

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: P320900

Luminaire Tested: **GAN-SA6D-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320900
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-SA6D-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 39814 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

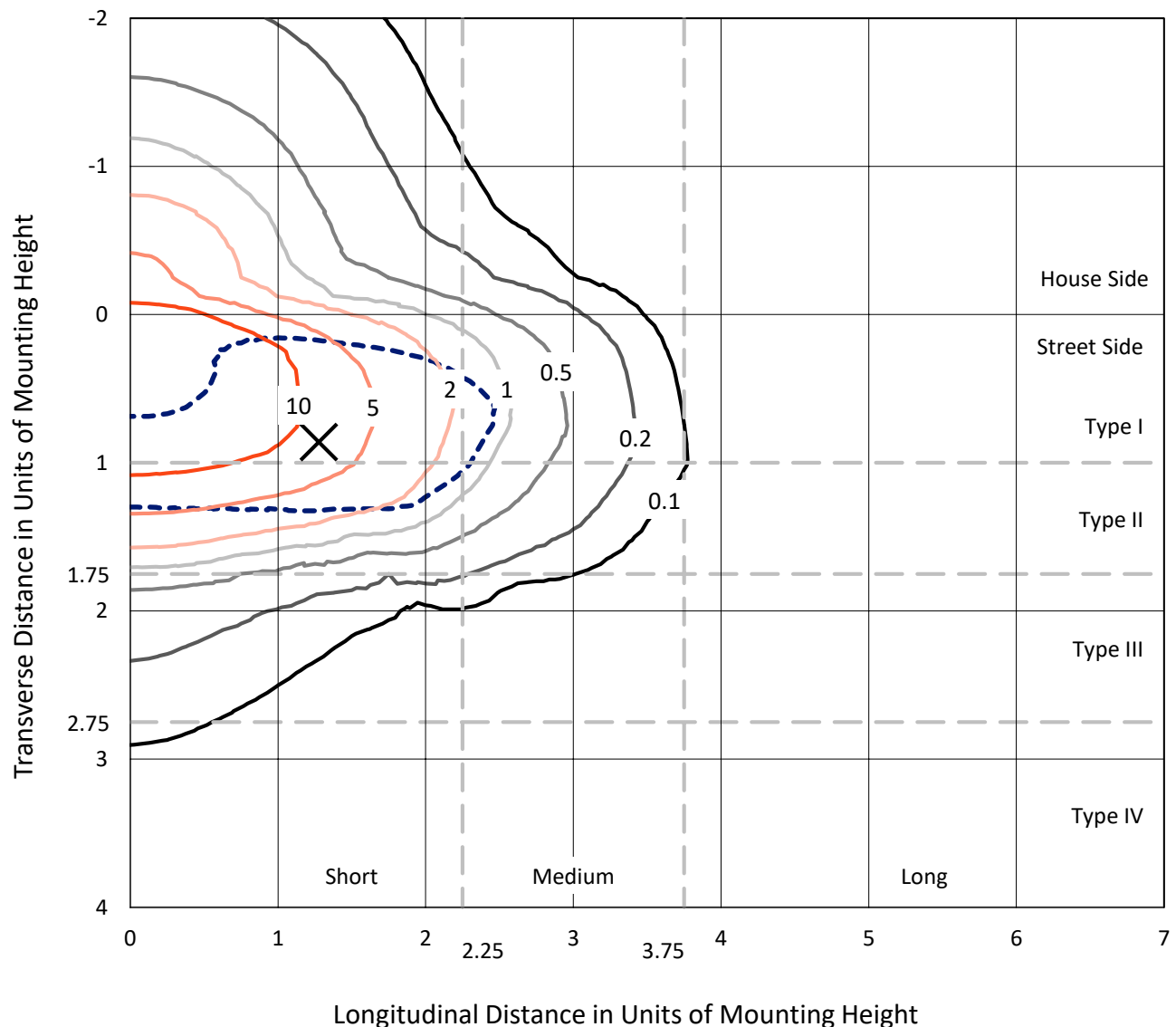
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

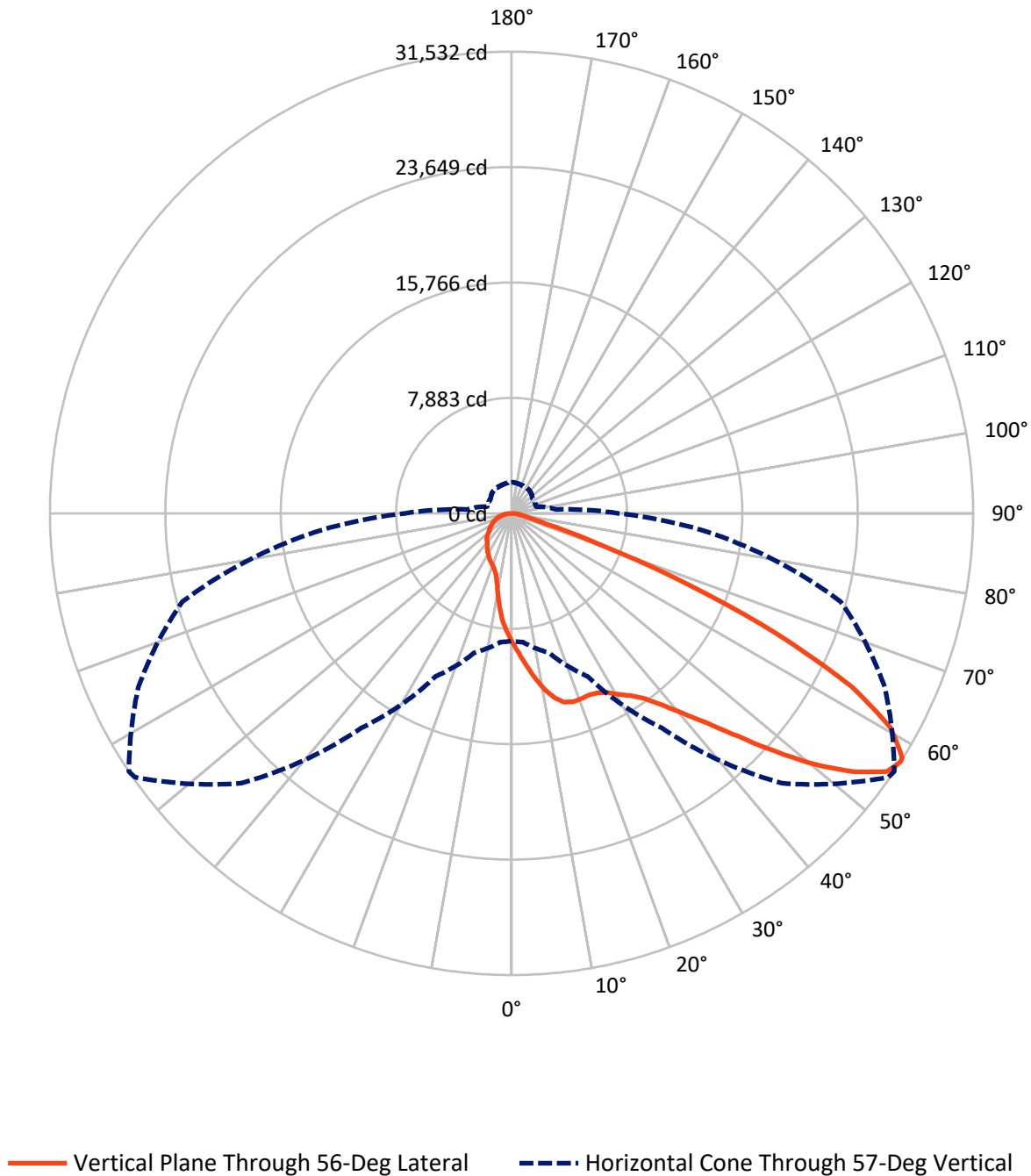
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 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	6863.1	0.0	6863.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	32950.9	0.0	32950.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	39814.0	0.0	39814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.6	2.1
10°-20°	2384.9	6.0
20°-30°	3884.6	9.8
30°-40°	5807.1	14.6
40°-50°	8808.1	22.1
50°-60°	9872.3	24.8
60°-70°	5831.0	14.6
70°-80°	1910.5	4.8
80°-90°	472.0	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°	39814.0	100.0
0°-180°	39814.0	100.0

Coefficient of Utilization



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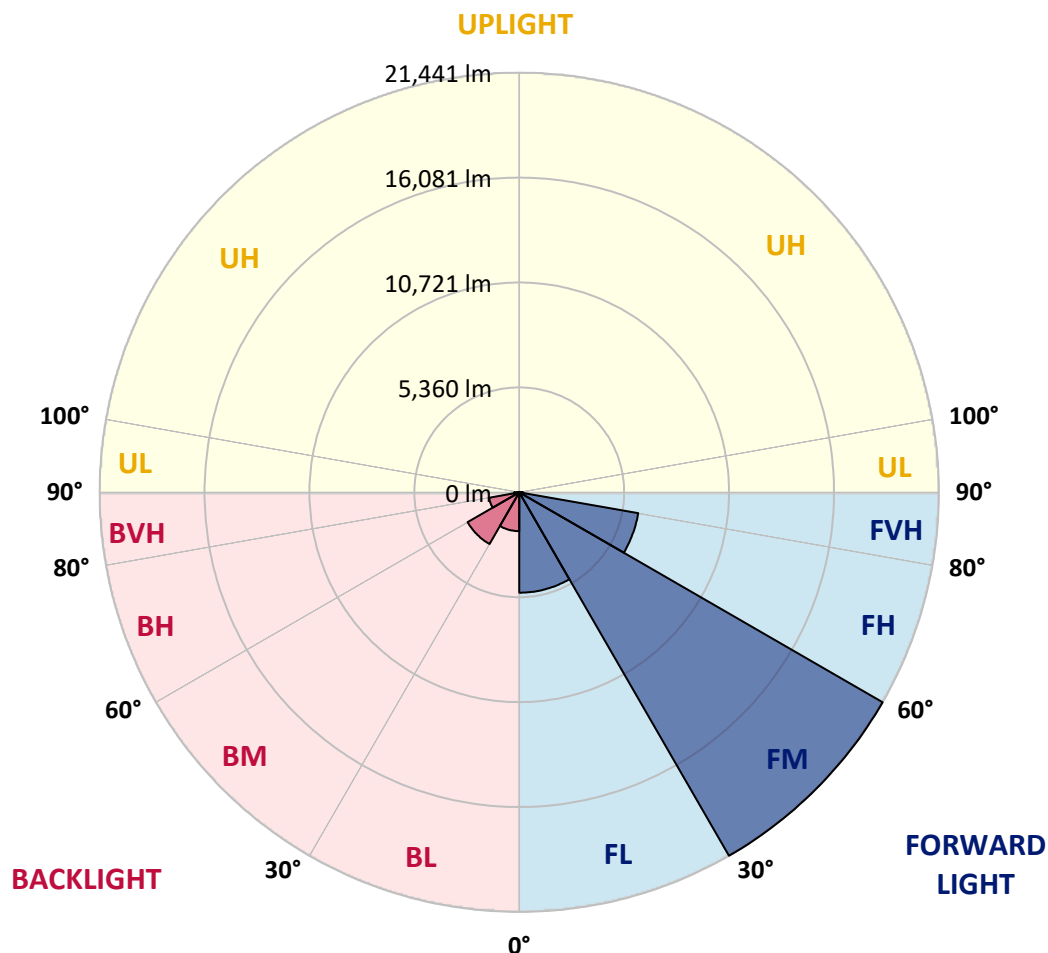
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5128.6	12.9			
FM	(30°-60°)	21441.2	53.9			
FH	(60°-80°)	6173.3	15.5			G3/7500
FVH	(80°-90°)	207.8	0.5			G2/225
BL	(0°-30°)	1984.5	5.0	B3/2500		
BM	(30°-60°)	3046.3	7.7	B3/5000		
BH	(60°-80°)	1568.1	3.9	B3/2500		G3/2500
BVH	(80°-90°)	264.2	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8830.8	8830.8	8830.8	8830.8	8830.8	8830.8	8830.8	8830.8	8830.8	8830.8	8830.8
2.5°	10140.2	10233.3	10192.2	10049.9	9940.4	9785.8	9613.4	9561.4	9379.5	9175.6	8930.7
5°	11745.2	11698.7	11631.6	11410.0	11176.0	10903.7	10471.3	10402.9	9997.9	9536.8	9049.7
7.5°	12659.2	12655.1	12615.4	12485.4	12272.0	11916.2	11394.9	11314.2	10702.6	9961.0	9205.7
10°	12526.5	12516.9	12582.6	12718.0	12782.3	12708.4	12269.2	12188.5	11437.3	10430.3	9386.3
12.5°	11772.6	11778.0	11883.4	12168.0	12555.2	13020.4	12949.3	12909.6	12199.4	10961.2	9605.2
15°	11185.6	11197.9	11281.3	11529.0	11986.0	12830.2	13362.5	13376.2	12936.9	11546.8	9861.1
17.5°	10928.3	10954.3	10992.6	11166.4	11585.1	12451.2	13461.0	13534.9	13582.8	12154.3	10107.4
20°	11010.4	11035.1	11046.0	11156.8	11500.3	12221.3	13392.6	13525.3	14078.1	12726.2	10353.7
22.5°	11378.5	11393.5	11400.4	11429.1	11695.9	12287.0	13347.4	13487.0	14436.6	13239.3	10539.7
25°	11988.7	11977.8	11934.0	11897.1	12076.3	12547.0	13451.4	13584.1	14728.0	13704.5	10661.5
27.5°	12719.4	12705.7	12620.9	12519.6	12622.2	12952.0	13751.1	13856.4	14989.3	14139.6	10723.1
30°	13596.4	13560.9	13400.8	13280.4	13320.1	13559.5	14245.0	14340.8	15393.0	14633.6	10783.3
32.5°	14610.3	14572.0	14340.8	14141.0	14141.0	14340.8	14754.0	14833.4	15735.0	15191.8	10880.4
35°	15880.1	15832.2	15531.2	15195.9	15101.5	15202.8	15447.7	15503.8	16350.8	15895.1	11056.9
37.5°	17377.0	17312.7	16922.7	16473.9	16267.3	16261.8	16438.3	16553.3	17334.5	16818.7	11356.6
40°	18878.0	18832.8	18492.1	18139.1	17734.1	17604.1	17876.4	17912.0	18620.7	17965.3	11739.7
42.5°	20038.2	20030.0	19967.1	20013.6	19599.0	19336.3	19549.8	19578.5	20191.5	19206.3	12147.5
45°	20651.2	20664.9	20970.0	21646.0	21799.2	21607.6	21713.0	21721.2	21986.6	20458.3	12521.0
47.5°	20160.0	20231.2	21002.9	22514.8	23769.5	24405.7	24230.6	24331.9	23727.1	21533.8	12813.8
50°	18245.8	18333.4	19646.9	22127.6	24689.0	27113.5	27021.9	26998.6	25130.9	22321.9	12972.5
52.5°	15874.6	15943.0	17026.7	20114.9	24014.4	28610.4	29451.9	29331.5	26378.8	22911.6	13002.6
55°	12263.8	12370.5	13409.0	16097.6	21286.1	28038.5	31238.9	31130.8	27515.8	23220.8	12967.0
57°	8718.6	8830.8	9862.5	12285.7	17906.5	26058.6	31416.7	31531.7	28130.2	23272.8	13006.7
57.5°	7780.0	7894.9	8917.0	11270.4	16852.9	25343.0	31263.5	31455.0	28241.0	23264.6	13028.6
60°	3917.3	3961.1	4612.4	6291.3	10653.3	20488.4	29264.4	29758.4	28340.9	22862.3	13123.0
62.5°	2435.5	2404.0	2383.5	2898.0	5183.0	13586.9	25139.1	26090.1	26429.4	21888.1	12894.5
65°	2141.3	2082.5	1856.7	1815.7	2289.1	6599.1	18931.3	20114.9	22345.1	20352.9	12350.0
67.5°	2011.3	1953.9	1699.4	1546.1	1547.5	2616.1	11753.4	13086.1	17407.1	17757.3	11065.2
70°	1877.3	1825.3	1587.2	1406.6	1317.6	1449.0	5407.4	6418.5	11347.0	13957.7	9248.1
72.5°	1704.9	1669.3	1443.5	1257.4	1163.0	1085.0	2070.2	2445.1	6569.0	9374.0	6422.6
75°	1524.2	1491.4	1298.5	1120.6	1005.7	853.8	1165.8	1256.1	3337.2	4795.8	3162.1
77.5°	1325.8	1306.7	1154.8	990.6	899.0	707.4	825.1	868.8	1431.2	2056.5	1585.8
80°	1054.9	1091.9	1009.8	882.5	797.7	566.5	584.2	613.0	833.3	1004.3	900.3
82.5°	686.9	751.2	790.9	717.0	656.8	446.1	420.1	432.4	543.2	613.0	391.3
85°	286.0	321.5	519.9	469.3	436.5	325.6	281.9	287.3	336.6	348.9	160.1
87.5°	127.2	135.5	228.5	214.8	184.7	112.2	120.4	131.4	179.2	169.7	61.6
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°	8830.8	8830.8	8830.8	8830.8	8830.8	8830.8	8830.8	8830.8	8830.8	8830.8	8830.8
2.5°	8839.0	8724.1	8527.0	8309.5	8131.6	7989.3	7845.6	7747.1	7632.2	7570.6	7539.1
5°	8845.8	8620.1	8205.5	7780.0	7399.6	7052.0	6720.9	6466.4	6228.3	6099.7	6064.1
7.5°	8874.6	8535.2	7864.8	7164.2	6488.3	5871.2	5395.1	5096.8	4882.0	4786.2	4758.8
10°	8897.8	8435.4	7443.4	6406.2	5486.7	4861.4	4492.0	4325.1	4251.2	4238.9	4226.6
12.5°	8952.6	8332.7	7000.0	5615.4	4708.2	4275.8	4147.2	4136.3	4156.8	4186.9	4186.9
15°	9038.8	8231.5	6493.8	4936.7	4212.9	4061.0	4087.0	4147.2	4203.3	4249.8	4256.7
17.5°	9101.7	8107.0	5949.2	4393.5	3948.8	3989.9	4082.9	4167.7	4225.2	4270.4	4274.5
20°	9146.9	7914.0	5367.7	3978.9	3796.9	3924.2	4040.5	4115.7	4155.4	4200.6	4207.4
22.5°	9123.6	7655.4	4851.9	3682.0	3673.8	3828.4	3939.2	4029.5	3999.4	3955.7	3984.4
25°	9011.4	7299.7	4321.0	3460.3	3543.8	3699.8	3836.6	3776.4	3675.2	3656.0	3666.9
27.5°	8811.6	6845.4	3829.8	3255.1	3393.3	3580.7	3572.5	3512.3	3476.8	3452.1	3467.2
30°	8596.8	6352.9	3400.1	3075.9	3226.4	3381.0	3349.5	3348.1	3312.6	3272.9	3292.0
32.5°	8384.7	5857.5	3059.4	2928.1	3100.5	3121.0	3189.4	3209.9	3140.2	3056.7	3051.2
35°	8200.0	5389.6	2800.8	2794.0	2948.6	2951.3	3051.2	3022.5	2848.7	2762.5	2762.5
37.5°	8061.8	4923.0	2603.8	2673.6	2748.8	2820.0	2870.6	2751.6	2722.8	2675.0	2673.6
40°	8001.6	4512.5	2480.7	2581.9	2607.9	2698.2	2568.2	2614.8	2628.4	2603.8	2603.8
42.5°	7938.7	4155.4	2373.9	2512.1	2508.0	2495.7	2430.0	2490.2	2545.0	2546.3	2542.2
45°	7875.7	3847.6	2279.5	2363.0	2420.5	2287.7	2300.1	2364.4	2441.0	2468.3	2468.3
47.5°	7806.0	3604.0	2193.3	2205.6	2294.6	2205.6	2196.1	2245.3	2335.6	2379.4	2389.0
50°	7652.7	3385.1	2094.8	2067.4	2092.1	2122.2	2130.4	2153.6	2253.5	2323.3	2339.7
52.5°	7440.6	3189.4	1968.9	1940.2	1940.2	2053.8	2092.1	2098.9	2183.8	2267.2	2283.6
55°	7264.1	3064.9	1838.9	1833.5	1828.0	1981.2	2046.9	2057.9	2116.7	2182.4	2190.6
57°	7276.4	3055.3	1739.1	1744.5	1743.2	1907.4	2004.5	2027.8	2057.9	2114.0	2123.5
57.5°	7283.3	3062.2	1717.2	1719.9	1718.5	1886.8	1992.2	2018.2	2041.5	2100.3	2109.9
60°	7385.9	3080.0	1628.2	1598.1	1605.0	1777.4	1922.4	1955.3	1970.3	2048.3	2060.6
62.5°	7234.0	3000.6	1557.1	1484.6	1484.6	1662.4	1825.3	1877.3	1900.5	2005.9	2026.4
65°	6793.4	2777.6	1473.6	1356.0	1369.6	1547.5	1709.0	1793.8	1829.4	1960.7	1982.6
67.5°	6113.4	2519.0	1384.7	1241.0	1254.7	1427.1	1588.6	1680.2	1736.3	1911.5	1929.3
70°	5228.1	2202.9	1264.3	1119.2	1135.7	1295.7	1446.3	1550.2	1633.7	1864.9	1870.4
72.5°	3854.4	1806.1	1096.0	985.2	1002.9	1142.5	1302.6	1423.0	1535.2	1748.6	1745.9
75°	2291.8	1412.0	909.9	849.7	862.0	992.0	1172.6	1319.0	1487.3	1703.5	1729.5
77.5°	1390.2	1063.1	741.6	711.5	726.5	859.3	1079.6	1235.5	1466.8	1606.3	1598.1
80°	840.1	759.4	592.5	573.3	588.4	734.8	998.8	1172.6	1282.1	1372.4	1372.4
82.5°	439.2	463.8	435.1	420.1	440.6	596.6	908.5	1023.5	1132.9	972.8	908.5
85°	179.2	242.2	264.1	262.7	275.0	413.2	784.0	875.7	730.7	693.7	710.1
87.5°	60.2	102.6	128.6	110.8	116.3	260.0	543.2	422.8	502.2	350.3	332.5
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)