

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: P318331

Luminaire Tested: **GAN-SA7C-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41848 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

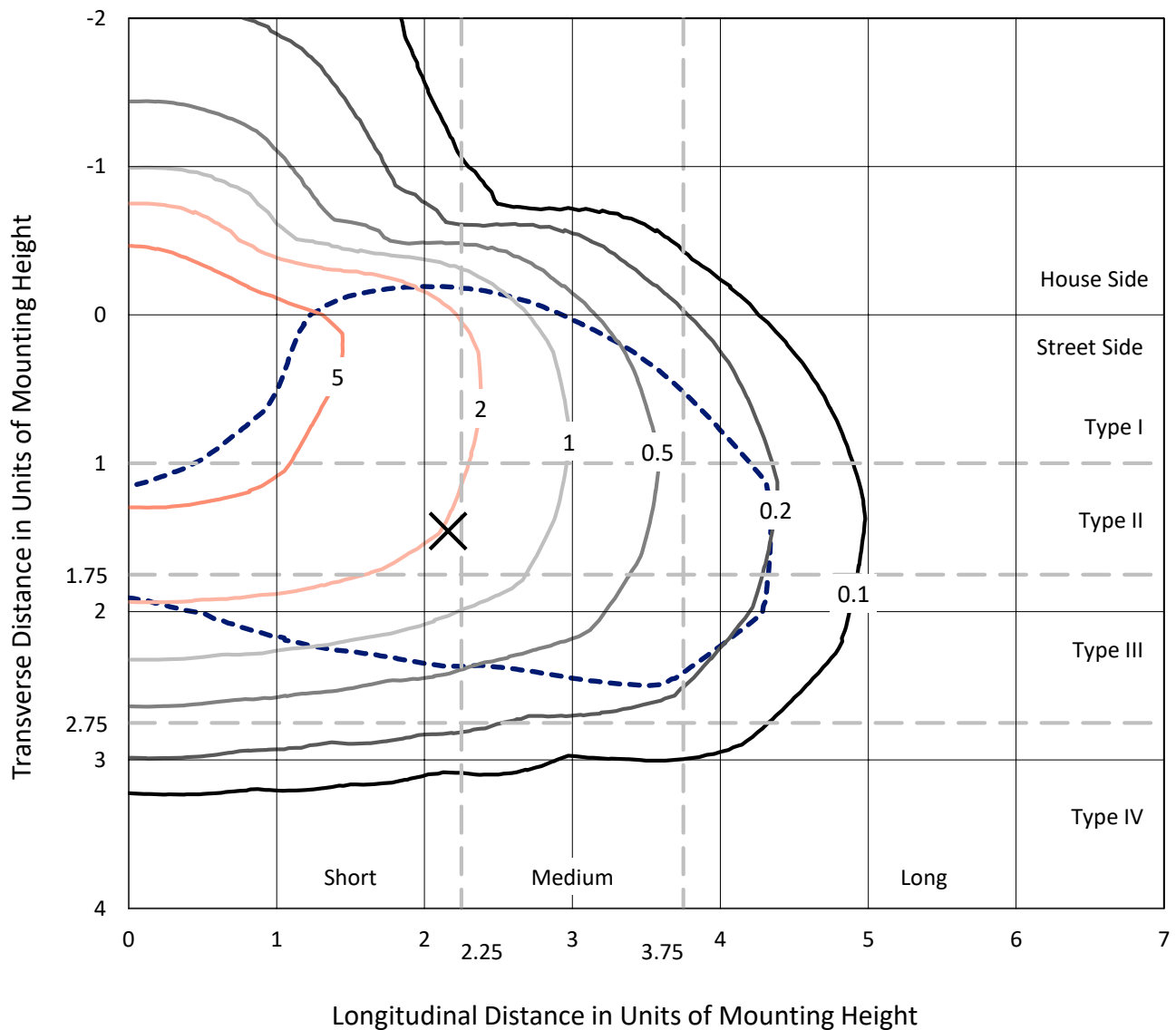
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

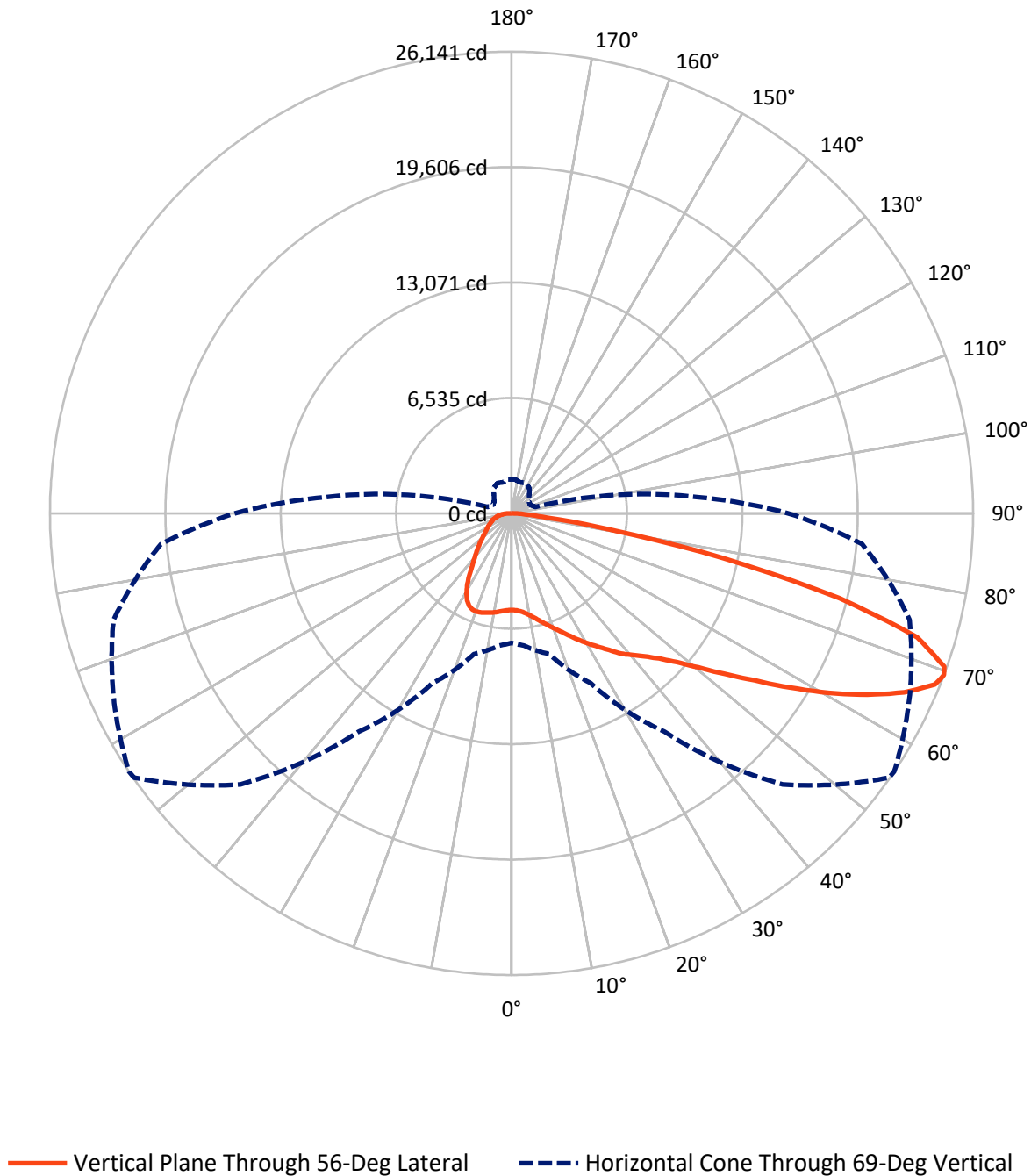
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9319.5	0.0	9319.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	32528.5	0.0	32528.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	41848.0	0.0	41848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.3	1.3
10°-20°	1727.9	4.1
20°-30°	3016.2	7.2
30°-40°	4332.7	10.4
40°-50°	5996.2	14.3
50°-60°	8785.2	21.0
60°-70°	10710.8	25.6
70°-80°	5921.6	14.2
80°-90°	820.2	2.0
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°	41848.0	100.0
0°-180°	41848.0	100.0

Coefficient of Utilization



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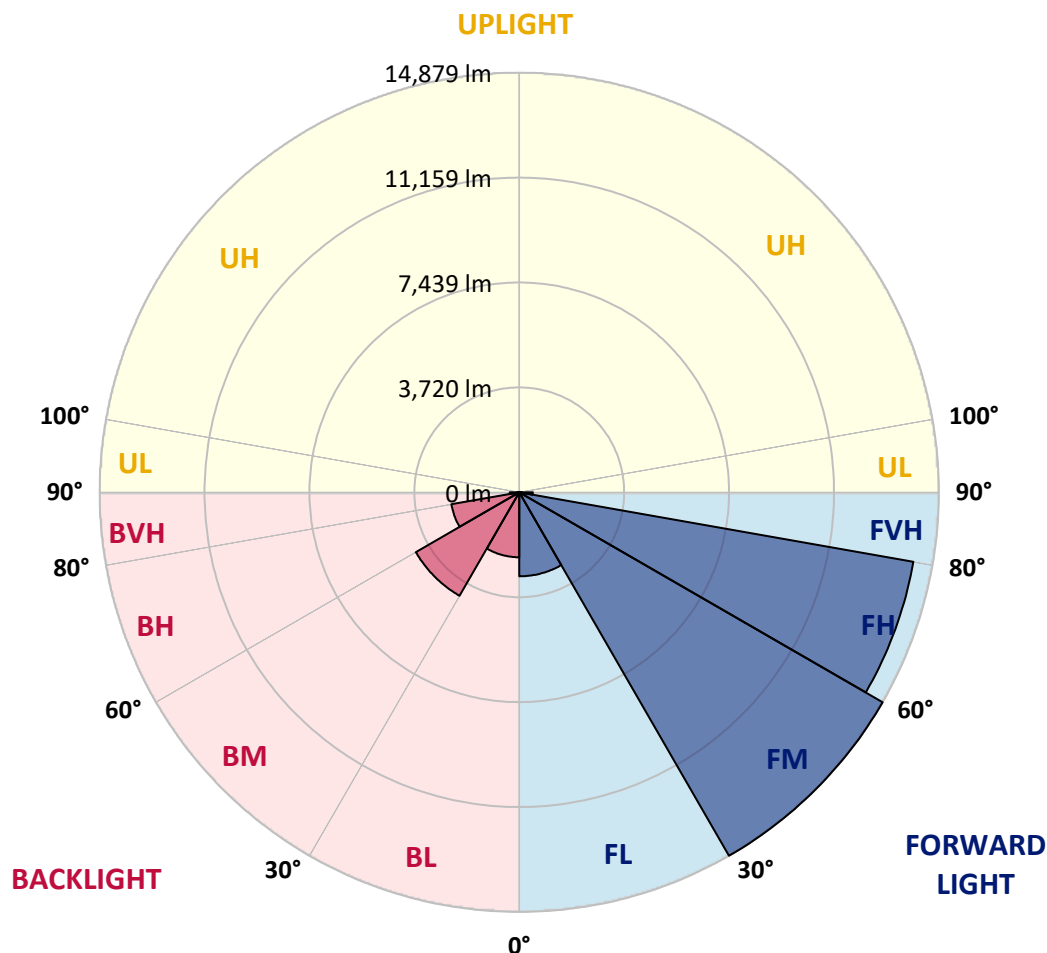
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2978.3	7.1			
FM	(30°-60°)	14878.5	35.6			
FH	(60°-80°)	14188.6	33.9			G5
FVH	(80°-90°)	483.1	1.2			G3/500
BL	(0°-30°)	2303.1	5.5	B3/2500		
BM	(30°-60°)	4235.5	10.1	B3/5000		
BH	(60°-80°)	2443.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	337.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0
2.5°	5505.6	5511.4	5507.0	5518.6	5505.6	5514.2	5507.0	5507.0	5502.7	5489.7	5475.3
5°	5592.1	5603.6	5596.4	5608.0	5592.1	5595.0	5582.0	5582.0	5569.0	5541.6	5512.8
7.5°	5727.6	5740.6	5734.8	5746.3	5724.7	5724.7	5707.4	5706.0	5680.0	5635.3	5602.2
10°	5889.1	5906.4	5900.6	5917.9	5900.6	5906.4	5889.1	5889.1	5854.5	5791.0	5749.2
12.5°	6124.1	6145.7	6129.8	6128.4	6121.2	6132.7	6118.3	6115.4	6083.7	5997.2	5939.5
15°	6438.3	6461.4	6428.2	6425.4	6385.0	6380.7	6380.7	6376.3	6356.2	6252.4	6157.2
17.5°	6800.2	6807.4	6778.6	6732.4	6680.5	6647.4	6643.0	6654.6	6654.6	6533.5	6382.1
20°	7154.8	7167.8	7144.7	7092.8	7026.5	6977.5	6942.9	6966.0	6964.5	6820.4	6605.6
22.5°	7541.2	7571.5	7536.9	7470.5	7392.7	7337.9	7277.4	7297.5	7299.0	7121.7	6824.7
25°	8041.4	8014.0	7992.4	7898.7	7787.7	7731.5	7675.3	7695.4	7689.7	7446.0	7051.0
27.5°	8484.0	8489.8	8460.9	8361.5	8233.2	8109.2	8106.3	8119.3	8097.7	7783.4	7264.4
30°	8998.7	9001.6	8961.2	8871.8	8732.0	8571.9	8534.5	8556.1	8510.0	8103.4	7489.3
32.5°	9510.5	9524.9	9480.2	9372.1	9259.6	9065.0	8990.0	9004.4	8889.1	8430.7	7721.4
35°	9958.8	9979.0	9964.6	9892.5	9769.9	9602.7	9513.3	9504.7	9362.0	8831.4	8028.5
37.5°	10415.8	10434.5	10418.7	10358.1	10309.1	10131.8	10084.2	10084.2	9836.3	9240.9	8419.1
40°	10885.8	10914.6	10895.9	10812.2	10770.4	10689.7	10575.8	10548.4	10280.3	9732.5	9056.3
42.5°	11322.6	11360.1	11435.0	11386.0	11301.0	11312.5	11083.3	11068.9	10872.8	10459.0	9856.4
45°	11942.5	11997.3	12124.1	12086.6	12069.3	12005.9	11733.4	11720.5	11645.5	11436.5	10849.7
47.5°	12618.6	12693.6	12922.8	12930.0	13116.0	12996.3	12625.8	12581.1	12598.4	12607.1	12062.1
50°	13241.4	13323.6	13699.8	13877.2	14315.4	14341.4	13748.9	13708.5	13776.2	13975.2	13474.9
52.5°	13738.8	13842.6	14312.5	14860.3	15611.4	15824.8	15131.4	15101.1	15151.6	15494.7	15072.3
55°	14103.5	14215.9	14727.7	15725.3	16924.8	17301.0	16722.9	16694.1	16725.8	17162.6	16809.4
57.5°	14188.5	14215.9	14958.4	16307.7	18033.4	18937.3	18670.6	18612.9	18457.2	18837.8	18726.8
60°	13789.2	13898.8	14768.1	16512.5	18891.2	20550.5	20706.2	20634.1	20197.3	20508.7	20419.3
62.5°	12979.0	13175.1	14057.4	16201.1	19227.1	21868.1	22702.8	22616.3	21863.8	22065.6	21636.0
65°	11655.6	11739.2	12666.2	15127.1	18800.3	22711.5	24483.2	24440.0	23492.8	23177.1	21860.9
67.5°	9288.4	9445.6	10232.7	12882.4	17054.5	22612.0	25860.0	25855.7	24556.8	23589.4	21063.7
69°	7337.9	7500.8	8250.5	10611.9	15091.0	21702.3	26090.7	26141.1	24856.6	23338.6	19924.8
70°	5850.1	6039.0	6553.7	8938.1	13348.1	20502.9	25898.9	25989.8	24799.0	22924.8	18873.9
72.5°	2489.7	2642.5	3008.7	4607.5	8135.1	15310.1	23680.3	24023.4	23462.6	20981.5	15598.5
75°	1087.0	1134.6	1300.4	1878.4	3611.3	8332.6	18550.9	19185.2	20061.8	17735.0	11619.6
77.5°	795.8	816.0	906.8	1102.8	1620.4	3147.1	11929.5	12298.6	14468.2	12905.5	7127.4
80°	615.6	630.0	700.6	810.2	1058.2	1273.0	5440.7	5757.9	8135.1	6628.6	2968.3
82.5°	490.2	500.2	549.3	596.8	730.9	771.3	1806.4	2003.9	3002.9	1830.9	785.7
85°	455.6	467.1	484.4	435.4	468.5	452.7	781.4	817.4	906.8	719.4	328.7
87.5°	206.2	243.6	480.1	338.8	249.4	198.9	320.0	334.5	376.3	377.7	145.6
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°	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0	5471.0
2.5°	5484.0	5479.6	5486.9	5469.6	5491.2	5489.7	5482.5	5485.4	5499.8	5498.4	5499.8
5°	5517.1	5514.2	5522.9	5509.9	5535.9	5544.5	5546.0	5558.9	5574.8	5579.1	5579.1
7.5°	5600.7	5600.7	5605.1	5587.8	5605.1	5603.6	5596.4	5609.4	5625.3	5626.7	5625.3
10°	5744.9	5746.3	5739.1	5694.4	5680.0	5641.1	5605.1	5606.5	5626.7	5642.6	5646.9
12.5°	5926.6	5920.8	5889.1	5806.9	5746.3	5667.1	5629.6	5628.1	5648.3	5661.3	5665.6
15°	6134.1	6118.3	6036.1	5902.0	5795.4	5717.5	5657.0	5642.6	5631.0	5616.6	5618.0
17.5°	6330.2	6294.2	6157.2	5971.2	5858.8	5755.0	5638.2	5544.5	5479.6	5442.2	5430.6
20°	6529.2	6458.5	6261.0	6036.1	5893.4	5704.5	5479.6	5289.4	5171.1	5116.4	5106.3
22.5°	6710.8	6596.9	6357.6	6103.9	5866.0	5534.4	5181.2	4904.4	4740.1	4666.6	4672.3
25°	6888.1	6729.5	6458.5	6151.4	5727.6	5234.6	4766.0	4425.8	4235.5	4153.3	4150.5
27.5°	7043.8	6863.6	6568.1	6112.5	5469.6	4807.8	4274.4	3942.9	3784.3	3713.6	3702.1
30°	7222.6	7032.3	6713.7	5964.0	5091.8	4314.8	3794.4	3560.8	3448.4	3377.7	3364.8
32.5°	7440.3	7261.5	6833.3	5694.4	4608.9	3800.1	3419.6	3256.6	3154.3	3075.0	3060.6
35°	7757.4	7564.2	6863.6	5308.1	4078.4	3393.6	3144.2	2977.0	2838.6	2736.2	2726.1
37.5°	8155.3	7943.4	6794.4	4807.8	3563.7	3129.8	2915.0	2708.8	2528.6	2384.5	2361.4
40°	8729.1	8409.0	6602.7	4231.2	3184.6	2926.5	2691.5	2456.5	2233.1	2064.4	2031.3
42.5°	9418.2	8955.4	6308.6	3657.4	2906.3	2720.4	2469.5	2178.3	1964.9	1845.3	1828.0
45°	10294.7	9523.4	5900.6	3155.7	2632.4	2514.2	2230.2	1962.1	1829.4	1741.5	1727.1
47.5°	11295.2	10160.6	5472.4	2747.8	2400.3	2321.0	2038.5	1865.5	1760.2	1691.0	1678.1
50°	12524.9	10880.0	5018.3	2413.3	2166.8	2088.9	1947.6	1812.1	1728.5	1675.2	1662.2
52.5°	13911.8	11691.6	4691.1	2149.5	1973.6	1917.4	1900.1	1783.3	1715.5	1675.2	1662.2
55°	15405.3	12517.7	4337.9	1927.5	1806.4	1822.2	1868.4	1786.2	1740.1	1691.0	1672.3
57.5°	16900.3	13371.1	3944.3	1740.1	1673.7	1751.6	1846.7	1791.9	1753.0	1705.5	1688.2
60°	18082.4	13911.8	3334.5	1582.9	1568.5	1673.7	1794.8	1748.7	1698.2	1699.7	1696.8
62.5°	18634.5	13882.9	2661.3	1443.1	1463.3	1568.5	1711.2	1680.9	1639.1	1695.4	1699.7
65°	18324.6	13190.9	2071.6	1316.2	1350.8	1458.9	1624.7	1647.8	1662.2	1770.3	1784.7
67.5°	17024.2	11844.5	1604.5	1205.2	1248.5	1384.0	1633.4	1794.8	1813.6	1927.5	1926.0
69°	15679.2	10581.6	1394.1	1147.5	1198.0	1402.7	1745.8	1888.5	1817.9	1939.0	1921.7
70°	14551.8	9582.5	1281.6	1108.6	1174.9	1435.9	1820.8	1887.1	1796.3	1900.1	1871.2
72.5°	11207.3	6893.9	1087.0	1036.5	1097.1	1373.9	1842.4	1845.3	1745.8	1766.0	1717.0
75°	7686.8	4356.6	948.6	938.5	978.9	1238.4	1773.2	1763.1	1614.6	1585.8	1545.4
77.5°	4238.4	2212.9	805.9	844.8	872.2	1097.1	1611.7	1597.3	1474.8	1414.2	1399.8
80°	1634.8	968.8	680.5	751.1	768.4	950.0	1412.8	1399.8	1297.5	1219.6	1198.0
82.5°	617.0	507.5	562.2	650.2	644.4	784.2	1196.6	1189.3	1089.9	976.0	941.4
85°	285.4	304.2	445.5	536.3	494.5	581.0	957.2	970.2	849.1	713.6	713.6
87.5°	121.1	170.1	315.7	405.1	333.0	392.1	702.1	670.4	615.6	426.7	400.8
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)