

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: P317584

Luminaire Tested: **GAN-SA0D-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317584
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-SA0D-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 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: 58817 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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



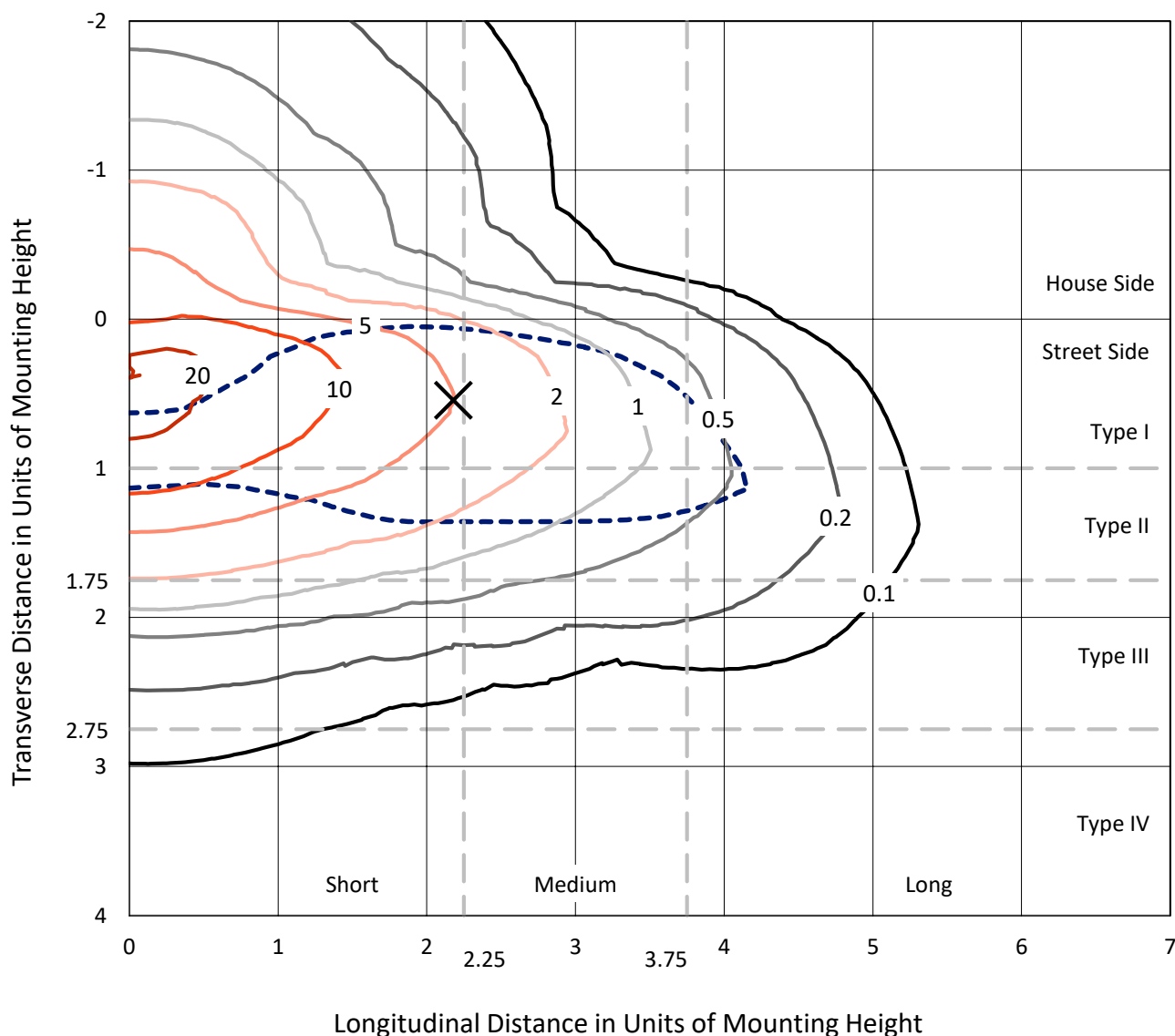
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

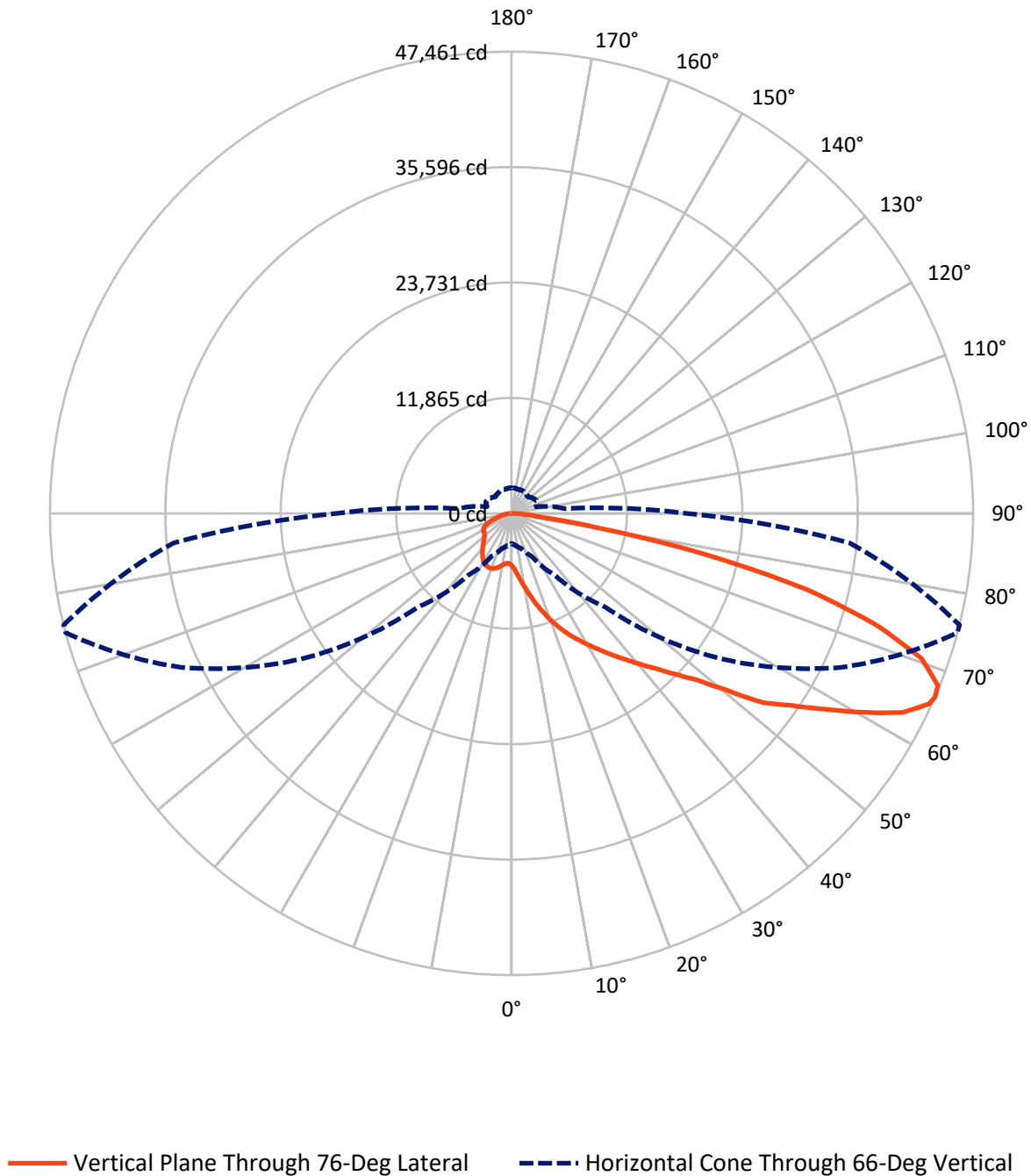


Based on 25 foot mounting height. Maximum calculated value = 22.8 fc

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	9896.9	0.0	9896.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	48920.1	0.0	48920.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	58817.0	0.0	58817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.5	1.1
10°-20°	2565.0	4.4
20°-30°	4984.4	8.5
30°-40°	8135.6	13.8
40°-50°	11115.2	18.9
50°-60°	12947.0	22.0
60°-70°	11607.2	19.7
70°-80°	5865.8	10.0
80°-90°	947.2	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°	58817.0	100.0
0°-180°	58817.0	100.0

Coefficient of Utilization



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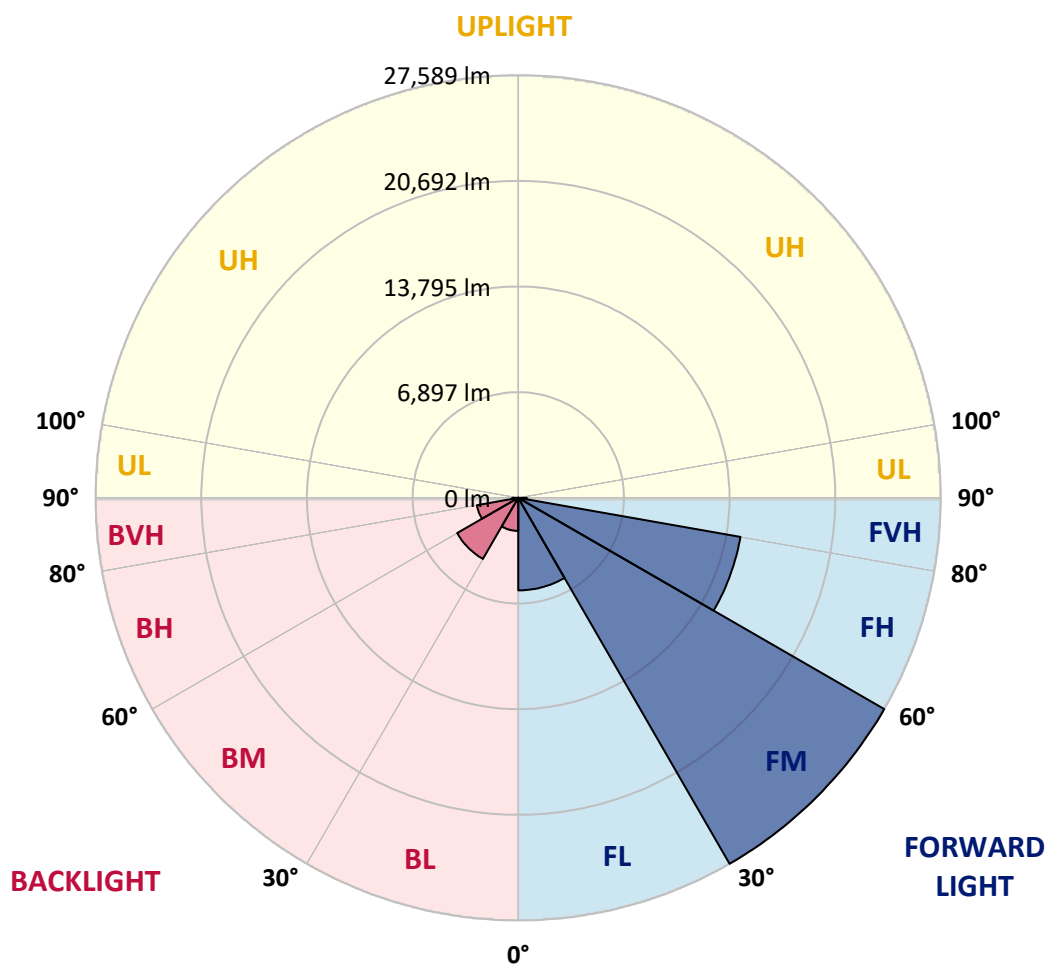
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6040.3	10.3			
FM	(30°-60°)	27589.3	46.9			
FH	(60°-80°)	14731.1	25.0			G5
FVH	(80°-90°)	559.4	1.0			G4/750
BL	(0°-30°)	2158.6	3.7	B3/2500		
BM	(30°-60°)	4608.6	7.8	B3/5000		
BH	(60°-80°)	2741.9	4.7	B4/5000		G4/5000
BVH	(80°-90°)	387.8	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5371.3	5371.3	5371.3	5371.3	5371.3	5371.3	5371.3	5371.3	5371.3	5371.3	5371.3
2.5°	7130.5	7022.6	7012.7	6854.9	6819.0	6517.5	6295.8	6064.2	5800.6	5748.7	5541.0
5°	9159.2	9149.2	9011.4	8753.9	8552.2	8037.0	7527.8	6988.7	6397.7	6301.8	5834.6
7.5°	10984.2	10968.3	10862.4	10584.9	10293.4	9660.4	8933.6	8106.9	7148.4	7006.7	6231.9
10°	12370.0	12364.0	12328.1	12124.4	11876.8	11269.8	10467.1	9338.9	8021.0	7827.3	6729.1
12.5°	13440.3	13452.3	13476.2	13404.3	13286.5	12769.4	11946.7	10644.8	8951.5	8759.8	7282.2
15°	14165.1	14201.0	14324.8	14426.7	14488.6	14171.1	13374.4	11980.6	9993.8	9764.2	7895.2
17.5°	14530.5	14570.5	14784.1	15091.6	15375.2	15343.2	14710.2	13254.6	10994.2	10772.6	8554.2
20°	14846.0	14876.0	15115.6	15485.0	15986.2	16207.8	15852.4	14480.6	12090.5	11826.9	9253.0
22.5°	15760.5	15798.5	15870.3	16080.0	16523.3	16930.6	16758.9	15640.7	13094.8	12849.2	9916.0
25°	17525.7	17571.6	17415.9	17238.1	17322.0	17605.5	17637.5	16699.0	14113.2	13835.6	10628.8
27.5°	19652.2	19718.1	19452.6	18995.3	18595.9	18486.1	18448.2	17565.6	15085.6	14764.1	11333.7
30°	21734.9	21848.7	21503.2	20910.2	20177.4	19662.2	19280.8	18414.2	16044.1	15736.6	11998.6
32.5°	23769.6	23723.7	23222.5	22643.4	21784.8	21139.8	20217.3	19324.8	17122.3	16768.9	12659.5
35°	25163.3	25179.3	24714.1	24027.2	23208.5	22713.3	21471.3	20307.2	18222.5	17897.1	13410.3
37.5°	26349.4	26275.5	25748.4	25107.4	24402.6	24190.9	22938.9	21389.4	19414.6	19059.2	14209.0
40°	26744.8	26658.9	26313.5	25852.2	25287.1	25269.2	24558.3	22615.4	20762.4	20411.0	15109.6
42.5°	26505.2	26395.3	26253.6	26127.8	25954.1	26033.9	26079.8	24053.1	22244.0	21850.7	16151.9
45°	25620.6	25454.9	25554.7	25828.3	26205.6	26656.9	27453.6	25644.6	23903.4	23573.9	17375.9
47.5°	24260.8	24111.0	24422.5	25007.6	26033.9	27176.1	28753.5	27401.7	25884.2	25556.7	19119.1
50°	22347.9	22391.8	22837.1	23901.4	25452.9	27415.7	30354.9	29728.0	28763.5	28458.0	21497.3
52.5°	19209.0	19216.9	20470.9	22218.1	24422.5	27291.9	31243.5	32701.1	32695.2	32325.8	23761.6
55°	16293.7	16471.4	17463.8	19786.0	22753.2	26796.7	31864.5	34146.8	35277.0	34843.7	25872.2
57.5°	13446.3	13550.1	14490.6	16822.8	20371.1	25476.8	32501.5	35882.0	38252.2	37978.6	28495.9
60°	10207.5	10367.2	11339.7	13494.2	17324.0	23134.6	32561.4	37693.1	41808.4	41532.9	31425.2
62.5°	6625.3	6900.8	7811.4	9830.1	13638.0	19766.1	31171.6	38877.2	45179.0	45081.1	34025.0
65°	3807.8	4015.5	4648.5	6206.0	9408.8	15536.9	27867.0	38421.9	47253.6	47197.7	34997.4
66°	3111.0	3240.8	3726.0	4850.2	7763.5	13643.9	25946.1	37461.5	47459.3	47461.3	34885.6
67.5°	2488.0	2545.9	2763.5	3472.4	5728.7	10814.5	22513.6	35342.9	47203.7	47273.6	34164.8
70°	2058.7	2088.6	2156.5	2328.2	3126.9	6521.5	15980.2	29837.8	44637.9	44691.8	31351.3
72.5°	1847.0	1865.0	1890.9	1914.9	2206.4	3644.1	9760.2	23869.4	39136.7	39206.6	27064.3
75°	1673.3	1683.3	1679.3	1681.3	1851.0	2322.2	5043.8	17821.2	31644.9	31505.1	20732.5
77.5°	1469.6	1479.6	1459.6	1463.6	1637.4	1785.1	2509.9	12475.8	21355.5	20369.1	11681.1
80°	1242.0	1250.0	1242.0	1256.0	1425.7	1347.8	1459.6	7018.7	9442.7	8931.6	4153.3
82.5°	938.5	972.4	996.4	1052.3	1174.1	958.5	976.4	2733.6	2875.4	2737.6	1273.9
85°	411.3	501.2	750.8	804.7	882.6	575.1	641.0	1114.2	1170.1	1134.2	463.3
87.5°	107.8	117.8	371.4	467.2	489.2	259.6	333.5	507.2	535.1	507.2	153.8
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°	5371.3	5371.3	5371.3	5371.3	5371.3	5371.3	5371.3	5371.3	5371.3	5371.3	5371.3
2.5°	5431.2	5333.4	5157.7	5001.9	4884.1	4804.2	4724.4	4684.4	4660.5	4636.5	4640.5
5°	5604.9	5407.3	5105.7	4892.1	4772.3	4696.4	4656.5	4640.5	4630.5	4606.6	4606.6
7.5°	5866.5	5587.0	5171.6	4952.0	4858.1	4800.2	4776.3	4768.3	4756.3	4728.4	4732.4
10°	6196.0	5804.6	5309.4	5095.8	5009.9	4946.0	4912.1	4900.1	4878.1	4846.2	4850.2
12.5°	6583.4	6074.2	5491.1	5267.5	5163.7	5077.8	5021.9	4987.9	4950.0	4908.1	4910.1
15°	7006.7	6367.7	5686.8	5421.2	5279.5	5159.7	5069.8	5011.9	4952.0	4900.1	4898.1
17.5°	7436.0	6651.2	5836.6	5505.1	5313.4	5155.7	5033.9	4944.0	4870.1	4806.2	4800.2
20°	7899.2	6906.8	5920.4	5497.1	5249.5	5061.8	4900.1	4788.3	4706.4	4642.5	4632.5
22.5°	8370.5	7146.4	5934.4	5415.2	5107.7	4878.1	4708.4	4584.6	4500.7	4434.8	4410.9
25°	8801.8	7332.1	5876.5	5257.5	4910.1	4662.5	4496.7	4370.9	4303.0	4225.2	4201.2
27.5°	9195.1	7461.9	5760.7	5055.8	4688.4	4444.8	4289.1	4181.2	4107.4	4047.5	4027.5
30°	9548.6	7531.8	5571.0	4816.2	4460.8	4239.1	4107.4	4033.5	3969.6	3893.7	3879.7
32.5°	9884.0	7531.8	5327.4	4554.6	4235.2	4057.4	3979.6	3933.6	3861.8	3787.9	3767.9
35°	10219.5	7485.9	5039.9	4281.1	4027.5	3927.7	3923.7	3869.7	3759.9	3660.1	3634.1
37.5°	10572.9	7392.1	4716.4	4025.5	3857.8	3869.7	3903.7	3783.9	3628.1	3486.4	3448.4
40°	10972.3	7262.3	4380.9	3803.9	3716.0	3843.8	3849.8	3660.1	3356.6	3226.8	3192.8
42.5°	11441.5	7132.5	4069.4	3608.2	3604.2	3765.9	3747.9	3392.5	3210.8	3144.9	3126.9
45°	12058.5	7058.6	3773.9	3422.5	3516.3	3640.1	3574.2	3244.8	3168.9	3130.9	3115.0
47.5°	13030.9	7096.5	3502.3	3274.7	3428.5	3514.3	3250.7	3184.9	3130.9	3085.0	3069.0
50°	14249.0	7074.6	3282.7	3172.9	3328.6	3382.5	3105.0	3107.0	3079.0	3027.1	3003.1
52.5°	15165.5	6902.8	3140.9	3115.0	3240.8	3148.9	3013.1	3031.1	3017.1	2941.2	2915.3
55°	16050.1	6755.1	3069.0	3093.0	3176.9	2857.4	2905.3	2949.2	2935.3	2861.4	2849.4
57.5°	17150.3	6727.1	3025.1	3099.0	3123.0	2711.6	2801.5	2859.4	2849.4	2817.4	2811.5
60°	18498.1	6735.1	2985.2	3109.0	3063.0	2603.8	2703.6	2777.5	2783.5	2777.5	2773.5
62.5°	19238.9	6517.5	2885.3	3081.0	2957.2	2509.9	2601.8	2709.6	2711.6	2723.6	2721.6
65°	18609.9	5866.5	2699.6	2983.2	2779.5	2432.1	2513.9	2631.7	2601.8	2655.7	2655.7
66°	17998.9	5491.1	2607.8	2919.3	2703.6	2402.1	2486.0	2591.8	2553.9	2627.8	2627.8
67.5°	16750.9	4858.1	2442.1	2783.5	2595.8	2360.2	2454.0	2525.9	2474.0	2583.8	2575.8
70°	14470.6	3757.9	2108.6	2476.0	2418.1	2298.3	2410.1	2394.1	2318.3	2486.0	2454.0
72.5°	12200.3	2855.4	1693.3	2072.7	2148.5	2220.4	2348.2	2226.4	2130.6	2248.4	2178.5
75°	9466.7	2146.5	1337.8	1611.4	1815.1	2098.6	2274.3	2032.7	1894.9	1883.0	1845.0
77.5°	5117.7	1473.6	1060.3	1230.0	1441.7	1946.9	2224.4	1825.1	1617.4	1569.5	1539.5
80°	2026.7	958.5	770.8	932.5	1008.4	1727.2	2104.6	1583.4	1333.8	1285.9	1240.0
82.5°	836.6	567.1	497.2	625.0	656.9	1477.6	1888.9	1297.9	1030.3	1425.7	1513.6
85°	359.4	311.5	295.5	323.5	371.4	1036.3	1503.6	990.4	1112.2	992.4	788.7
87.5°	107.8	131.8	125.8	123.8	135.8	247.6	800.7	551.1	816.7	309.5	231.6
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)