

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: P320902

Luminaire Tested: **GAN-SA8D-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53351 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

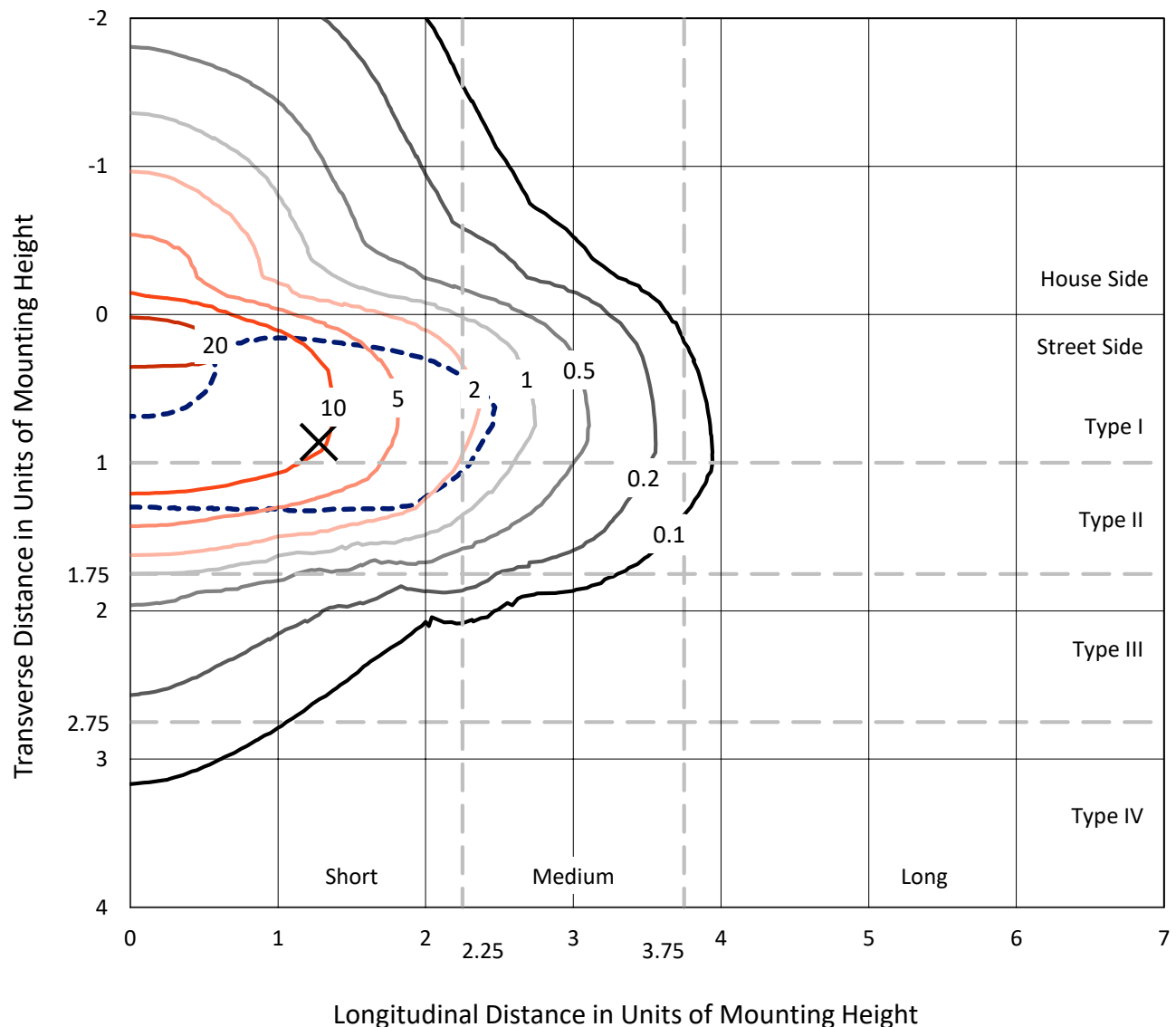
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

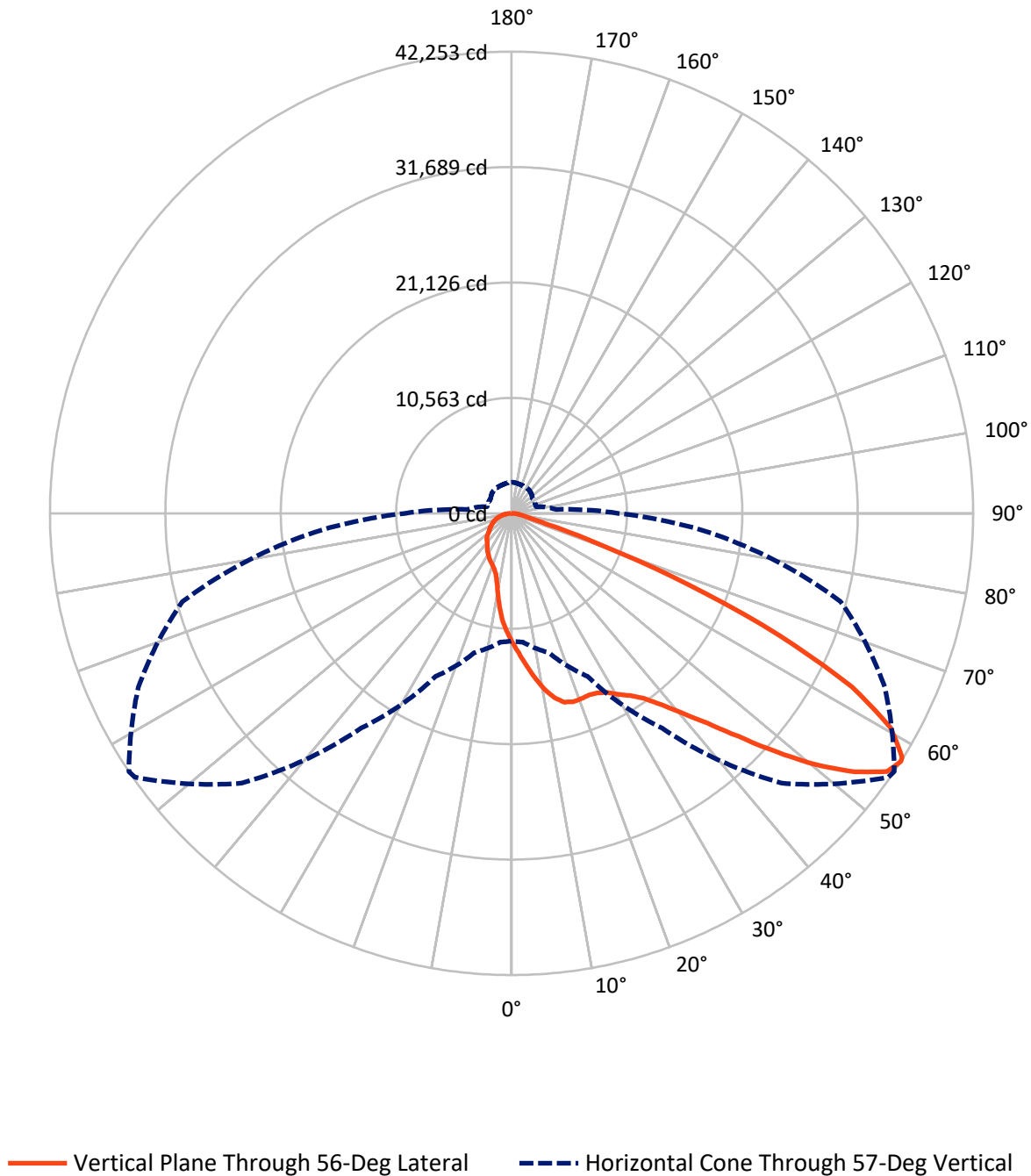
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.2 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	9196.6	0.0	9196.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	44154.4	0.0	44154.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	53351.0	0.0	53351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1130.4	2.1
10°-20°	3195.8	6.0
20°-30°	5205.4	9.8
30°-40°	7781.5	14.6
40°-50°	11802.9	22.1
50°-60°	13229.0	24.8
60°-70°	7813.5	14.6
70°-80°	2560.0	4.8
80°-90°	632.5	1.2
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°	53351.0	100.0
0°-180°	53351.0	100.0

Coefficient of Utilization



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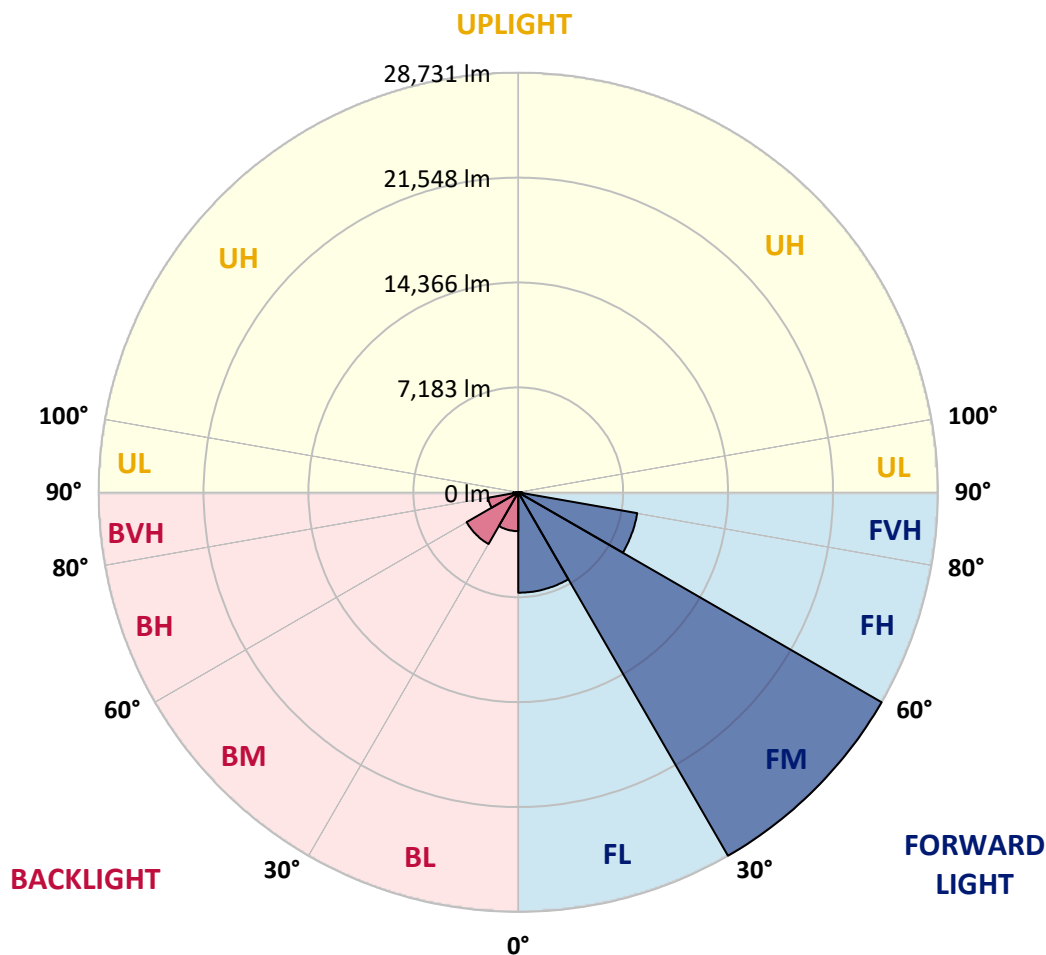
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6872.4	12.9			
FM	(30°-60°)	28731.3	53.9			
FH	(60°-80°)	8272.2	15.5			G4/12000
FVH	(80°-90°)	278.5	0.5			G3/500
BL	(0°-30°)	2659.2	5.0	B4/5000		
BM	(30°-60°)	4082.1	7.7	B3/5000		
BH	(60°-80°)	2101.3	3.9	B3/2500		G3/2500
BVH	(80°-90°)	354.0	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3
2.5°	13587.9	13712.6	13657.6	13466.9	13320.3	13113.1	12882.1	12812.4	12568.5	12295.3	11967.1
5°	15738.6	15676.3	15586.4	15289.4	14975.9	14611.0	14031.6	13940.0	13397.3	12779.4	12126.7
7.5°	16963.4	16957.9	16904.7	16730.5	16444.5	15967.8	15269.2	15161.1	14341.5	13347.8	12335.7
10°	16785.5	16772.7	16860.7	17042.2	17128.4	17029.4	16440.8	16332.7	15326.1	13976.6	12577.7
12.5°	15775.3	15782.6	15923.8	16305.2	16824.0	17447.4	17352.1	17298.9	16347.3	14688.0	12871.1
15°	14988.7	15005.2	15117.1	15448.9	16061.3	17192.6	17905.8	17924.1	17335.6	15472.8	13213.9
17.5°	14644.0	14678.9	14730.2	14963.1	15524.1	16684.7	18037.8	18136.8	18201.0	16286.8	13543.9
20°	14754.0	14787.0	14801.7	14950.2	15410.4	16376.7	17946.1	18124.0	18864.7	17053.2	13874.0
22.5°	15247.2	15267.4	15276.6	15315.1	15672.6	16464.7	17885.6	18072.6	19345.1	17740.8	14123.3
25°	16065.0	16050.3	15991.6	15942.1	16182.3	16813.0	18025.0	18202.8	19735.6	18364.2	14286.5
27.5°	17044.1	17025.7	16912.0	16776.4	16913.9	17355.8	18426.5	18567.7	20085.8	18947.2	14369.0
30°	18219.3	18171.7	17957.1	17795.8	17849.0	18169.8	19088.4	19216.7	20626.7	19609.1	14449.7
32.5°	19577.9	19526.6	19216.7	18949.0	18949.0	19216.7	19770.4	19876.8	21085.1	20357.2	14579.9
35°	21279.4	21215.2	20811.9	20362.7	20236.2	20371.8	20700.0	20775.2	21910.1	21299.6	14816.4
37.5°	23285.2	23199.1	22676.5	22075.1	21798.3	21790.9	22027.5	22181.5	23228.4	22537.2	15217.9
40°	25296.6	25236.1	24779.5	24306.5	23763.8	23589.6	23954.5	24002.1	24951.9	24073.6	15731.3
42.5°	26851.4	26840.4	26756.0	26818.4	26262.8	25910.8	26196.8	26235.3	27056.7	25736.6	16277.7
45°	27672.8	27691.1	28100.0	29005.7	29211.1	28954.4	29095.5	29106.5	29462.2	27414.2	16778.2
47.5°	27014.5	27109.9	28144.0	30170.0	31851.3	32703.8	32469.2	32604.8	31794.4	28855.4	17170.6
50°	24449.5	24566.8	26327.0	29651.1	33083.4	36332.3	36209.5	36178.3	33675.6	29911.4	17383.3
52.5°	21272.1	21363.7	22815.9	26954.0	32179.5	38338.1	39465.7	39304.4	35347.7	30701.7	17423.6
55°	16433.5	16576.5	17968.1	21570.9	28523.5	37571.7	41860.3	41715.4	36871.3	31116.0	17375.9
57°	11683.0	11833.3	13215.7	16462.8	23994.8	34918.7	42098.6	42252.6	37694.6	31185.7	17429.1
57.5°	10425.2	10579.2	11948.8	15102.4	22583.0	33959.8	41893.3	42149.9	37843.1	31174.7	17458.4
60°	5249.3	5307.9	6180.7	8430.4	14275.5	27454.6	39214.5	39876.4	37976.9	30635.7	17584.9
62.5°	3263.6	3221.4	3193.9	3883.3	6945.2	18206.5	33686.6	34960.9	35415.6	29330.2	17278.7
65°	2869.4	2790.6	2488.0	2433.0	3067.4	8842.9	25368.1	26954.0	29942.6	27273.1	16549.0
67.5°	2695.2	2618.2	2277.2	2071.8	2073.7	3505.6	15749.6	17535.4	23325.6	23794.9	14827.4
70°	2515.5	2445.9	2126.8	1884.8	1765.6	1941.7	7245.9	8600.9	15205.1	18703.4	12392.5
72.5°	2284.5	2236.8	1934.3	1685.0	1558.5	1454.0	2774.1	3276.4	8802.6	12561.2	8606.4
75°	2042.5	1998.5	1740.0	1501.6	1347.6	1144.1	1562.1	1683.1	4471.9	6426.4	4237.2
77.5°	1776.6	1751.0	1547.5	1327.4	1204.6	947.9	1105.6	1164.3	1917.8	2755.7	2125.0
80°	1413.6	1463.1	1353.1	1182.6	1068.9	759.1	782.9	821.4	1116.6	1345.8	1206.4
82.5°	920.4	1006.6	1059.8	960.7	880.1	597.7	562.9	579.4	727.9	821.4	524.4
85°	383.2	430.9	696.7	628.9	584.9	436.4	377.7	385.0	451.0	467.5	214.5
87.5°	170.5	181.5	306.2	287.9	247.5	150.3	161.3	176.0	240.2	227.4	82.5
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°	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3	11833.3
2.5°	11844.3	11690.3	11426.3	11134.7	10896.4	10705.7	10513.2	10381.2	10227.2	10144.7	10102.5
5°	11853.5	11550.9	10995.4	10425.2	9915.5	9449.8	9006.1	8665.0	8346.0	8173.7	8126.0
7.5°	11892.0	11437.3	10538.9	9600.1	8694.4	7867.5	7229.4	6829.7	6541.9	6413.5	6376.9
10°	11923.1	11303.4	9974.1	8584.4	7352.3	6514.4	6019.3	5795.6	5696.6	5680.1	5663.6
12.5°	11996.5	11165.9	9380.1	7524.6	6309.0	5729.6	5557.3	5542.6	5570.1	5610.5	5610.5
15°	12112.0	11030.2	8701.7	6615.2	5645.3	5441.8	5476.6	5557.3	5632.5	5694.8	5704.0
17.5°	12196.3	10863.4	7972.0	5887.3	5291.4	5346.4	5471.1	5584.8	5661.8	5722.3	5727.8
20°	12256.8	10604.9	7192.8	5331.8	5087.9	5258.4	5414.3	5515.1	5568.3	5628.8	5638.0
22.5°	12225.7	10258.3	6501.5	4933.9	4922.9	5130.1	5278.6	5399.6	5359.3	5300.6	5339.1
25°	12075.3	9781.6	5790.1	4636.9	4748.7	4957.7	5141.1	5060.4	4924.7	4899.1	4913.7
27.5°	11807.6	9172.9	5131.9	4361.9	4547.0	4798.2	4787.2	4706.6	4658.9	4625.9	4646.0
30°	11519.8	8512.9	4556.2	4121.7	4323.4	4530.5	4488.4	4486.5	4438.9	4385.7	4411.4
32.5°	11235.6	7849.1	4099.7	3923.7	4154.7	4182.2	4273.8	4301.4	4207.8	4096.0	4088.7
35°	10988.1	7222.1	3753.1	3744.0	3951.2	3954.8	4088.7	4050.2	3817.3	3701.8	3701.8
37.5°	10802.9	6596.9	3489.1	3582.6	3683.5	3778.8	3846.6	3687.1	3648.6	3584.5	3582.6
40°	10722.2	6046.8	3324.1	3459.8	3494.6	3615.6	3441.4	3503.8	3522.1	3489.1	3489.1
42.5°	10637.9	5568.3	3181.1	3366.3	3360.8	3344.3	3256.3	3336.9	3410.3	3412.1	3406.6
45°	10553.5	5155.8	3054.6	3166.4	3243.4	3065.6	3082.1	3168.3	3270.9	3307.6	3307.6
47.5°	10460.0	4829.4	2939.1	2955.6	3074.8	2955.6	2942.7	3008.7	3129.8	3188.4	3201.3
50°	10254.7	4536.0	2807.1	2770.4	2803.4	2843.7	2854.7	2885.9	3019.7	3113.3	3135.3
52.5°	9970.5	4273.8	2638.4	2599.9	2599.9	2752.1	2803.4	2812.6	2926.2	3038.1	3060.1
55°	9734.0	4107.0	2464.2	2456.9	2449.5	2654.9	2742.9	2757.6	2836.4	2924.4	2935.4
57°	9750.5	4094.2	2330.4	2337.7	2335.9	2555.9	2686.1	2717.2	2757.6	2832.7	2845.6
57.5°	9759.6	4103.3	2301.0	2304.7	2302.9	2528.4	2669.6	2704.4	2735.6	2814.4	2827.2
60°	9897.1	4127.2	2181.8	2141.5	2150.7	2381.7	2576.0	2620.0	2640.2	2744.7	2761.2
62.5°	9693.6	4020.8	2086.5	1989.3	1989.3	2227.7	2445.9	2515.5	2546.7	2687.9	2715.4
65°	9103.2	3722.0	1974.7	1817.0	1835.3	2073.7	2290.0	2403.7	2451.4	2627.4	2656.7
67.5°	8192.0	3375.4	1855.5	1663.0	1681.3	1912.3	2128.7	2251.5	2326.7	2561.4	2585.2
70°	7005.7	2951.9	1694.1	1499.8	1521.8	1736.3	1938.0	2077.3	2189.2	2499.0	2506.4
72.5°	5164.9	2420.2	1468.6	1320.1	1343.9	1531.0	1745.5	1906.8	2057.2	2343.2	2339.5
75°	3071.1	1892.2	1219.3	1138.6	1155.1	1329.3	1571.3	1767.5	1993.0	2282.7	2317.5
77.5°	1862.8	1424.6	993.7	953.4	973.6	1151.4	1446.6	1655.6	1965.5	2152.5	2141.5
80°	1125.8	1017.6	793.9	768.2	788.4	984.6	1338.4	1571.3	1718.0	1839.0	1839.0
82.5°	588.5	621.6	583.0	562.9	590.4	799.4	1217.4	1371.4	1518.1	1303.6	1217.4
85°	240.2	324.5	353.9	352.0	368.5	553.7	1050.6	1173.4	979.1	929.6	951.6
87.5°	80.7	137.5	172.3	148.5	155.8	348.4	727.9	566.5	672.9	469.4	445.5
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)