

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: P318223

Luminaire Tested: **GAN-SA9D-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50041 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 575
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

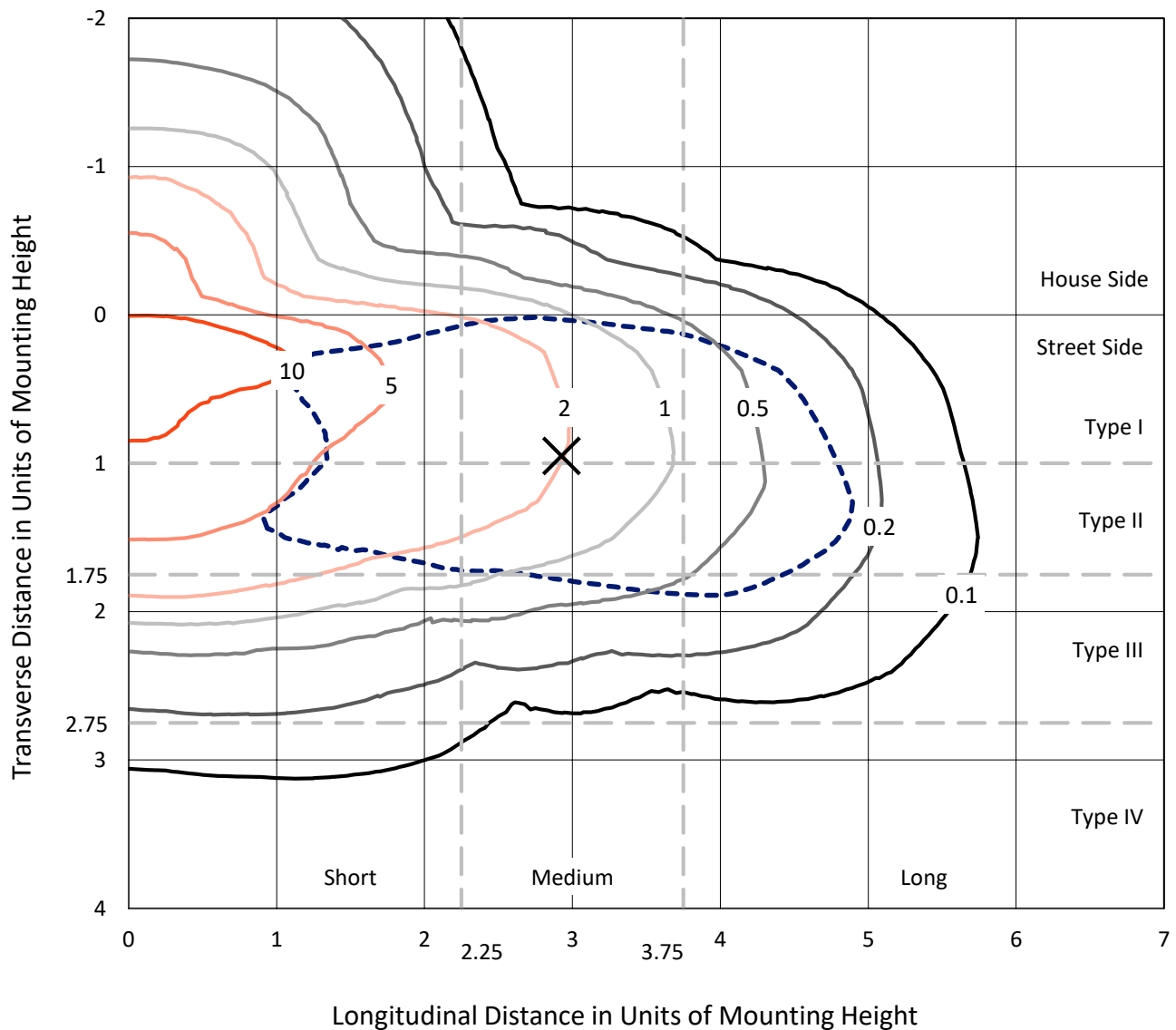


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Iso-Footcandle Lines of Horizontal Illumination

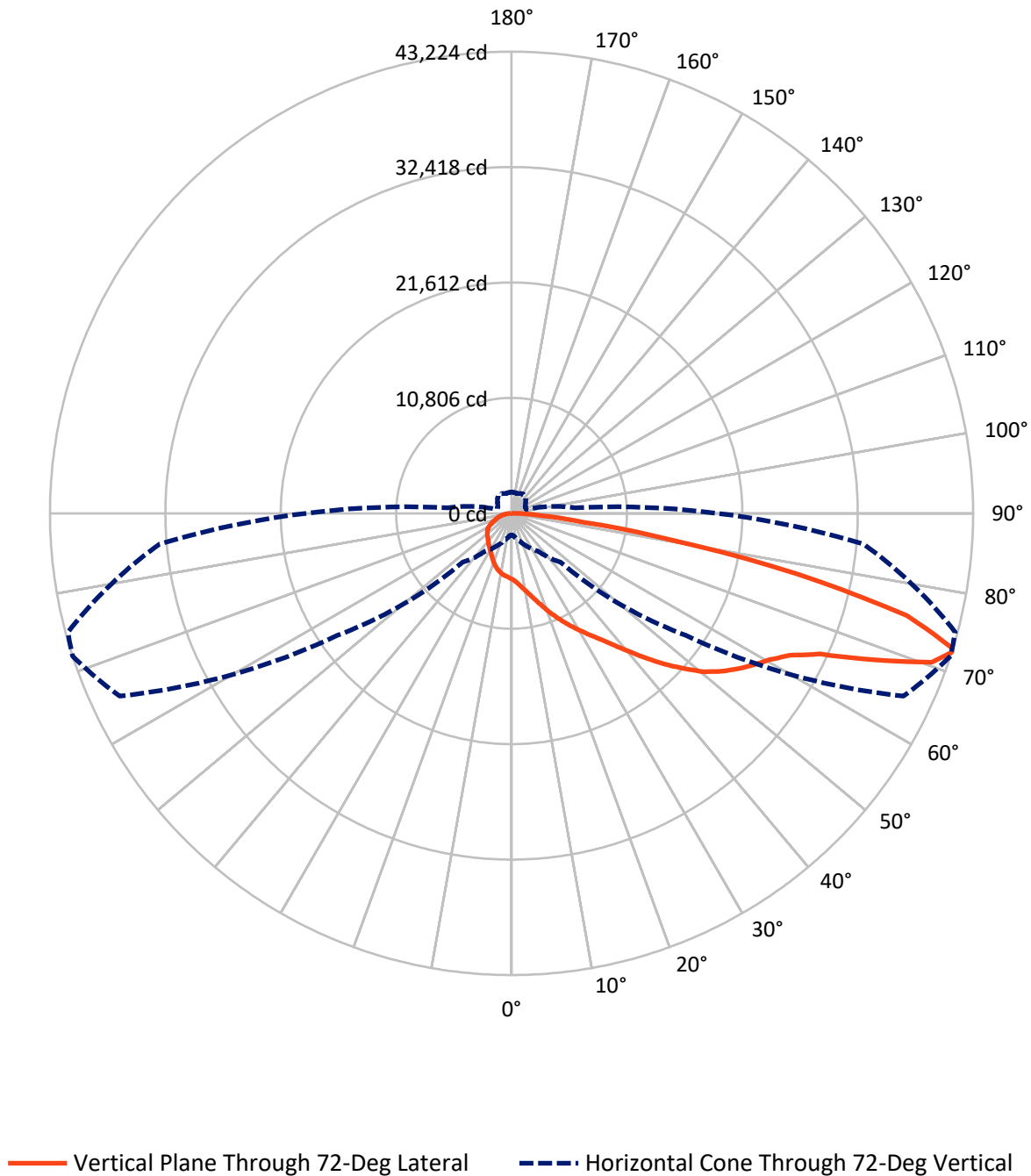
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9282.9	0.0	9282.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	40758.1	0.0	40758.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	50041.0	0.0	50041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.9	1.2
10°-20°	1993.5	4.0
20°-30°	3493.2	7.0
30°-40°	5179.3	10.4
40°-50°	7575.2	15.1
50°-60°	10423.3	20.8
60°-70°	11604.3	23.2
70°-80°	7863.0	15.7
80°-90°	1292.4	2.6
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°	50041.0	100.0
0°-180°	50041.0	100.0

Coefficient of Utilization



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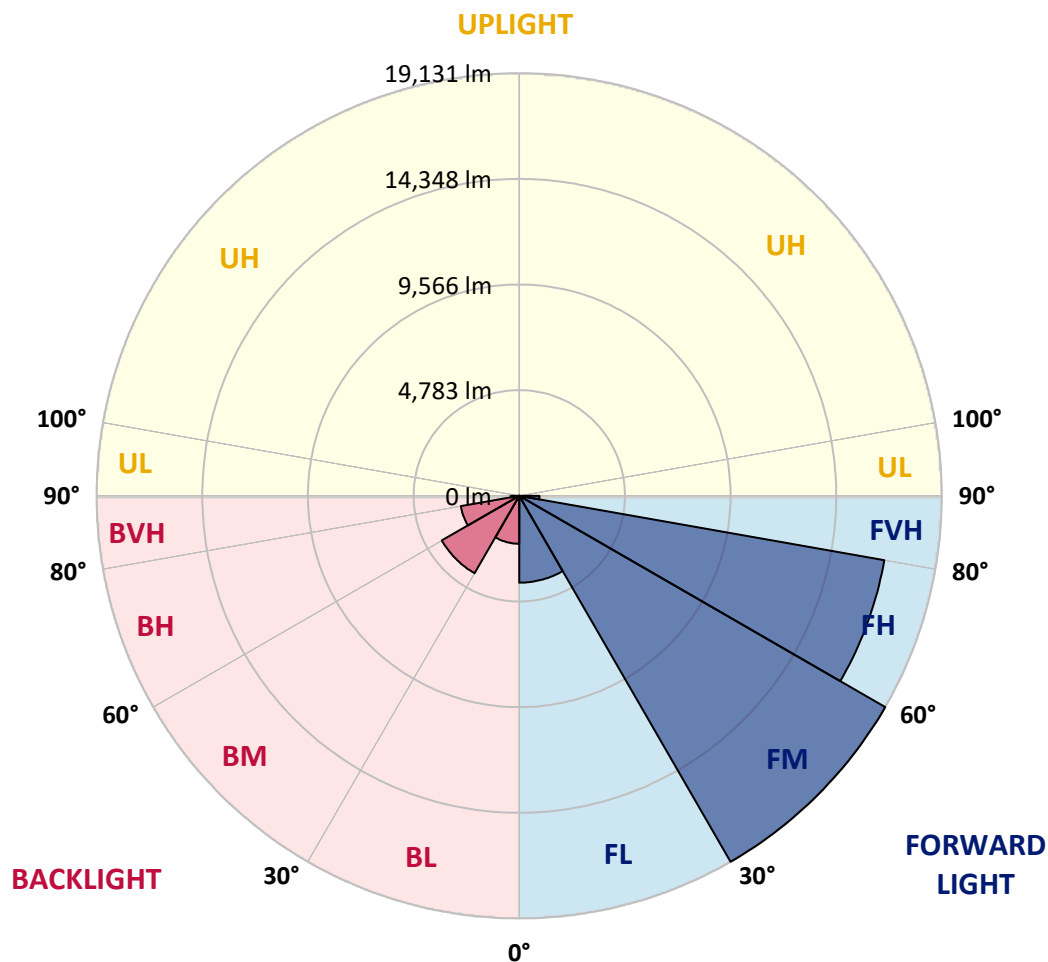
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3933.5	7.9			
FM	(30°-60°)	19131.3	38.2			
FH	(60°-80°)	16781.6	33.5			G5
FVH	(80°-90°)	911.6	1.8			G5
BL	(0°-30°)	2170.0	4.3	B3/2500		
BM	(30°-60°)	4046.5	8.1	B3/5000		
BH	(60°-80°)	2685.7	5.4	B4/5000		G4/5000
BVH	(80°-90°)	380.8	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6156.3	6156.3	6156.3	6156.3	6156.3	6156.3	6156.3	6156.3	6156.3	6156.3	6156.3
2.5°	6800.8	6790.4	6754.2	6754.2	6685.3	6626.7	6516.5	6442.4	6354.5	6323.5	6220.1
5°	7459.0	7462.4	7417.6	7386.6	7284.9	7160.9	6973.1	6802.5	6631.9	6563.0	6351.0
7.5°	8012.0	8005.1	7993.1	7967.2	7872.5	7745.0	7491.7	7238.4	6986.8	6883.5	6518.2
10°	8367.0	8382.5	8392.8	8404.9	8365.3	8273.9	8034.4	7726.0	7396.9	7255.6	6718.1
12.5°	8546.2	8573.7	8622.0	8704.7	8770.2	8759.8	8585.8	8258.4	7867.3	7689.8	6967.9
15°	8651.3	8687.5	8763.3	8911.5	9095.8	9200.9	9154.4	8858.0	8422.1	8203.3	7272.9
17.5°	8716.8	8746.0	8863.2	9061.4	9335.3	9614.4	9736.8	9488.7	9049.3	8799.5	7622.6
20°	8761.6	8784.0	8930.4	9163.0	9518.0	9962.5	10303.7	10241.6	9740.2	9416.3	7987.9
22.5°	8861.5	8880.4	9020.0	9254.3	9647.2	10221.0	10849.9	10942.9	10469.1	10102.1	8379.0
25°	9140.6	9140.6	9257.8	9421.5	9790.2	10444.9	11311.6	11723.4	11213.4	10786.1	8740.9
27.5°	9673.0	9667.9	9710.9	9767.8	10046.9	10672.4	11723.4	12412.6	11985.3	11518.4	9092.4
30°	10303.7	10338.1	10343.3	10315.7	10446.7	10956.7	12104.2	13139.7	12762.4	12259.3	9452.5
32.5°	11115.2	11137.6	11111.8	11020.4	11001.5	11359.9	12478.1	13901.3	13603.2	13032.9	9781.6
35°	12145.6	12102.5	12021.5	11835.4	11657.9	11899.2	12905.4	14662.9	14547.5	13968.5	10234.7
37.5°	13250.0	13251.7	13151.8	12729.7	12485.0	12588.4	13494.7	15526.1	15689.8	15081.6	10815.4
40°	14135.7	14182.2	14244.2	13689.4	13372.4	13515.4	14244.2	16527.2	17040.7	16401.4	11571.8
42.5°	14754.2	14807.6	14983.4	14635.3	14306.2	14571.6	15126.4	17595.5	18556.9	17924.6	12457.4
45°	15409.0	15438.3	15562.3	15412.4	15202.2	15800.1	16120.6	18701.7	20161.1	19547.7	13448.2
47.5°	16098.2	16129.2	16256.7	16156.8	16046.5	16947.6	17157.8	19744.1	21698.0	21331.0	14506.1
50°	16949.3	16970.0	17090.6	16909.7	16944.2	17812.6	18084.8	20700.4	23309.0	22933.4	15567.5
52.5°	18110.7	18115.8	18283.0	18119.3	17957.3	18446.6	18882.6	21601.5	24572.0	24394.5	16628.9
55°	19020.4	19075.5	19623.5	19589.0	19496.0	19022.1	19549.4	22459.6	25698.8	25783.3	17755.7
57.5°	18439.8	18655.1	19764.8	20547.0	21308.6	20454.0	20450.5	23426.2	26746.4	27146.2	18994.6
60°	16149.9	16442.8	18077.9	19813.0	22195.9	22945.5	22321.7	24606.4	27804.4	28497.0	20547.0
62.5°	11533.9	12016.3	14232.1	17002.8	20979.5	24596.1	26129.6	26479.4	29243.1	30061.5	22564.7
65°	5830.7	6196.0	8053.4	11390.9	16761.5	23517.5	30268.3	30580.1	31743.2	32470.3	25671.3
67.5°	3542.5	3680.4	4586.7	6335.5	10276.1	18319.1	31619.1	37415.4	36581.4	36967.4	30101.1
70°	2610.4	2712.0	3277.2	4207.6	5910.0	10749.9	27473.5	42293.2	41745.3	41702.2	33374.9
72°	2033.2	2107.3	2606.9	3399.5	4321.3	6449.3	19912.9	40492.7	43223.7	43006.6	33075.1
72.5°	1928.1	1993.5	2448.4	3199.6	4083.6	5846.2	17903.9	39278.0	43116.8	43018.6	32687.4
75°	1518.0	1564.5	1812.6	2474.3	3196.2	3316.8	9810.9	30438.9	38249.3	39839.7	29399.9
77.5°	1256.1	1263.0	1393.9	1800.6	2491.5	2345.0	4819.3	21119.0	27389.1	29138.0	20826.1
80°	1023.5	1032.1	1094.1	1263.0	1885.0	1735.1	2288.2	12143.8	15334.9	15353.8	9903.9
82.5°	815.0	816.7	885.6	923.5	1354.3	1240.6	1311.2	5701.5	6700.8	6445.8	3559.8
85°	573.8	561.7	865.0	758.1	885.6	796.0	723.7	2257.2	2770.6	2650.0	1114.8
87.5°	191.3	198.1	384.2	491.1	516.9	451.4	322.2	865.0	1045.9	1037.3	353.2
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°	6156.3	6156.3	6156.3	6156.3	6156.3	6156.3	6156.3	6156.3	6156.3	6156.3	6156.3
2.5°	6187.4	6132.2	6051.2	5961.6	5891.0	5818.6	5765.2	5737.7	5706.6	5680.8	5711.8
5°	6252.8	6149.5	5977.2	5808.3	5684.2	5574.0	5494.7	5453.4	5415.5	5389.6	5393.1
7.5°	6359.7	6192.5	5903.1	5656.7	5484.4	5365.5	5284.5	5256.9	5232.8	5225.9	5234.5
10°	6473.4	6227.0	5804.9	5477.5	5281.1	5182.8	5146.7	5165.6	5182.8	5198.3	5215.6
12.5°	6602.6	6258.0	5661.8	5267.3	5100.1	5062.2	5098.4	5181.1	5241.4	5277.6	5300.0
15°	6771.5	6285.6	5496.4	5057.1	4945.1	4988.1	5110.5	5253.5	5358.6	5425.8	5436.1
17.5°	6926.5	6283.9	5284.5	4845.1	4819.3	4945.1	5129.4	5331.0	5472.3	5567.1	5586.0
20°	7086.8	6237.3	5038.1	4638.4	4691.8	4898.5	5138.0	5381.0	5551.6	5661.8	5687.7
22.5°	7236.7	6156.3	4767.6	4450.6	4585.0	4836.5	5105.3	5351.7	5522.3	5611.9	5639.4
25°	7338.3	6015.1	4493.6	4292.0	4490.2	4760.7	4998.5	5196.6	5324.1	5368.9	5375.8
27.5°	7390.0	5830.7	4235.2	4154.2	4392.0	4636.6	4800.3	4898.5	4934.7	4931.3	4924.4
30°	7396.9	5587.8	4012.9	4042.2	4278.3	4454.0	4531.5	4512.6	4466.1	4386.8	4393.7
32.5°	7374.5	5313.8	3826.8	3935.4	4133.5	4231.7	4235.2	4143.9	4019.8	3894.0	3859.6
35°	7381.4	5045.0	3663.1	3814.8	3957.8	4000.9	3961.2	3826.8	3658.0	3496.0	3461.5
37.5°	7457.2	4810.7	3521.9	3675.2	3763.1	3773.4	3716.6	3575.3	3451.2	3292.7	3278.9
40°	7638.1	4643.5	3387.5	3518.4	3568.4	3573.5	3492.6	3392.6	3403.0	3318.5	3316.8
42.5°	7963.8	4571.2	3268.6	3354.7	3385.7	3396.1	3334.0	3270.3	3359.9	3304.8	3285.8
45°	8384.2	4588.4	3168.6	3194.5	3251.3	3299.6	3261.7	3184.1	3218.6	2979.1	2899.8
47.5°	8870.1	4698.7	3089.4	3056.6	3154.8	3246.2	3187.6	3070.4	2948.1	2710.3	2665.5
50°	9438.7	4869.3	3017.0	2920.5	3049.7	3173.8	3115.2	2948.1	2763.7	2648.3	2632.8
52.5°	10031.4	5077.7	2944.6	2770.6	2917.1	3118.7	3089.4	2920.5	2693.1	2579.4	2558.7
55°	10703.4	5287.9	2853.3	2596.6	2774.1	3092.8	3077.3	2820.6	2639.7	2575.9	2560.4
57.5°	11539.1	5527.4	2732.7	2415.7	2639.7	2999.8	2951.5	2760.3	2584.5	2536.3	2531.1
60°	12628.0	5880.7	2558.7	2222.7	2476.0	2856.8	2846.4	2672.4	2496.7	2462.2	2455.3
62.5°	14261.4	6464.8	2319.2	2029.7	2293.3	2613.8	2708.6	2553.5	2403.6	2401.9	2405.3
65°	16794.3	7343.5	2059.0	1860.9	2109.0	2408.8	2548.3	2431.2	2308.8	2343.3	2348.5
67.5°	19730.3	8072.3	1804.0	1695.5	1921.2	2214.1	2403.6	2308.8	2183.1	2272.7	2274.4
70°	20707.2	7421.0	1580.0	1531.8	1726.5	2026.3	2246.8	2174.5	2046.9	2136.5	2127.9
72°	19270.2	5990.9	1435.3	1407.7	1580.0	1871.2	2107.3	2048.7	1922.9	1983.2	1960.8
72.5°	18817.1	5711.8	1399.1	1376.7	1540.4	1831.6	2071.1	2017.7	1891.9	1943.6	1922.9
75°	16785.7	4960.6	1202.7	1207.8	1344.0	1638.6	1867.8	1850.5	1721.3	1726.5	1719.6
77.5°	12174.9	3637.3	1013.1	1047.6	1144.1	1440.4	1662.7	1652.4	1511.1	1485.2	1480.1
80°	5649.8	1855.7	825.3	840.8	940.8	1204.4	1418.0	1404.3	1290.5	1257.8	1238.9
82.5°	1935.0	882.2	620.3	630.6	728.8	970.1	1230.2	1221.6	1126.9	1063.1	1023.5
85°	690.9	439.4	434.2	423.9	520.4	763.3	1071.7	1025.2	885.6	754.7	751.2
87.5°	224.0	187.8	224.0	222.3	303.3	516.9	778.8	663.4	642.7	534.1	523.8
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)