

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: P317540

Luminaire Tested: **GAN-SA6D-760-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48346 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

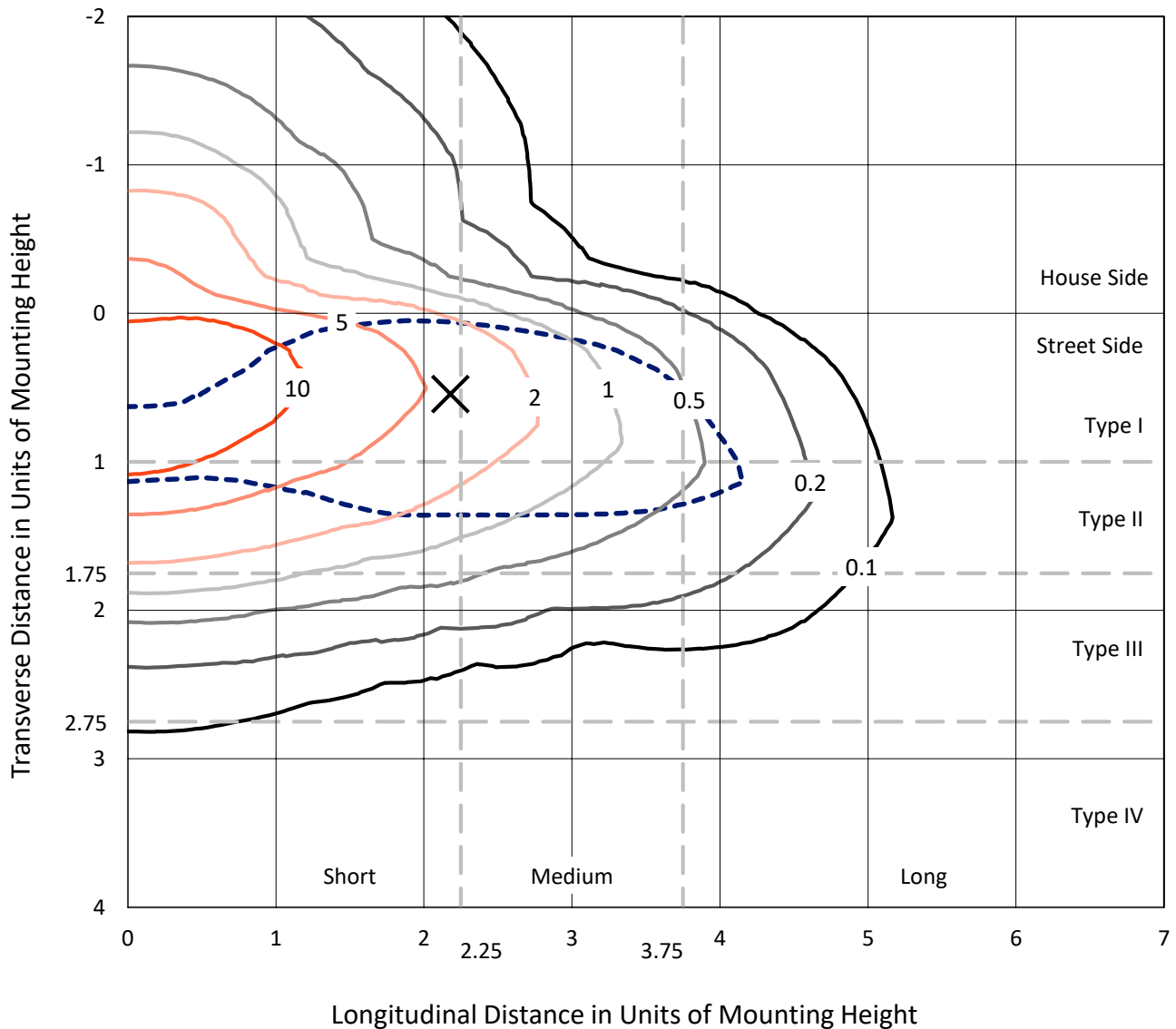
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

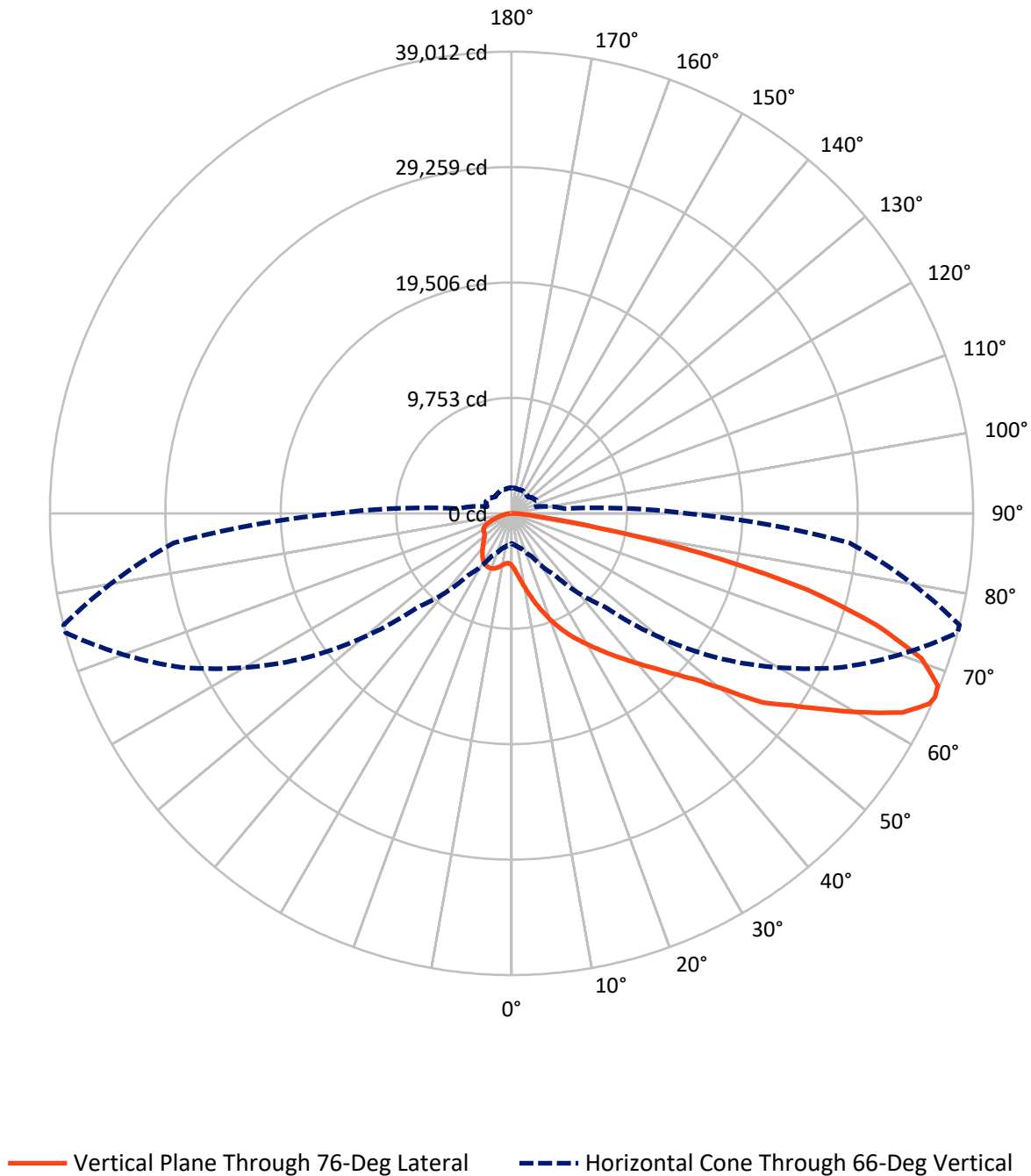
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8135.0	0.0	8135.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	40211.0	0.0	40211.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	48346.0	0.0	48346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.9	1.1
10°-20°	2108.3	4.4
20°-30°	4097.0	8.5
30°-40°	6687.3	13.8
40°-50°	9136.4	18.9
50°-60°	10642.1	22.0
60°-70°	9540.8	19.7
70°-80°	4821.5	10.0
80°-90°	778.6	1.6
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°	48346.0	100.0
0°-180°	48346.0	100.0

Coefficient of Utilization



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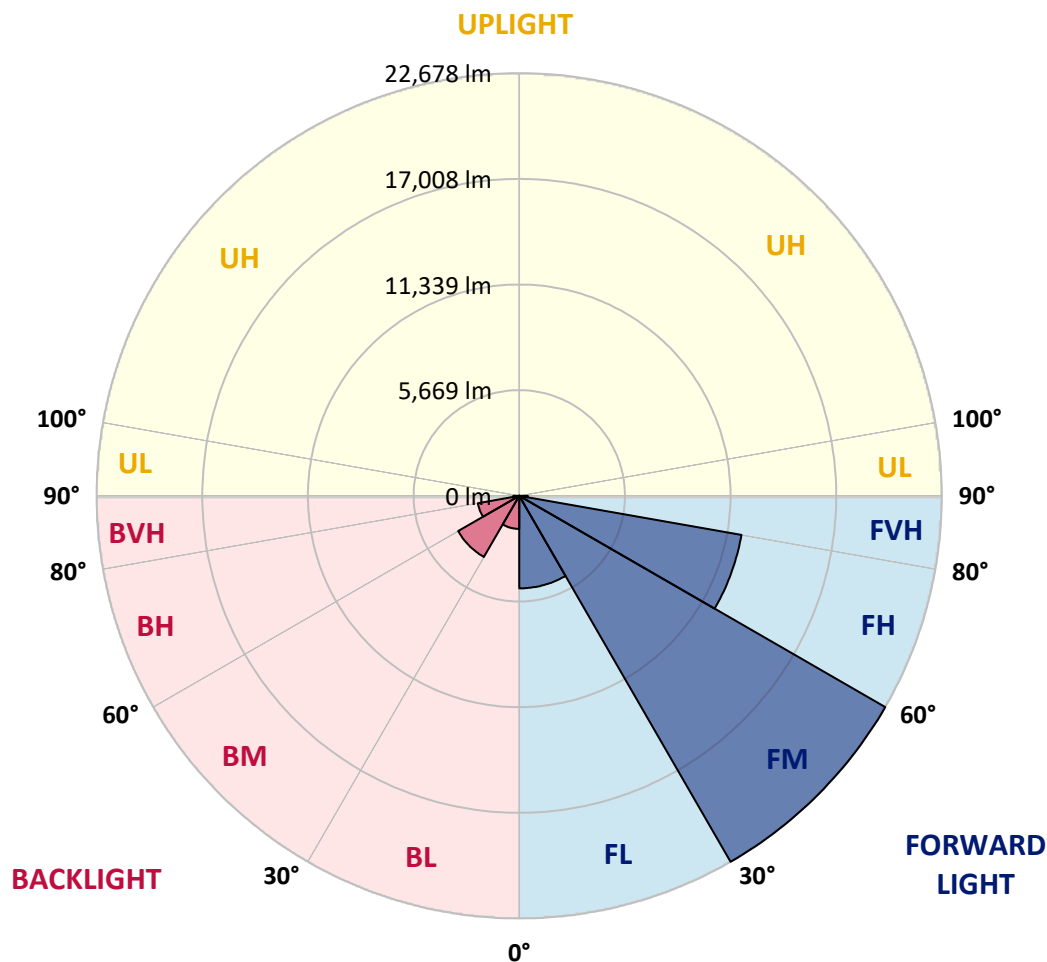
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4965.0	10.3			
FM	(30°-60°)	22677.6	46.9			
FH	(60°-80°)	12108.6	25.0			G5
FVH	(80°-90°)	459.8	1.0			G3/500
BL	(0°-30°)	1774.3	3.7	B3/2500		
BM	(30°-60°)	3788.1	7.8	B3/5000		
BH	(60°-80°)	2253.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	318.8	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4415.1	4415.1	4415.1	4415.1	4415.1	4415.1	4415.1	4415.1	4415.1	4415.1	4415.1
2.5°	5861.1	5772.4	5764.2	5634.6	5605.0	5357.2	5175.0	4984.6	4768.0	4725.3	4554.6
5°	7528.6	7520.4	7407.2	7195.4	7029.7	6606.2	6187.7	5744.5	5258.7	5179.9	4795.9
7.5°	9028.8	9015.6	8928.6	8700.5	8460.9	7940.6	7343.1	6663.7	5875.8	5759.3	5122.5
10°	10167.8	10162.9	10133.3	9965.9	9762.4	9263.5	8603.7	7676.3	6593.1	6433.9	5531.2
12.5°	11047.5	11057.4	11077.1	11018.0	10921.2	10496.1	9819.9	8749.7	7357.9	7200.4	5985.8
15°	11643.3	11672.9	11774.6	11858.3	11909.2	11648.3	10993.4	9847.8	8214.7	8025.9	6489.7
17.5°	11943.7	11976.5	12152.1	12404.9	12638.0	12611.7	12091.4	10894.9	9037.0	8854.8	7031.3
20°	12203.0	12227.6	12424.6	12728.2	13140.2	13322.4	13030.2	11902.7	9938.0	9721.4	7605.8
22.5°	12954.7	12985.9	13045.0	13217.3	13581.7	13916.5	13775.4	12856.3	10763.6	10561.7	8150.7
25°	14405.6	14443.4	14315.4	14169.3	14238.2	14471.3	14497.5	13726.1	11600.7	11372.5	8736.6
27.5°	16153.6	16207.8	15989.5	15613.6	15285.4	15195.1	15163.9	14438.5	12400.0	12135.7	9316.0
30°	17865.5	17959.0	17675.1	17187.6	16585.3	16161.8	15848.3	15136.0	13187.8	12935.0	9862.5
32.5°	19538.0	19500.2	19088.2	18612.3	17906.5	17376.4	16618.1	15884.4	14074.1	13783.6	10405.8
35°	20683.6	20696.7	20314.3	19749.7	19076.8	18669.7	17648.8	16692.0	14978.4	14710.9	11022.9
37.5°	21658.5	21597.8	21164.5	20637.6	20058.3	19884.3	18855.2	17581.5	15958.3	15666.1	11679.4
40°	21983.5	21912.9	21629.0	21249.8	20785.3	20770.6	20186.3	18589.3	17066.2	16777.3	12419.7
42.5°	21786.5	21696.3	21579.7	21476.3	21333.5	21399.2	21436.9	19771.0	18284.0	17960.7	13276.4
45°	21059.4	20923.2	21005.3	21230.1	21540.3	21911.3	22566.1	21079.1	19647.9	19377.1	14282.5
47.5°	19941.7	19818.6	20074.7	20555.6	21399.2	22338.0	23634.6	22523.5	21276.1	21006.9	15715.4
50°	18369.4	18405.5	18771.5	19646.3	20921.6	22535.0	24950.9	24435.6	23642.8	23391.7	17670.2
52.5°	15789.2	15795.8	16826.5	18262.7	20074.7	22433.2	25681.3	26879.5	26874.5	26570.9	19531.4
55°	13393.0	13539.0	14354.8	16263.6	18702.5	22026.2	26191.8	28067.8	28996.7	28640.6	21266.2
57.5°	11052.5	11137.8	11910.9	13827.9	16744.5	20941.3	26715.3	29494.0	31442.3	31217.4	23422.9
60°	8390.3	8521.6	9320.9	11091.9	14239.9	19016.0	26764.6	30982.7	34365.4	34138.9	25830.7
62.5°	5445.8	5672.3	6420.7	8080.1	11210.0	16247.2	25622.2	31956.0	37135.9	37055.5	27967.6
65°	3129.9	3300.6	3820.9	5101.1	7733.8	12770.9	22905.9	31581.8	38841.2	38795.3	28767.0
66°	2557.1	2663.8	3062.7	3986.7	6381.4	11215.0	21327.0	30792.3	39010.3	39011.9	28675.0
67.5°	2045.1	2092.6	2271.6	2854.2	4708.9	8889.2	18505.6	29050.9	38800.2	38857.6	28082.5
70°	1692.2	1716.8	1772.6	1913.7	2570.3	5360.5	13135.3	24525.9	36691.1	36735.4	25770.0
72.5°	1518.2	1533.0	1554.3	1574.0	1813.6	2995.4	8022.6	19620.0	32169.4	32226.8	22246.1
75°	1375.4	1383.6	1380.3	1382.0	1521.5	1908.8	4145.9	14648.5	26011.2	25896.3	17041.6
77.5°	1208.0	1216.2	1199.8	1203.1	1345.9	1467.3	2063.1	10254.8	17553.6	16742.8	9601.6
80°	1020.9	1027.4	1020.9	1032.4	1171.9	1107.9	1199.8	5769.1	7761.7	7341.5	3413.9
82.5°	771.4	799.3	819.0	865.0	965.1	787.8	802.6	2246.9	2363.5	2250.2	1047.1
85°	338.1	412.0	617.1	661.4	725.5	472.7	526.9	915.8	961.8	932.3	380.8
87.5°	88.6	96.8	305.3	384.1	402.1	213.4	274.1	416.9	439.9	416.9	126.4
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°	4415.1	4415.1	4415.1	4415.1	4415.1	4415.1	4415.1	4415.1	4415.1	4415.1	4415.1
2.5°	4464.3	4383.9	4239.5	4111.4	4014.6	3949.0	3883.3	3850.5	3830.8	3811.1	3814.4
5°	4607.1	4444.6	4196.8	4021.2	3922.7	3860.3	3827.5	3814.4	3806.2	3786.5	3786.5
7.5°	4822.1	4592.3	4251.0	4070.4	3993.3	3945.7	3926.0	3919.4	3909.6	3886.6	3889.9
10°	5092.9	4771.2	4364.2	4188.6	4118.0	4065.5	4037.6	4027.7	4009.7	3983.4	3986.7
12.5°	5411.3	4992.8	4513.6	4329.7	4244.4	4173.8	4127.9	4100.0	4068.8	4034.3	4035.9
15°	5759.3	5234.1	4674.4	4456.1	4339.6	4241.1	4167.2	4119.6	4070.4	4027.7	4026.1
17.5°	6112.2	5467.1	4797.5	4525.0	4367.5	4237.8	4137.7	4063.8	4003.1	3950.6	3945.7
20°	6493.0	5677.2	4866.4	4518.5	4315.0	4160.7	4027.7	3935.8	3868.5	3816.0	3807.8
22.5°	6880.3	5874.2	4877.9	4451.2	4198.4	4009.7	3870.2	3768.4	3699.5	3645.3	3625.6
25°	7234.8	6026.8	4830.3	4321.5	4035.9	3832.4	3696.2	3592.8	3537.0	3473.0	3453.3
27.5°	7558.2	6133.5	4735.1	4155.8	3853.8	3653.5	3525.5	3436.9	3376.1	3326.9	3310.5
30°	7848.7	6191.0	4579.2	3958.8	3666.7	3484.5	3376.1	3315.4	3262.9	3200.5	3189.0
32.5°	8124.4	6191.0	4379.0	3743.8	3481.2	3335.1	3271.1	3233.3	3174.3	3113.5	3097.1
35°	8400.1	6153.2	4142.6	3518.9	3310.5	3228.4	3225.1	3180.8	3090.6	3008.5	2987.2
37.5°	8690.7	6076.1	3876.7	3308.8	3171.0	3180.8	3208.7	3110.3	2982.2	2865.7	2834.5
40°	9018.9	5969.4	3601.0	3126.7	3054.4	3159.5	3164.4	3008.5	2759.0	2652.3	2624.4
42.5°	9404.6	5862.7	3345.0	2965.8	2962.5	3095.5	3080.7	2788.6	2639.2	2585.0	2570.3
45°	9911.8	5802.0	3102.0	2813.2	2890.3	2992.1	2937.9	2667.1	2604.7	2573.5	2560.4
47.5°	10711.1	5833.2	2878.8	2691.7	2818.1	2888.7	2672.0	2617.9	2573.5	2535.8	2522.7
50°	11712.3	5815.1	2698.3	2608.0	2736.0	2780.4	2552.2	2553.9	2530.9	2488.2	2468.5
52.5°	12465.6	5674.0	2581.8	2560.4	2663.8	2588.3	2476.7	2491.5	2480.0	2417.6	2396.3
55°	13192.7	5552.5	2522.7	2542.4	2611.3	2348.7	2388.1	2424.2	2412.7	2352.0	2342.1
57.5°	14097.1	5529.5	2486.6	2547.3	2567.0	2228.9	2302.7	2350.3	2342.1	2315.9	2310.9
60°	15204.9	5536.1	2453.7	2555.5	2517.7	2140.2	2222.3	2283.0	2288.0	2283.0	2279.8
62.5°	15813.9	5357.2	2371.7	2532.5	2430.8	2063.1	2138.6	2227.2	2228.9	2238.7	2237.1
65°	15296.9	4822.1	2219.0	2452.1	2284.7	1999.1	2066.4	2163.2	2138.6	2182.9	2182.9
66°	14794.6	4513.6	2143.5	2399.6	2222.3	1974.5	2043.4	2130.4	2099.2	2159.9	2159.9
67.5°	13768.8	3993.3	2007.3	2288.0	2133.7	1940.0	2017.2	2076.2	2033.6	2123.8	2117.3
70°	11894.5	3088.9	1733.2	2035.2	1987.6	1889.1	1981.0	1967.9	1905.5	2043.4	2017.2
72.5°	10028.3	2347.1	1391.8	1703.7	1766.0	1825.1	1930.2	1830.0	1751.3	1848.1	1790.7
75°	7781.4	1764.4	1099.7	1324.5	1491.9	1725.0	1869.4	1670.8	1557.6	1547.7	1516.6
77.5°	4206.6	1211.3	871.5	1011.0	1185.0	1600.3	1828.4	1500.1	1329.4	1290.1	1265.4
80°	1665.9	787.8	633.5	766.5	828.9	1419.7	1729.9	1301.5	1096.4	1057.0	1019.2
82.5°	687.7	466.1	408.7	513.7	540.0	1214.6	1552.7	1066.8	846.9	1171.9	1244.1
85°	295.4	256.0	242.9	265.9	305.3	851.8	1235.9	814.1	914.2	815.7	648.3
87.5°	88.6	108.3	103.4	101.8	111.6	203.5	658.2	453.0	671.3	254.4	190.4
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)