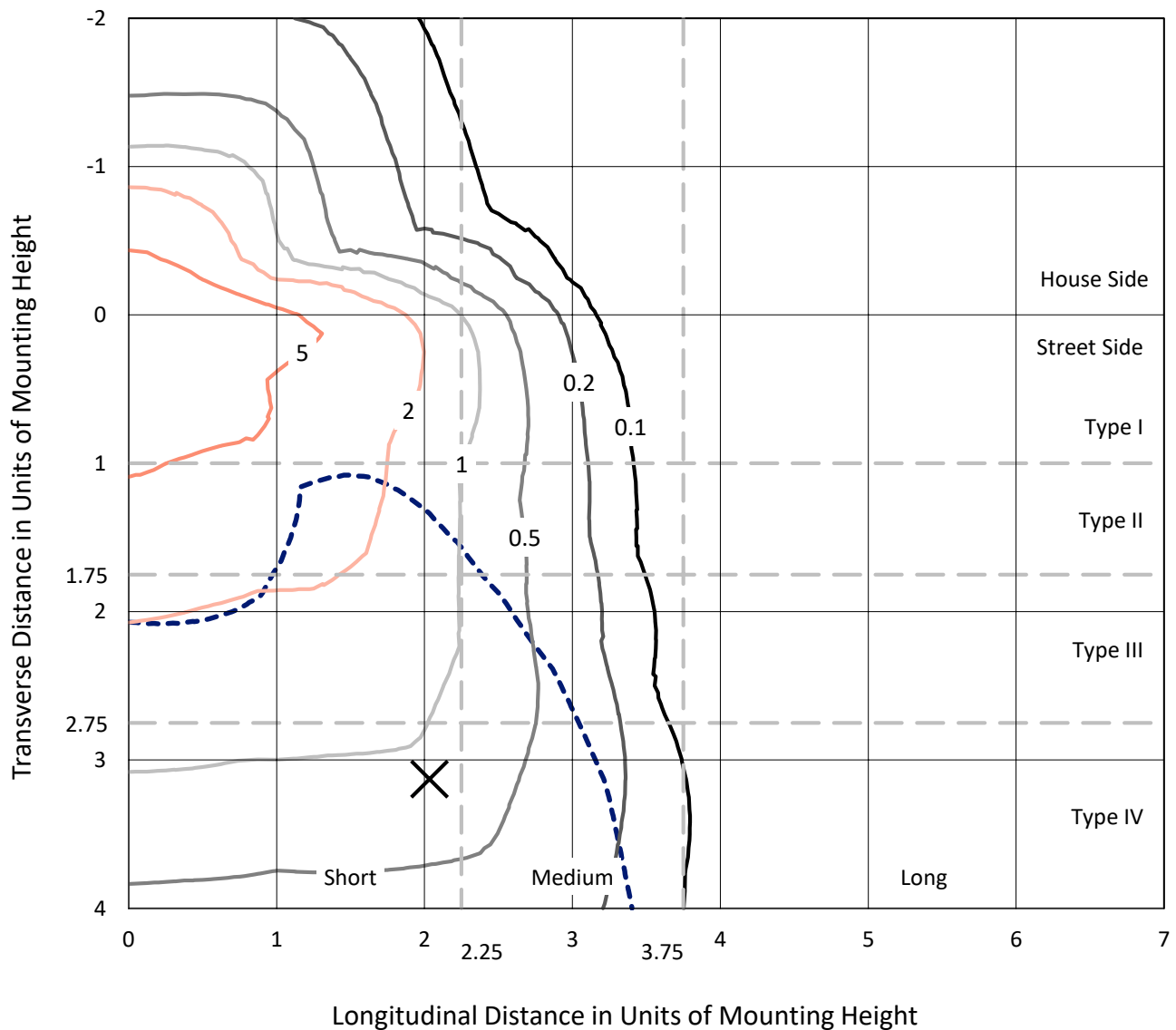
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

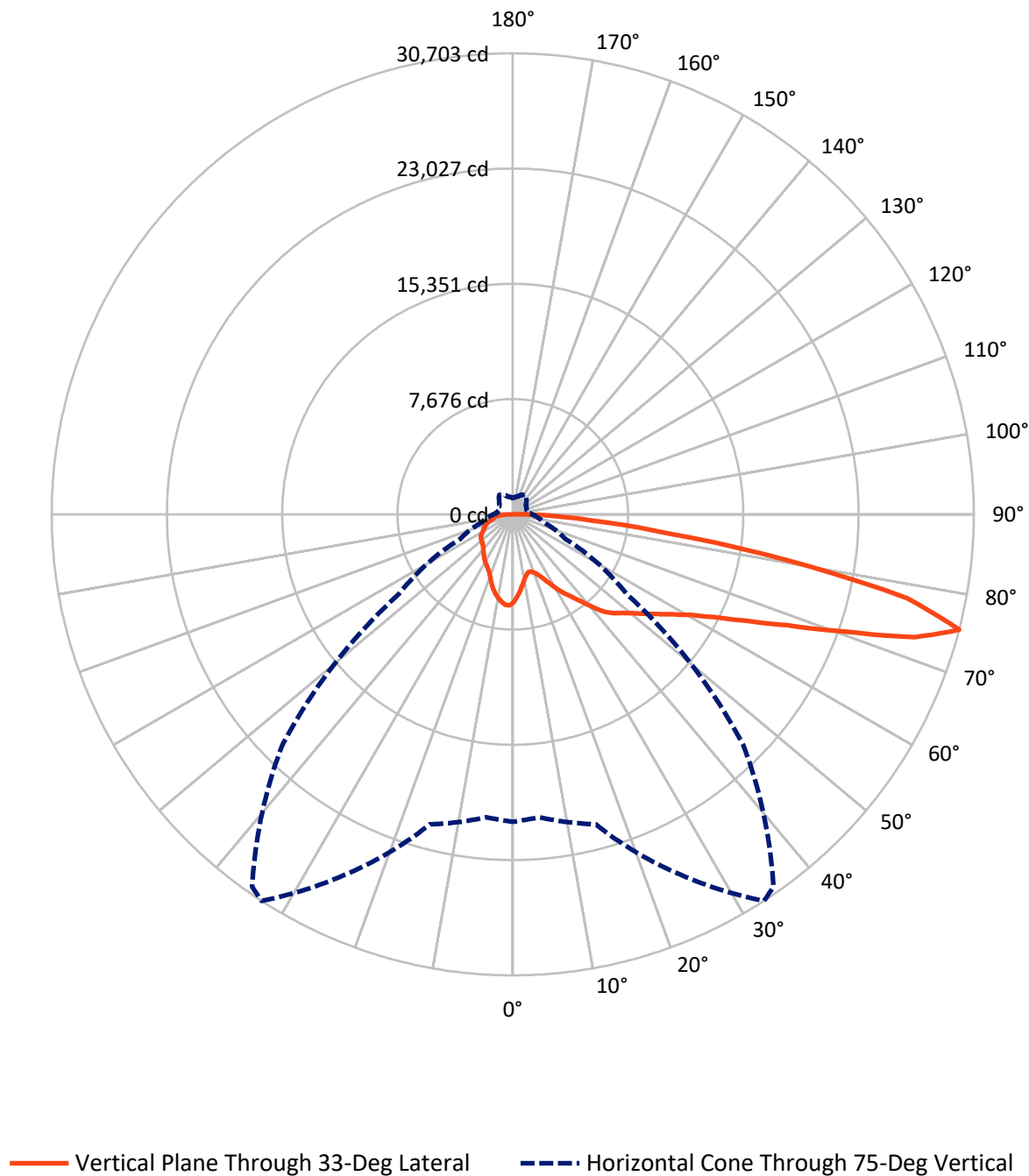
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	8067.9	0.0	8067.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	29505.1	0.0	29505.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	37573.0	0.0	37573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.1	1.4
10°-20°	1438.5	3.8
20°-30°	2349.3	6.3
30°-40°	3498.7	9.3
40°-50°	5018.0	13.4
50°-60°	6889.0	18.3
60°-70°	8624.7	23.0
70°-80°	7802.4	20.8
80°-90°	1421.2	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°	37573.0	100.0
0°-180°	37573.0	100.0

Coefficient of Utilization



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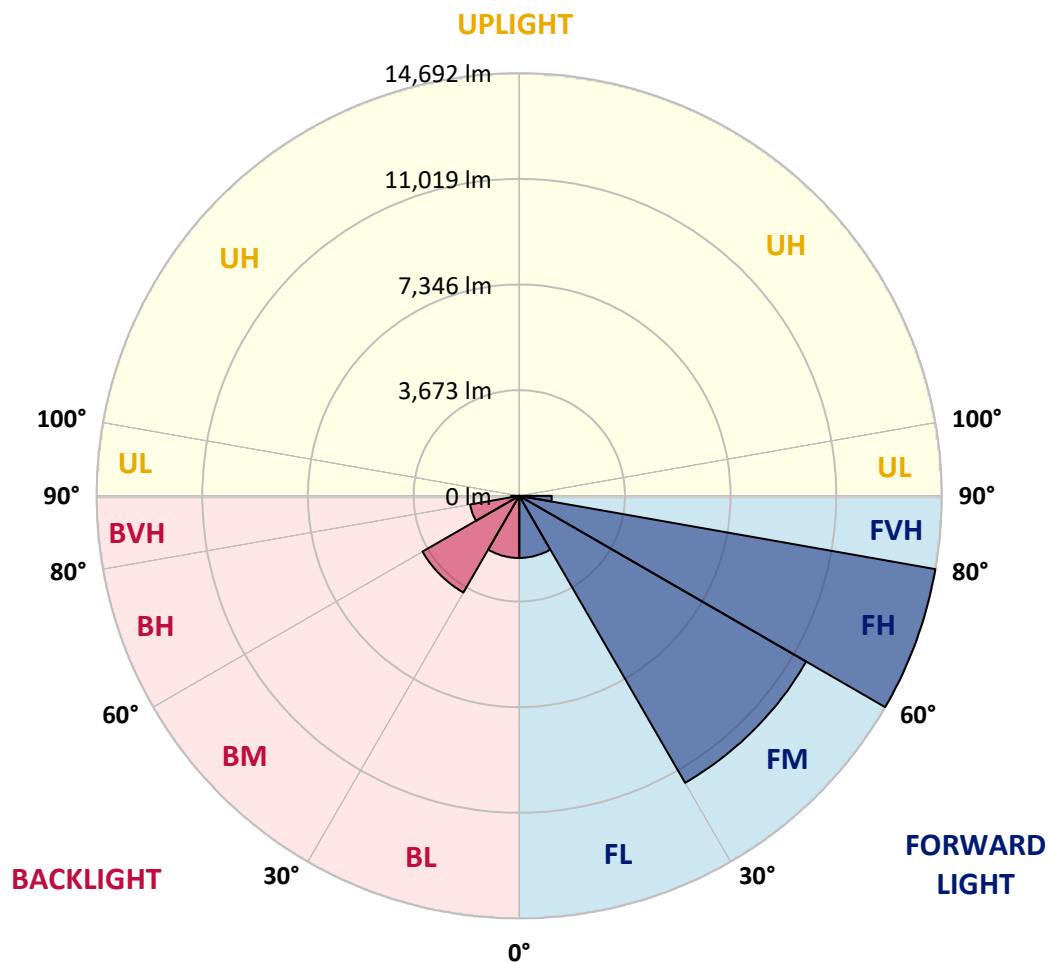
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2158.0	5.7			
FM	(30°-60°)	11522.9	30.7			
FH	(60°-80°)	14692.4	39.1			G5
FVH	(80°-90°)	1131.9	3.0			G5
BL	(0°-30°)	2161.0	5.8	B3/2500		
BM	(30°-60°)	3882.8	10.3	B3/5000		
BH	(60°-80°)	1734.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	289.3	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°	5872.9	5872.9	5872.9	5872.9	5872.9	5872.9	5872.9	5872.9	5872.9	5872.9	5872.9
2.5°	5453.7	5432.9	5471.8	5477.0	5510.8	5523.7	5570.5	5643.1	5702.8	5771.6	5833.9
5°	4959.2	4944.9	4999.4	5038.3	5112.3	5143.5	5253.8	5408.2	5545.8	5701.6	5843.0
7.5°	4489.3	4481.6	4542.6	4630.8	4716.5	4759.3	4950.1	5174.6	5404.3	5656.1	5872.9
10°	4093.5	4090.9	4149.3	4236.3	4362.1	4410.2	4656.8	4952.7	5274.6	5621.1	5923.5
12.5°	3871.6	3880.6	3907.9	3980.6	4097.4	4145.4	4419.3	4767.1	5165.5	5609.4	5997.5
15°	3926.1	3940.3	3893.6	3891.0	3974.1	4011.7	4268.7	4634.7	5087.7	5628.9	6105.2
17.5°	4158.4	4161.0	4037.7	3959.8	4010.4	4029.9	4222.0	4559.4	5042.2	5673.0	6240.2
20°	4485.4	4479.0	4260.9	4131.1	4158.4	4163.6	4288.2	4560.7	5038.3	5749.6	6415.4
22.5°	4918.9	4870.9	4577.6	4401.1	4394.6	4386.8	4458.2	4656.8	5095.4	5874.2	6624.3
25°	5484.8	5439.4	5035.7	4794.3	4742.4	4723.0	4733.3	4861.8	5208.4	6007.8	6858.0
27.5°	6114.3	6035.1	5645.7	5304.4	5196.7	5169.4	5107.1	5151.3	5331.7	6136.3	7135.7
30°	6641.2	6598.4	6258.3	5853.4	5726.2	5687.3	5523.7	5475.7	5509.5	6311.6	7486.1
32.5°	6935.8	6907.3	6700.9	6373.8	6255.7	6201.2	5970.2	5874.2	5795.0	6588.0	7961.1
35°	7292.7	7274.6	7150.0	6912.5	6737.3	6680.1	6501.0	6401.1	6197.3	6968.3	8575.0
37.5°	7747.0	7727.5	7730.1	7538.0	7329.1	7275.9	7157.8	7052.6	6719.1	7468.0	9242.1
40°	8261.0	8223.3	8209.0	8200.0	8067.6	8037.7	7975.4	7832.7	7373.2	8065.0	9900.2
42.5°	9034.5	8900.8	8615.3	8723.0	8854.1	8838.5	8889.1	8684.1	8100.0	8771.0	10542.6
45°	9780.8	9561.4	9068.2	9091.6	9378.4	9465.4	9844.4	9699.0	8887.8	9544.6	11207.1
47.5°	10120.8	9954.7	9535.5	9536.8	9821.0	10001.4	10832.0	10728.2	9715.9	10423.2	12018.3
50°	10501.1	10335.0	9958.6	10100.0	10347.9	10540.0	11786.0	11732.8	10503.7	11384.9	12990.4
52.5°	10916.4	10634.8	10396.0	10649.0	10996.9	11220.1	12741.2	12595.8	11226.6	12353.1	14107.9
55°	10921.6	10845.0	11026.7	11212.3	11732.8	12006.6	13741.9	13357.7	11815.8	13304.5	15017.7
57.5°	11543.3	11418.7	11804.1	11889.8	12569.9	12878.8	14737.3	14020.9	12415.4	14033.9	15508.3
60°	12366.1	12259.7	12575.1	12800.9	13605.6	14018.3	15800.3	14702.3	12886.6	14584.2	15484.9
62.5°	13787.3	13666.6	13662.7	13979.4	15063.1	15543.3	16993.0	15370.7	13073.5	14693.2	14824.3
65°	15867.8	15675.7	15313.6	15464.1	17076.1	17555.0	18326.0	15854.8	12826.9	14109.2	13122.8
67.5°	17892.5	17886.0	17440.8	17749.7	19734.1	20118.3	19844.5	15902.8	12057.2	12075.4	10103.9
70°	19910.7	19936.6	19861.3	20936.0	23325.4	23725.1	21461.6	15257.8	10327.2	8720.4	6053.3
72.5°	21509.6	21503.1	21882.1	24653.1	27986.0	27896.5	22824.4	13303.2	7414.7	4707.4	2893.0
75°	20473.9	20248.1	21377.2	26493.5	30702.5	30265.1	21665.4	9279.8	3848.2	2142.8	1557.4
77.5°	13353.8	13568.0	15225.3	21886.0	26855.6	26323.4	15895.0	4329.7	1813.1	1405.6	1129.1
80°	4835.9	5061.7	7129.2	12397.3	18502.5	18415.5	7827.5	1779.4	1226.5	1061.7	822.9
82.5°	1663.9	1746.9	2812.5	5505.6	10446.6	10835.9	2944.9	1011.0	891.6	752.8	563.3
85°	652.8	747.6	1286.2	2649.0	5269.4	5308.3	1192.7	604.8	620.4	493.2	308.9
87.5°	247.9	301.1	615.2	1230.4	2406.3	2210.3	427.0	288.1	353.0	293.3	146.7
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°	5872.9	5872.9	5872.9	5872.9	5872.9	5872.9	5872.9	5872.9	5872.9	5872.9	5872.9
2.5°	5882.0	5909.2	5966.3	6005.3	6046.8	6058.5	6063.7	6074.0	6084.4	6080.5	6081.8
5°	5918.3	5971.5	6063.7	6102.6	6120.8	6100.0	6059.8	6027.3	6004.0	5991.0	5987.1
7.5°	5978.0	6053.3	6151.9	6145.4	6103.9	6011.7	5907.9	5830.0	5765.1	5741.8	5728.8
10°	6057.2	6145.4	6214.2	6140.2	6019.5	5859.9	5704.1	5583.4	5486.1	5448.5	5442.0
12.5°	6158.4	6248.0	6260.9	6103.9	5904.0	5686.0	5474.4	5314.8	5169.4	5122.7	5112.3
15°	6289.5	6373.8	6293.4	6040.3	5761.3	5467.9	5194.1	4977.3	4824.2	4767.1	4746.3
17.5°	6427.1	6507.5	6299.9	5935.2	5574.4	5209.7	4865.7	4643.8	4468.6	4402.4	4394.6
20°	6591.9	6628.2	6272.6	5784.6	5317.4	4874.8	4512.7	4303.7	4210.3	4163.6	4158.4
22.5°	6795.7	6756.7	6210.3	5580.8	4991.6	4488.0	4193.4	4096.1	4072.7	4062.3	4066.2
25°	7011.1	6891.7	6118.2	5314.8	4580.2	4101.3	3959.8	3987.1	4018.2	4014.3	4014.3
27.5°	7248.6	7029.3	5976.7	4961.8	4124.6	3784.6	3801.5	3901.4	3948.1	3946.8	3945.5
30°	7553.6	7185.0	5796.3	4537.4	3698.9	3561.4	3663.9	3785.9	3849.5	3846.9	3848.2
32.5°	7928.7	7356.3	5551.0	4063.6	3391.3	3396.5	3514.6	3635.3	3709.3	3702.8	3704.1
35°	8367.4	7548.4	5218.7	3596.4	3187.6	3265.4	3358.9	3443.3	3513.3	3504.3	3495.2
37.5°	8845.0	7736.6	4777.5	3178.5	3021.4	3143.4	3221.3	3235.6	3268.0	3244.7	3227.8
40°	9299.3	7880.7	4209.0	2835.9	2854.0	3039.6	3090.2	3033.1	2974.7	2966.9	2943.6
42.5°	9695.1	7928.7	3634.0	2562.0	2677.5	2930.6	2961.7	2842.3	2737.2	2687.9	2667.1
45°	10113.0	7945.6	3098.0	2332.3	2507.5	2833.3	2867.0	2707.4	2559.4	2453.0	2417.9
47.5°	10659.4	8067.6	2681.4	2162.3	2377.7	2768.4	2816.4	2599.6	2407.6	2255.7	2223.3
50°	11374.5	8309.0	2342.7	2032.5	2293.3	2725.5	2780.0	2494.5	2283.0	2100.0	2067.5
52.5°	12168.8	8530.9	2068.8	1927.3	2211.6	2650.3	2733.3	2419.2	2166.1	1955.9	1920.9
55°	12724.3	8360.9	1848.2	1818.3	2105.1	2542.5	2668.4	2355.6	1998.7	1815.7	1784.6
57.5°	12830.8	7779.4	1680.7	1705.4	1976.7	2407.6	2568.5	2214.2	1907.9	1754.7	1722.3
60°	12540.0	6969.6	1556.1	1601.6	1839.1	2237.5	2381.6	2114.2	1820.9	1689.8	1662.6
62.5°	11809.3	6140.2	1464.0	1508.1	1710.6	2064.9	2264.8	2009.1	1732.7	1615.9	1588.6
65°	10333.7	5155.1	1375.7	1425.1	1591.2	1915.7	2159.7	1911.8	1645.7	1556.1	1530.2
67.5°	7800.2	3861.2	1292.7	1336.8	1484.8	1785.9	2045.4	1815.7	1561.3	1504.2	1473.1
70°	4593.2	2417.9	1197.9	1244.7	1373.1	1650.9	1923.4	1710.6	1456.2	1430.3	1390.0
72.5°	2137.6	1454.9	1090.2	1135.6	1233.0	1470.5	1766.4	1573.0	1331.6	1274.5	1220.0
75°	1275.8	1064.3	963.0	1003.3	1072.0	1278.4	1569.1	1432.9	1213.5	1138.2	1081.1
77.5°	953.9	813.8	822.9	865.7	921.5	1118.8	1390.0	1322.5	1122.7	1064.3	1025.3
80°	686.6	617.8	671.0	717.7	776.1	1017.5	1331.6	1222.6	1014.9	937.1	900.7
82.5°	458.1	443.9	504.9	552.9	610.0	890.3	1251.1	1070.7	867.0	768.3	687.9
85°	253.1	267.4	340.0	360.8	410.1	626.9	1025.3	860.5	652.8	525.6	502.3
87.5°	105.1	123.3	183.0	176.5	218.0	373.8	674.9	519.1	415.3	310.2	241.4
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)