

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: P320903

Luminaire Tested: **GAN-SA9D-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320903
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-SA9D-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 59513 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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

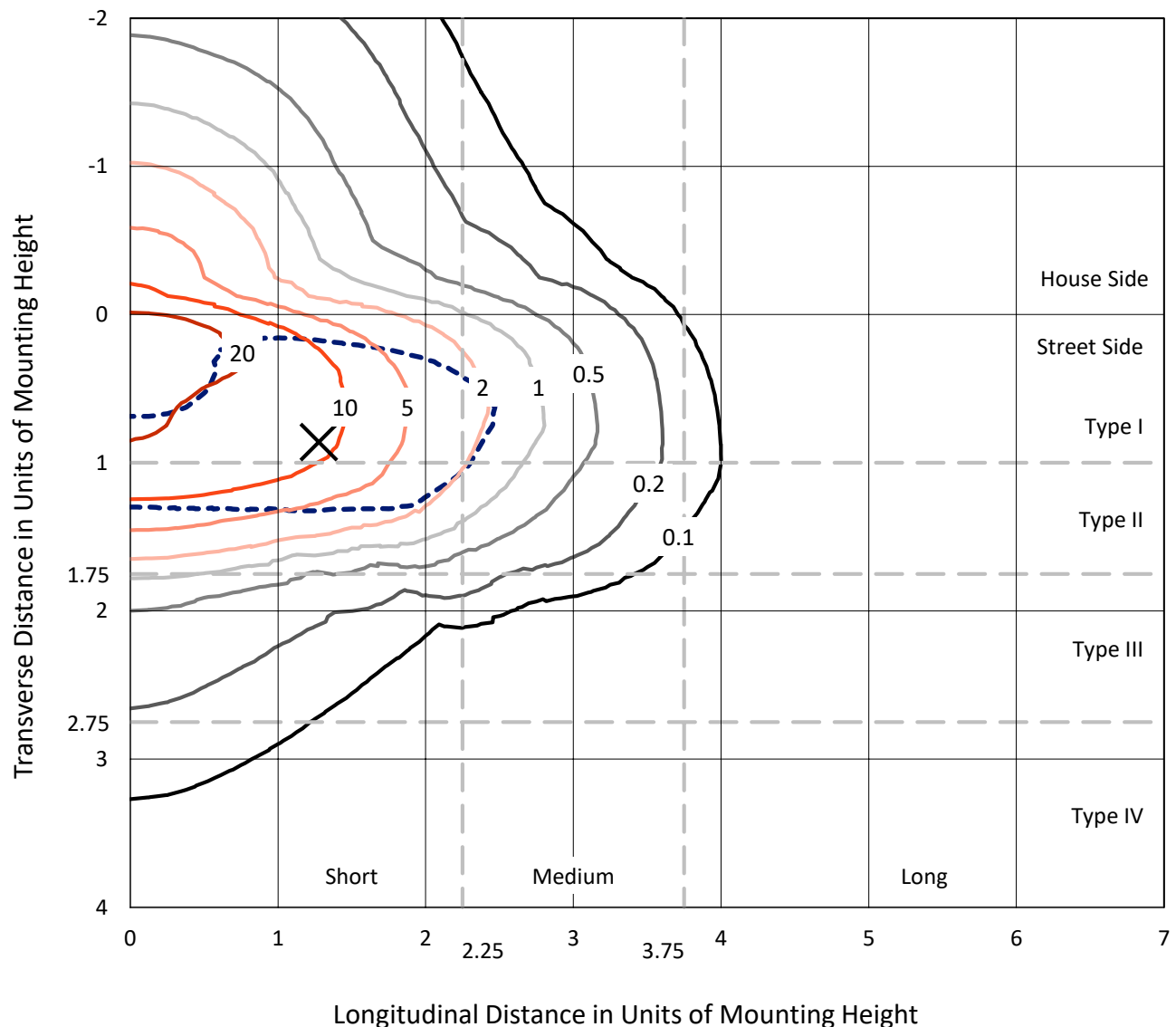


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Iso-Footcandle Lines of Horizontal Illumination

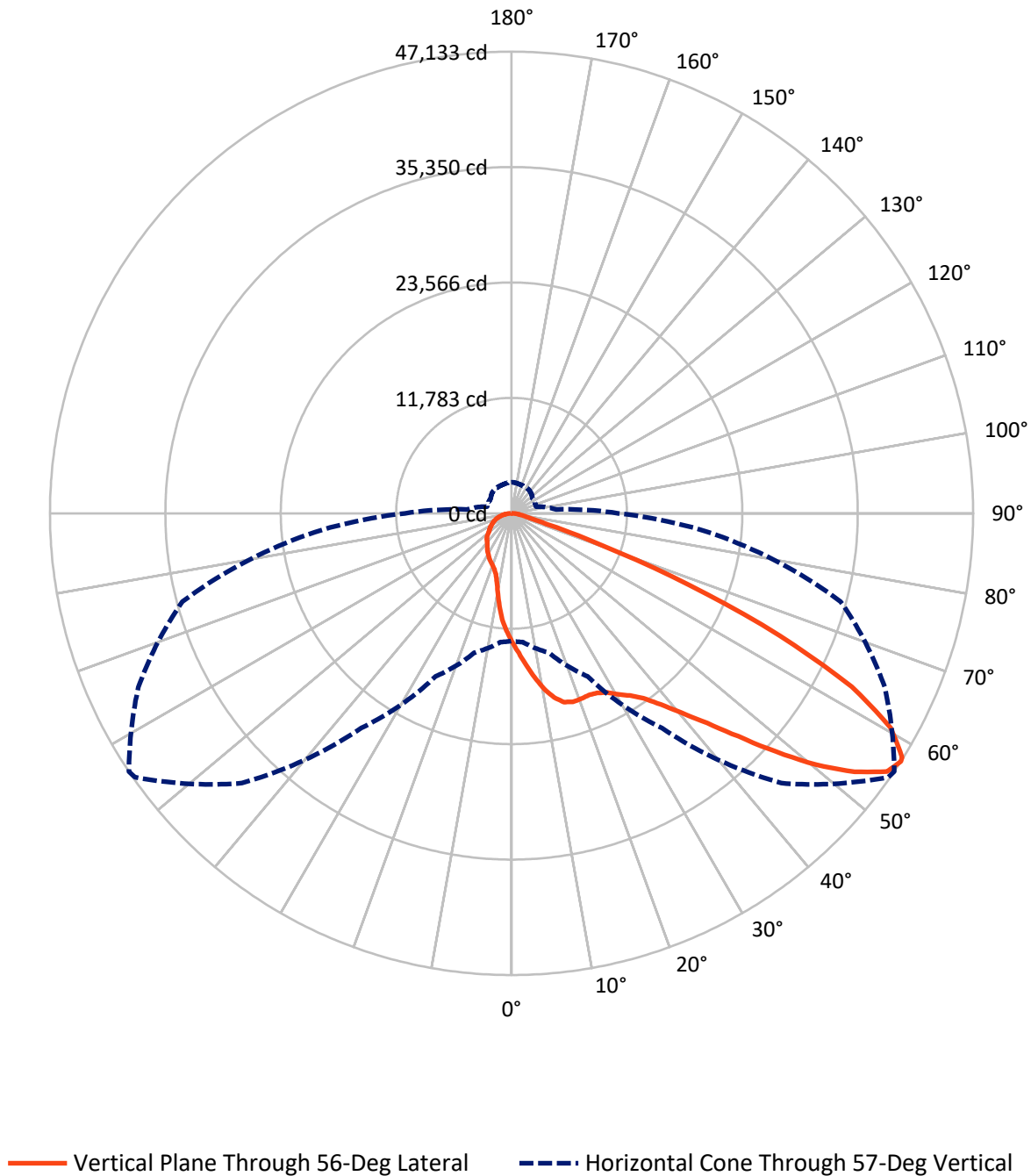
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.3 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	10258.8	0.0	10258.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	49254.2	0.0	49254.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	59513.0	0.0	59513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1260.9	2.1
10°-20°	3564.9	6.0
20°-30°	5806.6	9.8
30°-40°	8680.3	14.6
40°-50°	13166.1	22.1
50°-60°	14756.9	24.8
60°-70°	8716.0	14.6
70°-80°	2855.7	4.8
80°-90°	705.5	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°	59513.0	100.0
0°-180°	59513.0	100.0

Coefficient of Utilization



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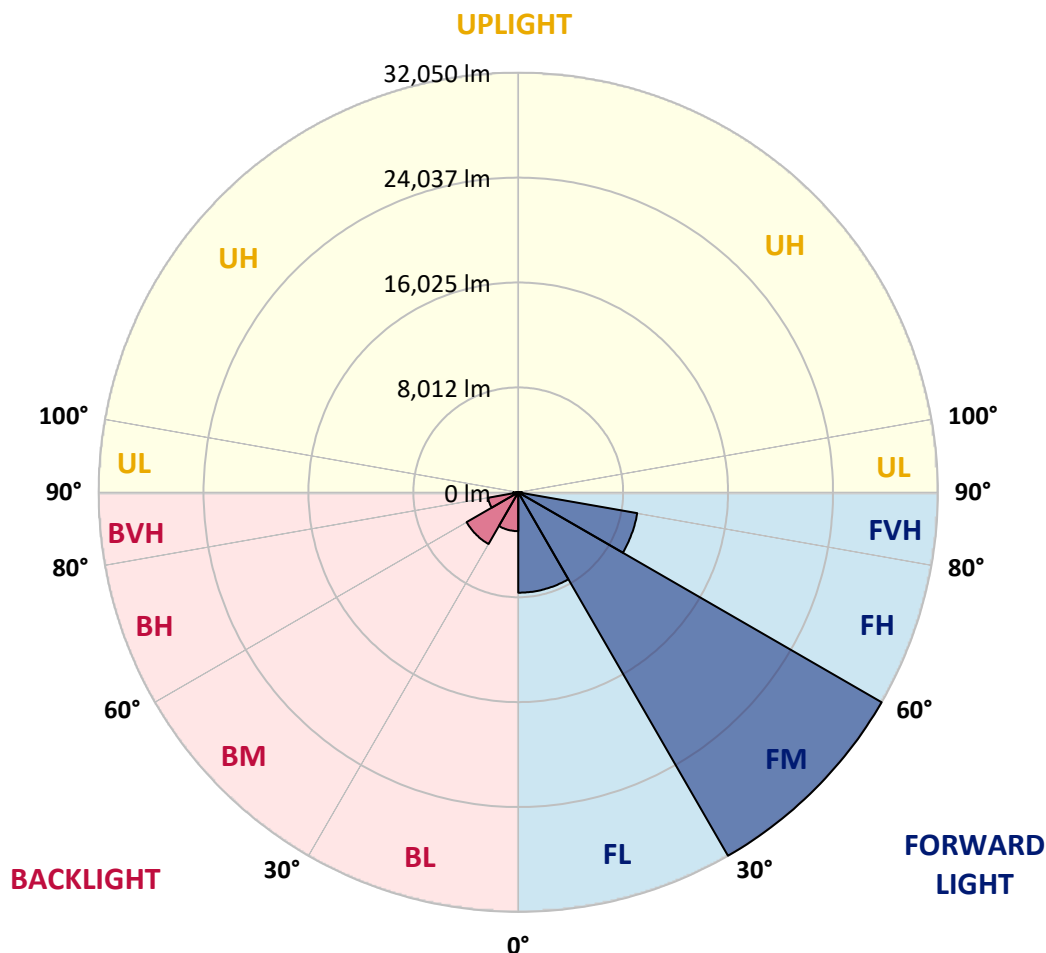
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7666.2	12.9			
FM	(30°-60°)	32049.7	53.9			
FH	(60°-80°)	9227.7	15.5			G4/12000
FVH	(80°-90°)	310.7	0.5			G3/500
BL	(0°-30°)	2966.4	5.0	B4/5000		
BM	(30°-60°)	4553.5	7.7	B3/5000		
BH	(60°-80°)	2344.0	3.9	B3/2500		G3/2500
BVH	(80°-90°)	394.9	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°	13200.0	13200.0	13200.0	13200.0	13200.0	13200.0	13200.0	13200.0	13200.0	13200.0	13200.0
2.5°	15157.3	15296.4	15235.1	15022.4	14858.7	14627.6	14369.9	14292.2	14020.2	13715.4	13349.3
5°	17556.4	17486.9	17386.7	17055.3	16705.6	16298.6	15652.3	15550.0	14944.6	14255.4	13527.3
7.5°	18922.6	18916.5	18857.2	18662.9	18343.8	17812.1	17032.8	16912.2	15997.9	14889.4	13760.4
10°	18724.3	18709.9	18808.1	19010.6	19106.7	18996.3	18339.7	18219.1	17096.2	15590.9	14030.4
12.5°	17597.3	17605.5	17763.0	18188.4	18767.2	19462.6	19356.2	19296.9	18235.4	16384.5	14357.6
15°	16719.9	16738.3	16863.1	17233.3	17916.4	19178.3	19973.9	19994.4	19337.8	17259.9	14740.1
17.5°	16335.4	16374.3	16431.5	16691.3	17317.1	18611.8	20121.2	20231.6	20303.2	18167.9	15108.3
20°	16458.1	16494.9	16511.3	16677.0	17190.3	18268.2	20018.9	20217.3	21043.6	19022.9	15476.4
22.5°	17008.3	17030.8	17041.0	17084.0	17482.8	18366.3	19951.4	20160.0	21579.4	19789.8	15754.6
25°	17920.5	17904.1	17838.7	17783.4	18051.4	18754.9	20106.8	20305.2	22015.1	20485.2	15936.6
27.5°	19012.6	18992.2	18865.4	18714.0	18867.4	19360.3	20554.8	20712.2	22405.7	21135.6	16028.6
30°	20323.6	20270.5	20031.2	19851.2	19910.5	20268.4	21293.1	21436.3	23009.1	21873.9	16118.6
32.5°	21839.2	21781.9	21436.3	21137.6	21137.6	21436.3	22053.9	22172.5	23520.4	22708.4	16263.8
35°	23737.2	23665.6	23215.6	22714.5	22573.4	22724.8	23090.9	23174.7	24440.7	23759.7	16527.7
37.5°	25974.7	25878.5	25295.6	24624.8	24316.0	24307.8	24571.6	24743.4	25911.3	25140.2	16975.6
40°	28218.3	28150.8	27641.5	27113.9	26508.5	26314.2	26721.2	26774.4	27833.8	26854.1	17548.2
42.5°	29952.7	29940.4	29846.3	29915.9	29296.1	28903.5	29222.5	29265.5	30181.7	28709.2	18157.7
45°	30868.9	30889.4	31345.5	32355.8	32584.9	32298.6	32456.1	32468.3	32865.1	30580.6	18716.1
47.5°	30134.7	30241.1	31394.6	33654.6	35530.1	36481.1	36219.3	36370.7	35466.7	32188.1	19153.8
50°	27273.4	27404.3	29367.7	33075.8	36904.5	40528.7	40391.6	40356.9	37565.1	33366.2	19391.0
52.5°	23729.0	23831.2	25451.1	30067.2	35896.2	42766.2	44024.0	43844.0	39430.4	34247.7	19436.0
55°	18331.6	18491.1	20043.4	24062.4	31817.9	41911.2	46695.1	46533.5	41130.0	34709.9	19382.8
57°	13032.3	13200.0	14742.2	18364.3	26766.2	38951.8	46961.0	47132.8	42048.3	34787.6	19442.1
57.5°	11629.3	11801.1	13328.9	16846.7	25191.3	37882.1	46731.9	47018.2	42213.9	34775.4	19474.9
60°	5855.5	5921.0	6894.5	9404.1	15924.3	30625.6	43743.8	44482.1	42363.2	34174.1	19616.0
62.5°	3640.5	3593.5	3562.8	4331.8	7747.4	20309.3	37577.4	38998.8	39506.0	32717.8	19274.4
65°	3200.8	3112.9	2775.4	2714.0	3421.7	9864.2	28298.1	30067.2	33401.0	30423.1	18460.4
67.5°	3006.5	2920.6	2540.2	2311.1	2313.2	3910.5	17568.7	19560.8	26019.7	26543.2	16539.9
70°	2806.1	2728.4	2372.5	2102.5	1969.6	2165.9	8082.8	9594.3	16961.3	20863.6	13823.8
72.5°	2548.4	2495.2	2157.7	1879.6	1738.5	1621.9	3094.5	3654.9	9819.2	14012.0	9600.4
75°	2278.4	2229.3	1940.9	1675.1	1503.3	1276.2	1742.6	1877.5	4988.4	7168.6	4726.6
77.5°	1981.8	1953.2	1726.2	1480.8	1343.7	1057.4	1233.3	1298.7	2139.3	3074.0	2370.4
80°	1576.9	1632.1	1509.4	1319.2	1192.4	846.7	873.3	916.3	1245.6	1501.2	1345.8
82.5°	1026.7	1122.8	1182.2	1071.7	981.7	666.8	627.9	646.3	812.0	916.3	584.9
85°	427.5	480.6	777.2	701.5	652.4	486.8	421.3	429.5	503.1	521.5	239.3
87.5°	190.2	202.5	341.6	321.1	276.1	167.7	180.0	196.3	267.9	253.6	92.0
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°	13200.0	13200.0	13200.0	13200.0	13200.0	13200.0	13200.0	13200.0	13200.0	13200.0	13200.0
2.5°	13212.3	13040.5	12746.0	12420.8	12154.9	11942.2	11727.5	11580.2	11408.4	11316.4	11269.3
5°	13222.5	12885.1	12265.4	11629.3	11060.7	10541.2	10046.3	9665.8	9310.0	9117.7	9064.5
7.5°	13265.5	12758.3	11756.1	10708.9	9698.6	8776.2	8064.4	7618.6	7297.4	7154.3	7113.4
10°	13300.3	12609.0	11126.2	9575.9	8201.4	7266.8	6714.6	6465.0	6354.6	6336.2	6317.8
12.5°	13382.1	12455.6	10463.5	8393.7	7037.7	6391.4	6199.1	6182.8	6213.5	6258.5	6258.5
15°	13510.9	12304.2	9706.8	7379.3	6297.3	6070.3	6109.2	6199.1	6283.0	6352.5	6362.8
17.5°	13605.0	12118.1	8892.7	6567.3	5902.6	5963.9	6103.0	6229.8	6315.7	6383.2	6389.4
20°	13672.5	11829.7	8023.5	5947.6	5675.6	5865.8	6039.6	6152.1	6211.4	6278.9	6289.1
22.5°	13637.7	11443.2	7252.5	5503.8	5491.5	5722.6	5888.3	6023.3	5978.3	5912.8	5955.8
25°	13470.0	10911.4	6458.9	5172.4	5297.2	5530.4	5734.9	5644.9	5493.5	5464.9	5481.3
27.5°	13171.4	10232.4	5724.7	4865.6	5072.2	5352.4	5340.1	5250.2	5197.0	5160.2	5182.7
30°	12850.3	9496.1	5082.4	4597.7	4822.7	5053.8	5006.8	5004.7	4951.5	4892.2	4920.9
32.5°	12533.3	8755.7	4573.2	4376.8	4634.5	4665.2	4767.5	4798.2	4693.8	4569.1	4560.9
35°	12257.2	8056.2	4186.6	4176.4	4407.5	4411.6	4560.9	4518.0	4258.2	4129.4	4129.4
37.5°	12050.6	7358.8	3892.1	3996.4	4108.9	4215.3	4290.9	4113.0	4070.0	3998.5	3996.4
40°	11960.6	6745.2	3708.0	3859.4	3898.2	4033.2	3838.9	3908.5	3928.9	3892.1	3892.1
42.5°	11866.5	6211.4	3548.5	3755.1	3748.9	3730.5	3632.4	3722.4	3804.2	3806.2	3800.1
45°	11772.5	5751.2	3407.4	3532.1	3618.0	3419.7	3438.1	3534.2	3648.7	3689.6	3689.6
47.5°	11668.1	5387.2	3278.5	3296.9	3429.9	3296.9	3282.6	3356.3	3491.2	3556.7	3571.0
50°	11439.1	5059.9	3131.3	3090.4	3127.2	3172.2	3184.5	3219.2	3368.5	3472.8	3497.4
52.5°	11122.1	4767.5	2943.1	2900.2	2900.2	3069.9	3127.2	3137.4	3264.2	3389.0	3413.5
55°	10858.2	4581.4	2748.8	2740.6	2732.5	2961.5	3059.7	3076.1	3164.0	3262.2	3274.4
57°	10876.6	4567.0	2599.5	2607.7	2605.6	2851.1	2996.3	3031.1	3076.1	3159.9	3174.2
57.5°	10886.9	4577.3	2566.8	2570.9	2568.8	2820.4	2977.9	3016.7	3051.5	3139.5	3153.8
60°	11040.3	4603.9	2433.8	2388.9	2399.1	2656.8	2873.6	2922.7	2945.2	3061.7	3080.1
62.5°	10813.2	4485.2	2327.5	2219.1	2219.1	2485.0	2728.4	2806.1	2840.9	2998.3	3029.0
65°	10154.7	4151.9	2202.7	2026.8	2047.3	2313.2	2554.5	2681.3	2734.5	2930.8	2963.6
67.5°	9138.2	3765.3	2069.8	1855.0	1875.5	2133.2	2374.5	2511.6	2595.4	2857.2	2883.8
70°	7814.9	3292.9	1889.8	1673.0	1697.6	1936.9	2161.8	2317.3	2442.0	2787.7	2795.9
72.5°	5761.5	2699.7	1638.2	1472.6	1499.2	1707.8	1947.1	2127.1	2294.8	2613.8	2609.7
75°	3425.8	2110.7	1360.1	1270.1	1288.5	1482.8	1752.8	1971.6	2223.2	2546.3	2585.2
77.5°	2078.0	1589.2	1108.5	1063.5	1086.0	1284.4	1613.7	1846.9	2192.5	2401.1	2388.9
80°	1255.8	1135.1	885.6	857.0	879.5	1098.3	1493.0	1752.8	1916.4	2051.4	2051.4
82.5°	656.5	693.3	650.4	627.9	658.6	891.7	1358.0	1529.8	1693.5	1454.2	1358.0
85°	267.9	362.0	394.7	392.7	411.1	617.7	1171.9	1309.0	1092.2	1036.9	1061.5
87.5°	90.0	153.4	192.3	165.7	173.8	388.6	812.0	632.0	750.6	523.6	497.0
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)