

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: P320881

Luminaire Tested: **GAN-SA7B-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320881
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-SA7B-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34680 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 295
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



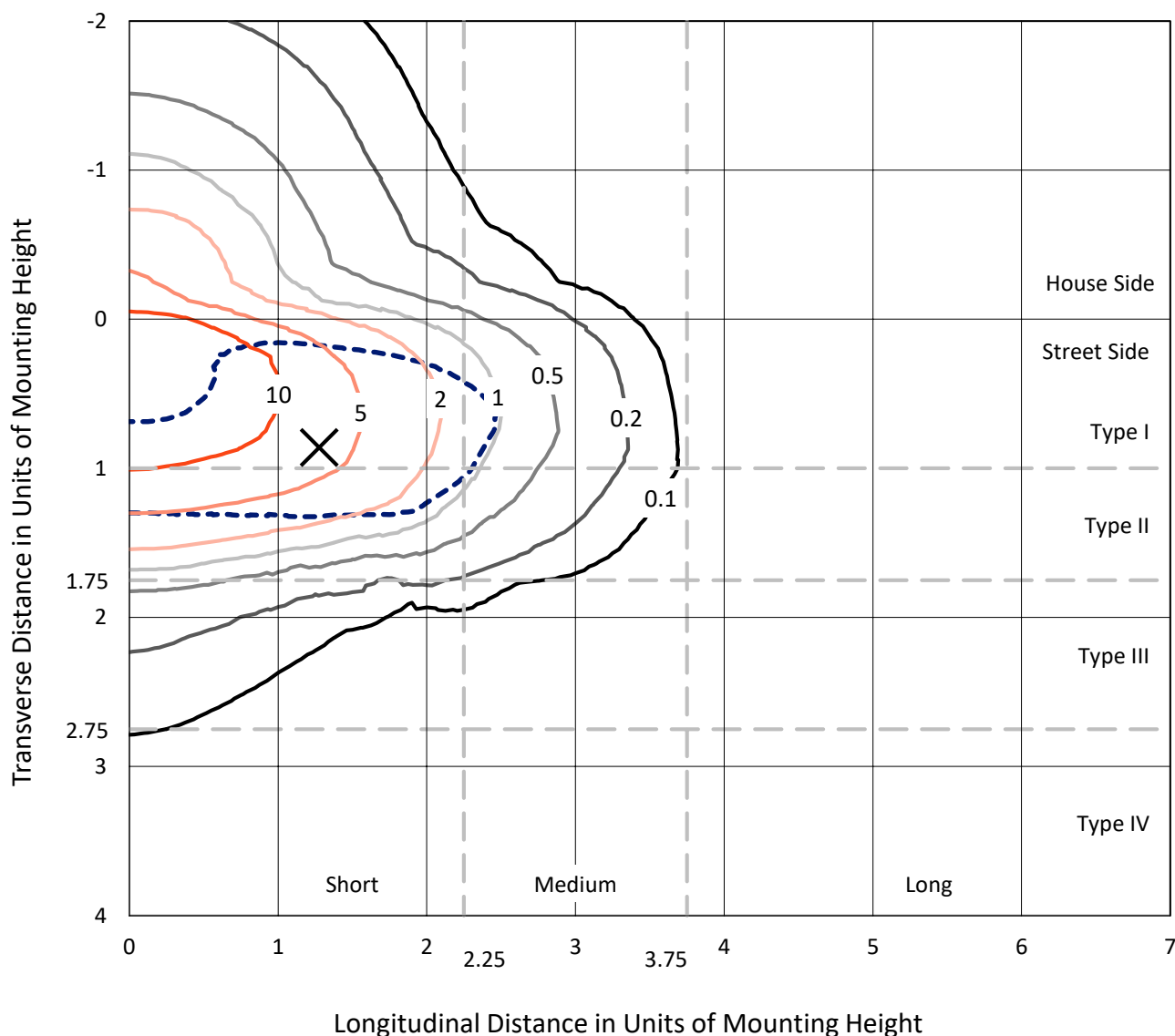
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

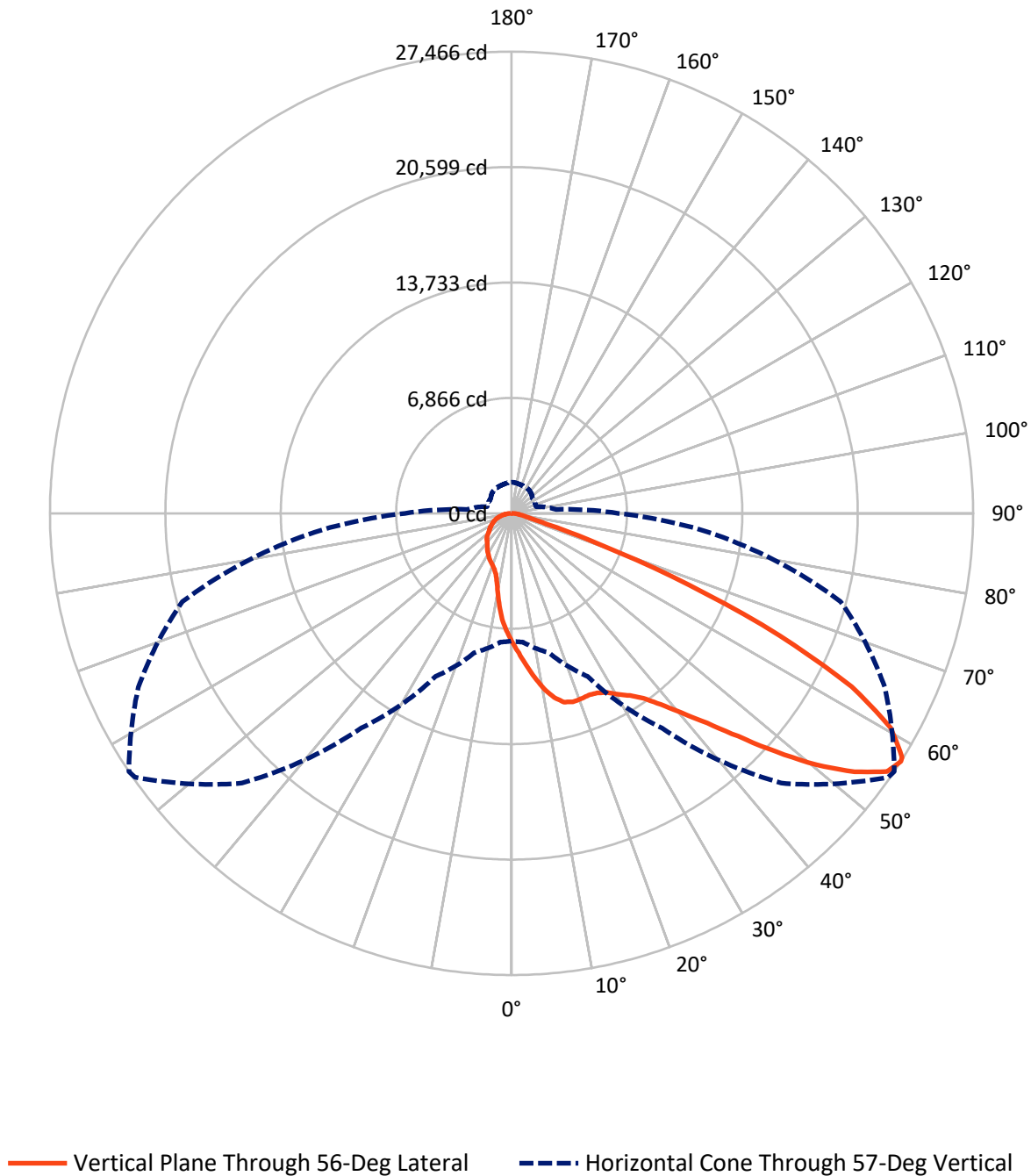


Based on 25 foot mounting height. Maximum calculated value = 17.1 fc

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	5978.1	0.0	5978.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	28701.9	0.0	28701.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	34680.0	0.0	34680.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.8	2.1
10°-20°	2077.4	6.0
20°-30°	3383.7	9.8
30°-40°	5058.2	14.6
40°-50°	7672.3	22.1
50°-60°	8599.3	24.8
60°-70°	5079.1	14.6
70°-80°	1664.1	4.8
80°-90°	411.1	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°	34680.0	100.0
0°-180°	34680.0	100.0

Coefficient of Utilization



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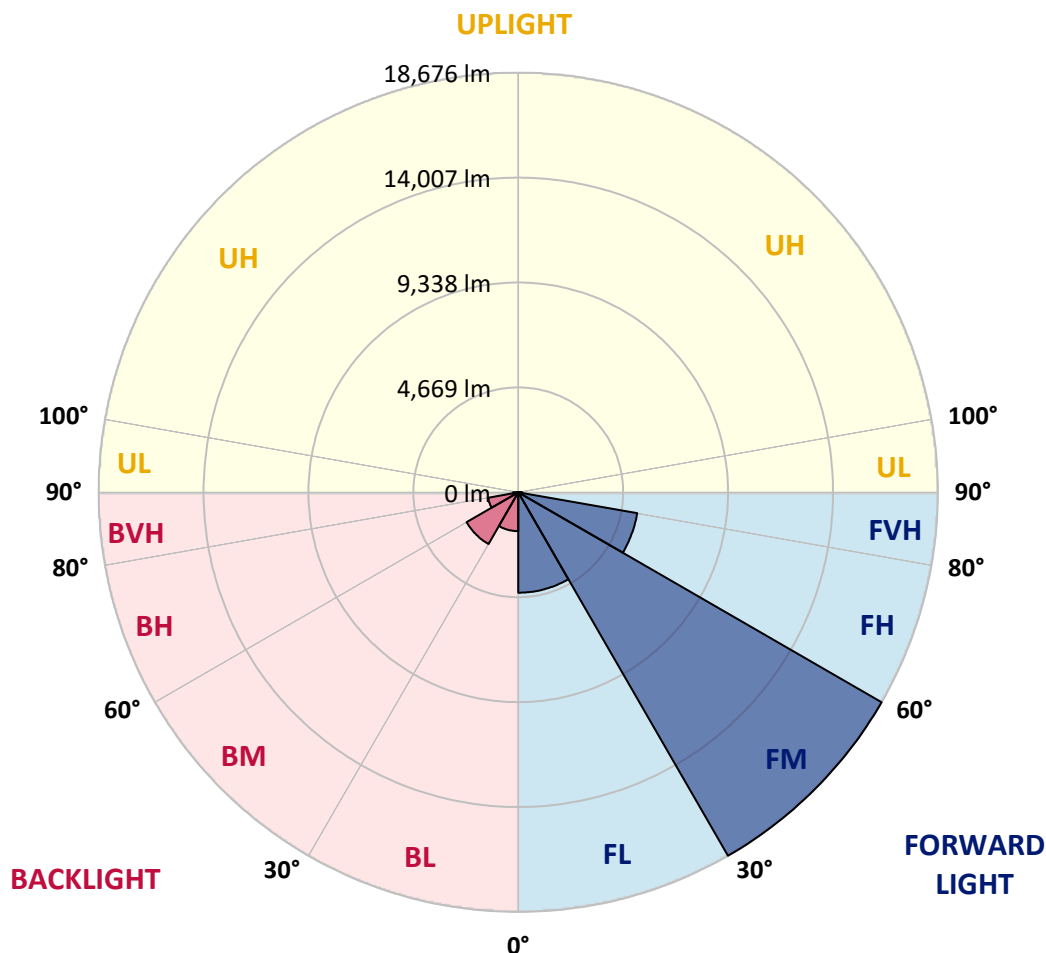
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4467.3	12.9			
FM	(30°-60°)	18676.3	53.9			
FH	(60°-80°)	5377.2	15.5			G3/7500
FVH	(80°-90°)	181.0	0.5			G2/225
BL	(0°-30°)	1728.6	5.0	B3/2500		
BM	(30°-60°)	2653.5	7.7	B3/5000		
BH	(60°-80°)	1365.9	3.9	B3/2500		G3/2500
BVH	(80°-90°)	230.1	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°	7692.1	7692.1	7692.1	7692.1	7692.1	7692.1	7692.1	7692.1	7692.1	7692.1	7692.1
2.5°	8832.6	8913.7	8877.9	8754.0	8658.6	8524.0	8373.8	8328.5	8170.0	7992.4	7779.1
5°	10230.6	10190.1	10131.7	9938.7	9734.8	9497.7	9121.1	9061.5	8708.7	8307.0	7882.7
7.5°	11026.8	11023.2	10988.7	10875.4	10689.5	10379.6	9925.5	9855.2	9322.5	8676.5	8018.6
10°	10911.2	10902.8	10960.0	11078.0	11134.1	11069.7	10687.1	10616.8	9962.5	9085.3	8175.9
12.5°	10254.5	10259.3	10351.0	10598.9	10936.2	11341.4	11279.5	11244.9	10626.3	9547.7	8366.6
15°	9743.2	9753.9	9826.6	10042.3	10440.4	11175.8	11639.4	11651.3	11268.7	10057.8	8589.5
17.5°	9519.1	9541.8	9575.1	9726.5	10091.2	10845.6	11725.2	11789.6	11831.3	10587.0	8804.0
20°	9590.6	9612.1	9621.6	9718.2	10017.3	10645.4	11665.6	11781.2	12262.7	11085.2	9018.6
22.5°	9911.2	9924.3	9930.3	9955.3	10187.7	10702.6	11626.3	11747.8	12575.0	11532.1	9180.6
25°	10442.8	10433.3	10395.1	10362.9	10519.1	10929.1	11716.9	11832.5	12828.8	11937.3	9286.7
27.5°	11079.2	11067.3	10993.4	10905.2	10994.6	11281.8	11977.9	12069.6	13056.5	12316.3	9340.4
30°	11843.2	11812.2	11672.8	11567.9	11602.4	11811.0	12408.1	12491.5	13408.1	12746.6	9392.8
32.5°	12726.3	12693.0	12491.5	12317.5	12317.5	12491.5	12851.5	12920.6	13706.0	13232.9	9477.4
35°	13832.4	13790.6	13528.4	13236.4	13154.2	13242.4	13455.7	13504.6	14242.3	13845.5	9631.2
37.5°	15136.2	15080.2	14740.5	14349.6	14169.6	14164.9	14318.6	14418.7	15099.3	14649.9	9892.2
40°	16443.6	16404.3	16107.6	15800.1	15447.3	15334.1	15571.2	15602.2	16219.6	15648.7	10225.9
42.5°	17454.3	17447.2	17392.3	17432.9	17071.7	16842.9	17028.8	17053.9	17587.8	16729.7	10581.0
45°	17988.3	18000.2	18266.0	18854.7	18988.2	18821.3	18913.1	18920.3	19151.5	17820.2	10906.4
47.5°	17560.4	17622.4	18294.6	19611.5	20704.4	21258.6	21106.1	21194.3	20667.5	18757.0	11161.5
50°	15893.0	15969.3	17113.5	19274.2	21505.3	23617.3	23537.4	23517.1	21890.3	19443.5	11299.7
52.5°	13827.6	13887.2	14831.1	17521.1	20917.8	24921.1	25654.1	25549.2	22977.2	19957.2	11325.9
55°	10682.4	10775.3	11679.9	14021.9	18541.3	24422.9	27210.6	27116.5	23967.7	20226.5	11295.0
57°	7594.3	7692.1	8590.7	10701.4	15597.4	22698.4	27365.6	27465.7	24502.8	20271.8	11329.5
57.5°	6776.7	6876.8	7767.1	9817.1	14679.7	22075.0	27232.1	27398.9	24599.3	20264.6	11348.6
60°	3412.2	3450.3	4017.7	5480.0	9279.6	17846.4	25490.8	25921.1	24686.3	19914.2	11430.8
62.5°	2121.5	2094.0	2076.2	2524.3	4514.6	11834.8	21897.4	22725.8	23021.3	19065.7	11231.8
65°	1865.2	1814.0	1617.3	1581.6	1993.9	5748.2	16490.1	17521.1	19463.7	17728.4	10757.4
67.5°	1752.0	1701.9	1480.2	1346.8	1348.0	2278.8	10237.8	11398.6	15162.4	15467.5	9638.3
70°	1635.2	1589.9	1382.5	1225.2	1147.7	1262.1	4710.1	5590.9	9883.8	12157.8	8055.6
72.5°	1485.0	1454.0	1257.4	1095.3	1013.1	945.1	1803.2	2129.8	5722.0	8165.2	5594.4
75°	1327.7	1299.1	1131.0	976.1	876.0	743.7	1015.4	1094.1	2906.9	4177.4	2754.3
77.5°	1154.9	1138.2	1005.9	862.9	783.0	616.2	718.7	756.8	1246.7	1791.3	1381.3
80°	918.9	951.1	879.6	768.7	694.8	493.4	508.9	533.9	725.8	874.8	784.2
82.5°	598.3	654.3	688.9	624.5	572.1	388.5	365.9	376.6	473.2	533.9	340.9
85°	249.1	280.1	452.9	408.8	380.2	283.7	245.5	250.3	293.2	303.9	139.4
87.5°	110.8	118.0	199.0	187.1	160.9	97.7	104.9	114.4	156.1	147.8	53.6
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°	7692.1	7692.1	7692.1	7692.1	7692.1	7692.1	7692.1	7692.1	7692.1	7692.1	7692.1
2.5°	7699.2	7599.1	7427.5	7238.0	7083.0	6959.1	6833.9	6748.1	6648.0	6594.4	6567.0
5°	7705.2	7508.5	7147.4	6776.7	6445.4	6142.7	5854.3	5632.6	5425.2	5313.2	5282.2
7.5°	7730.2	7434.6	6850.6	6240.4	5651.6	5114.1	4699.4	4439.6	4252.4	4169.0	4145.2
10°	7750.5	7347.6	6483.5	5580.1	4779.2	4234.6	3912.8	3767.4	3703.0	3692.3	3681.6
12.5°	7798.1	7258.2	6097.4	4891.3	4101.1	3724.5	3612.4	3602.9	3620.8	3647.0	3647.0
15°	7873.2	7170.0	5656.4	4300.1	3669.6	3537.3	3560.0	3612.4	3661.3	3701.8	3707.8
17.5°	7928.0	7061.6	5182.1	3827.0	3439.6	3475.4	3556.4	3630.3	3680.4	3719.7	3723.3
20°	7967.4	6893.5	4675.5	3465.8	3307.3	3418.2	3519.5	3585.0	3619.6	3658.9	3664.9
22.5°	7947.1	6668.3	4226.2	3207.2	3200.1	3334.7	3431.3	3509.9	3483.7	3445.6	3470.6
25°	7849.4	6358.4	3763.8	3014.1	3086.8	3222.7	3341.9	3289.4	3201.2	3184.6	3194.1
27.5°	7675.4	5962.7	3335.9	2835.4	2955.7	3119.0	3111.9	3059.4	3028.4	3007.0	3020.1
30°	7488.3	5533.7	2961.7	2679.2	2810.3	2945.0	2917.6	2916.4	2885.4	2850.9	2867.5
32.5°	7303.5	5102.2	2664.9	2550.5	2700.7	2718.6	2778.2	2796.0	2735.2	2662.5	2657.8
35°	7142.6	4694.6	2439.7	2433.7	2568.4	2570.8	2657.8	2632.7	2481.4	2406.3	2406.3
37.5°	7022.2	4288.2	2268.0	2328.8	2394.4	2456.4	2500.5	2396.8	2371.7	2330.0	2328.8
40°	6969.8	3930.6	2160.8	2249.0	2271.6	2350.3	2237.1	2277.6	2289.5	2268.0	2268.0
42.5°	6915.0	3619.6	2067.8	2188.2	2184.6	2173.9	2116.7	2169.1	2216.8	2218.0	2214.4
45°	6860.2	3351.4	1985.6	2058.3	2108.3	1992.7	2003.5	2059.5	2126.2	2150.1	2150.1
47.5°	6799.4	3139.3	1910.5	1921.2	1998.7	1921.2	1912.9	1955.8	2034.4	2072.6	2080.9
50°	6665.9	2948.6	1824.7	1800.9	1822.3	1848.5	1855.7	1875.9	1962.9	2023.7	2038.0
52.5°	6481.2	2778.2	1715.0	1690.0	1690.0	1788.9	1822.3	1828.3	1902.2	1974.9	1989.2
55°	6327.4	2669.7	1601.8	1597.0	1592.3	1725.8	1783.0	1792.5	1843.8	1901.0	1908.1
57°	6338.1	2661.4	1514.8	1519.6	1518.4	1661.4	1746.0	1766.3	1792.5	1841.4	1849.7
57.5°	6344.1	2667.3	1495.7	1498.1	1496.9	1643.5	1735.3	1757.9	1778.2	1829.5	1837.8
60°	6433.5	2682.8	1418.3	1392.1	1398.0	1548.2	1674.5	1703.1	1716.2	1784.2	1794.9
62.5°	6301.2	2613.7	1356.3	1293.1	1293.1	1448.1	1589.9	1635.2	1655.4	1747.2	1765.1
65°	5917.4	2419.4	1283.6	1181.1	1193.0	1348.0	1488.6	1562.5	1593.5	1707.9	1727.0
67.5°	5325.1	2194.2	1206.1	1081.0	1092.9	1243.1	1383.7	1463.6	1512.4	1665.0	1680.5
70°	4554.0	1918.8	1101.2	974.9	989.2	1128.7	1259.8	1350.3	1423.0	1624.5	1629.2
72.5°	3357.4	1573.2	954.7	858.1	873.6	995.2	1134.6	1239.5	1337.2	1523.2	1520.8
75°	1996.3	1230.0	792.6	740.1	750.9	864.1	1021.4	1148.9	1295.5	1483.8	1506.5
77.5°	1210.9	926.1	646.0	619.8	632.9	748.5	940.4	1076.2	1277.6	1399.2	1392.1
80°	731.8	661.5	516.1	499.4	512.5	640.0	870.0	1021.4	1116.7	1195.4	1195.4
82.5°	382.6	404.0	379.0	365.9	383.8	519.6	791.4	891.5	986.8	847.4	791.4
85°	156.1	211.0	230.0	228.8	239.6	359.9	682.9	762.8	636.4	604.3	618.6
87.5°	52.4	89.4	112.0	96.5	101.3	226.4	473.2	368.3	437.4	305.1	289.6
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)