

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: P318381

Luminaire Tested: **GAN-SA7D-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318381
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-SA7D-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49991 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

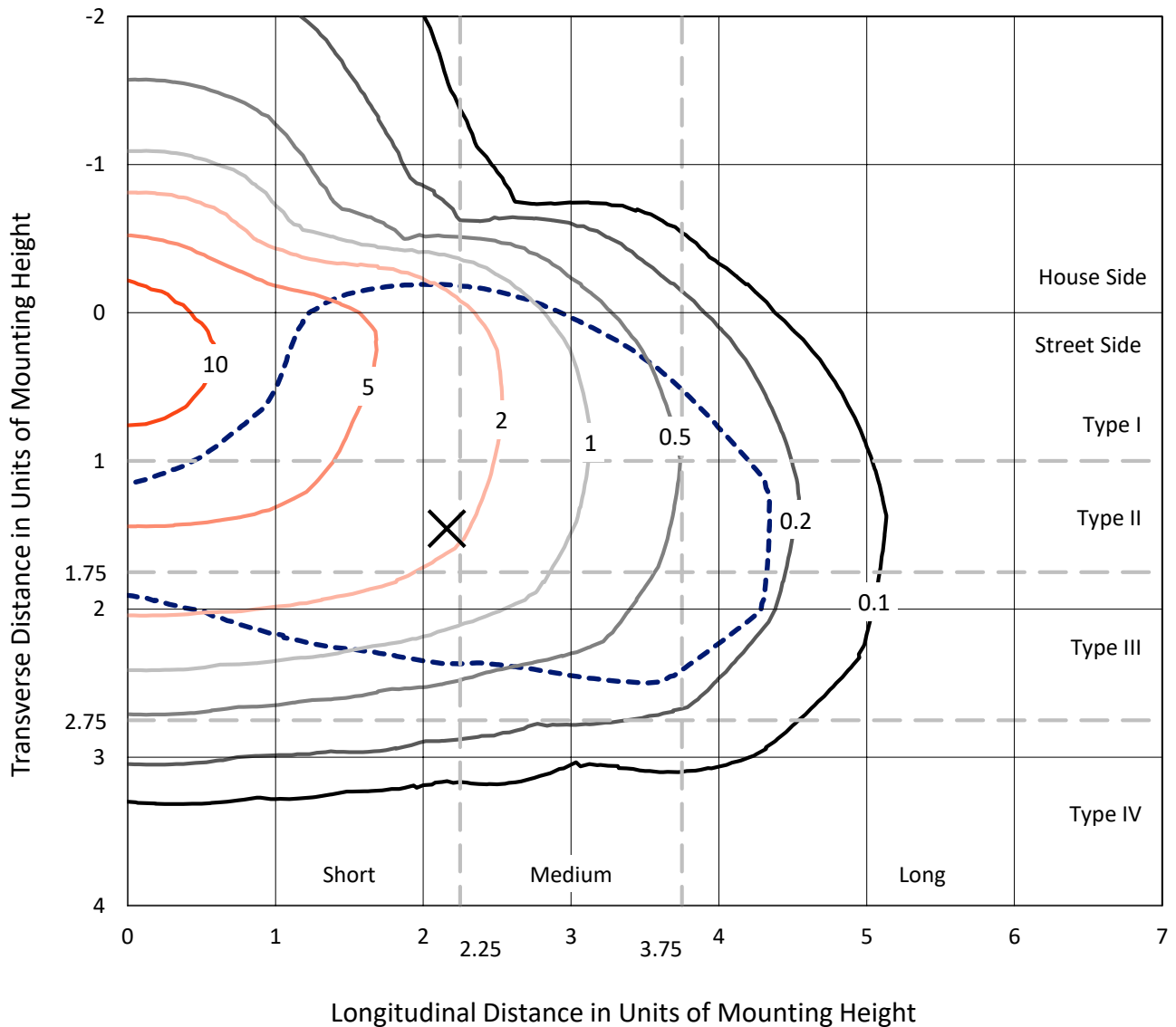
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

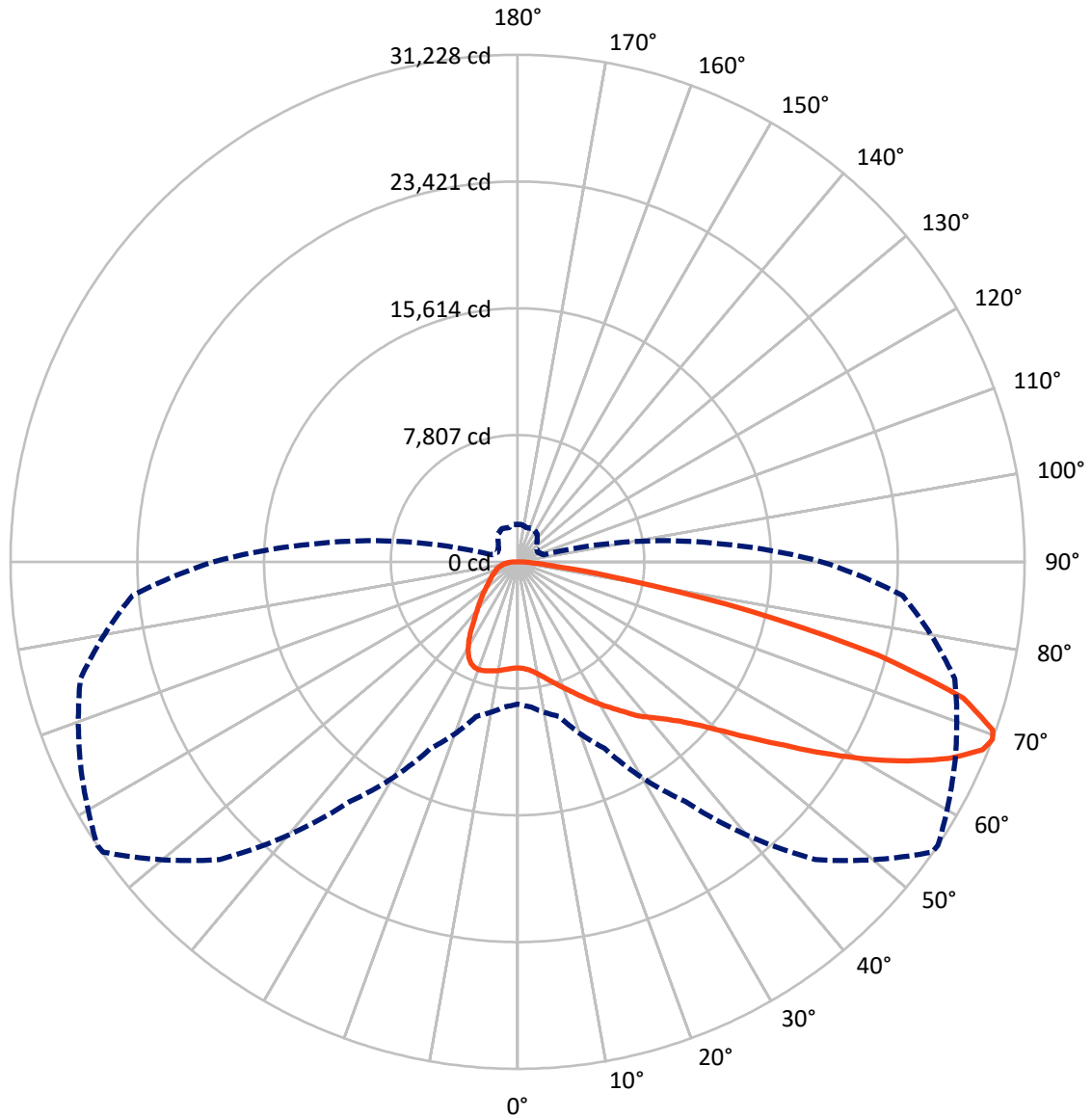
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11132.9	0.0	11132.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	38858.1	0.0	38858.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	49991.0	0.0	49991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.9	1.3
10°-20°	2064.1	4.1
20°-30°	3603.1	7.2
30°-40°	5175.7	10.4
40°-50°	7162.9	14.3
50°-60°	10494.7	21.0
60°-70°	12795.0	25.6
70°-80°	7073.9	14.2
80°-90°	979.7	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°	49991.0	100.0
0°-180°	49991.0	100.0

Coefficient of Utilization

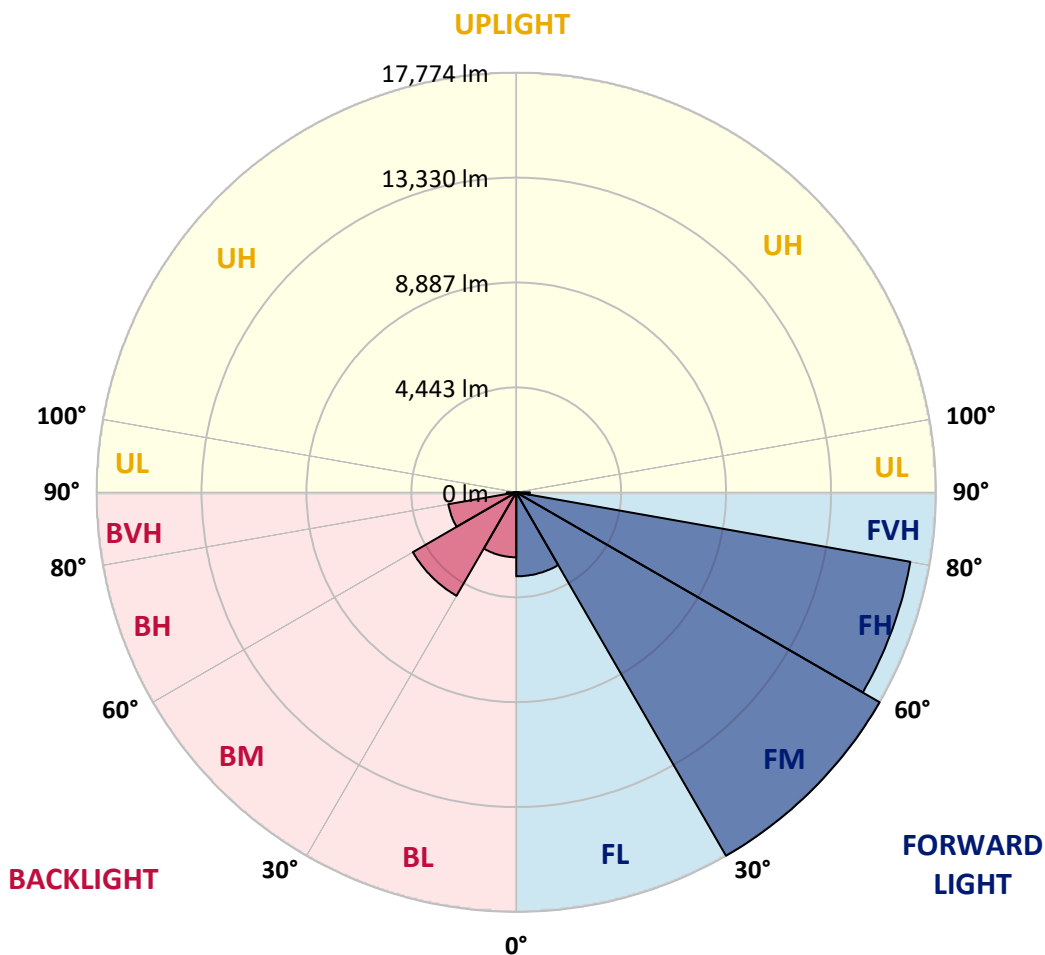


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3557.9	7.1			
FM (30°-60°)	17773.7	35.6			
FH (60°-80°)	16949.5	33.9			G5
FVH (80°-90°)	577.1	1.2			G4/750
BL (0°-30°)	2751.2	5.5	B4/5000		
BM (30°-60°)	5059.7	10.1	B4/8500		
BH (60°-80°)	2919.4	5.8	B4/5000		G4/5000
BVH (80°-90°)	402.6	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6
2.5°	6576.9	6583.8	6578.6	6592.4	6576.9	6587.2	6578.6	6578.6	6573.5	6558.0	6540.7
5°	6680.2	6694.0	6685.4	6699.2	6680.2	6683.7	6668.2	6668.2	6652.7	6620.0	6585.5
7.5°	6842.1	6857.6	6850.7	6864.5	6838.7	6838.7	6818.0	6816.3	6785.3	6731.9	6692.3
10°	7035.0	7055.7	7048.8	7069.4	7048.8	7055.7	7035.0	7035.0	6993.7	6917.9	6867.9
12.5°	7315.7	7341.5	7322.6	7320.9	7312.3	7326.0	7308.8	7305.4	7267.5	7164.2	7095.3
15°	7691.1	7718.7	7679.1	7675.6	7627.4	7622.2	7622.2	7617.1	7593.0	7469.0	7355.3
17.5°	8123.4	8132.0	8097.6	8042.5	7980.5	7940.8	7935.7	7949.5	7949.5	7804.8	7624.0
20°	8547.0	8562.5	8535.0	8473.0	8393.8	8335.2	8293.9	8321.4	8319.7	8147.5	7890.9
22.5°	9008.6	9044.7	9003.4	8924.2	8831.2	8765.8	8693.4	8717.5	8719.3	8507.4	8152.7
25°	9606.2	9573.4	9547.6	9435.7	9303.1	9235.9	9168.7	9192.9	9186.0	8894.9	8423.1
27.5°	10134.9	10141.8	10107.3	9988.5	9835.2	9687.1	9683.7	9699.2	9673.3	9297.9	8677.9
30°	10749.7	10753.1	10704.9	10598.1	10431.1	10239.9	10195.1	10221.0	10165.9	9680.2	8946.6
32.5°	11361.0	11378.3	11324.9	11195.7	11061.4	10828.9	10739.3	10756.6	10618.8	10071.2	9223.9
35°	11896.6	11920.7	11903.5	11817.4	11671.0	11471.3	11364.5	11354.2	11183.7	10549.9	9590.7
37.5°	12442.6	12464.9	12446.0	12373.7	12315.1	12103.3	12046.5	12046.5	11750.3	11039.0	10057.4
40°	13004.0	13038.4	13016.0	12916.1	12866.2	12769.8	12633.7	12601.0	12280.7	11626.3	10818.6
42.5°	13525.8	13570.6	13660.1	13601.6	13500.0	13513.7	13239.9	13222.7	12988.5	12494.2	11774.4
45°	14266.3	14331.8	14483.3	14438.5	14417.9	14342.1	14016.6	14001.1	13911.6	13661.8	12960.9
47.5°	15074.0	15163.6	15437.4	15446.0	15668.1	15525.2	15082.6	15029.2	15049.9	15060.2	14409.3
50°	15818.0	15916.1	16365.6	16577.4	17101.0	17132.0	16424.2	16376.0	16456.9	16694.6	16097.0
52.5°	16412.1	16536.1	17097.5	17752.0	18649.2	18904.1	18075.7	18039.6	18099.8	18509.7	18005.1
55°	16847.8	16982.2	17593.5	18785.2	20218.1	20667.6	19977.0	19942.5	19980.4	20502.2	20080.3
57.5°	16949.4	16982.2	17869.1	19481.0	21542.4	22622.2	22303.6	22234.7	22048.7	22503.4	22370.8
60°	16472.4	16603.3	17641.7	19725.5	22567.1	24549.3	24735.3	24649.2	24127.4	24499.3	24392.6
62.5°	15504.5	15738.8	16792.7	19353.6	22968.4	26123.3	27120.5	27017.1	26118.2	26359.3	25846.1
65°	13923.6	14023.5	15130.8	18070.6	22458.6	27130.8	29247.3	29195.7	28064.2	27687.1	26114.7
67.5°	11095.8	11283.5	12223.8	15389.2	20373.1	27012.0	30892.0	30886.8	29335.2	28179.6	25162.4
69°	8765.8	8960.4	9855.9	12676.8	18027.5	25925.3	31167.5	31227.8	29693.4	27879.9	23801.9
70°	6988.5	7214.1	7828.9	10677.3	15945.4	24492.5	30938.5	31047.0	29624.5	27385.7	22546.4
72.5°	2974.2	3156.7	3594.1	5504.0	9718.1	18289.3	28288.1	28698.0	28028.0	25064.2	18633.7
75°	1298.5	1355.3	1553.4	2244.0	4314.0	9954.0	22160.7	22918.4	23965.5	21185.9	13880.6
77.5°	950.6	974.7	1083.2	1317.4	1935.7	3759.5	14250.8	14691.7	17283.5	15416.7	8514.3
80°	735.4	752.6	837.0	967.9	1264.1	1520.7	6499.4	6878.3	9718.1	7918.5	3545.9
82.5°	585.5	597.6	656.1	713.0	873.1	921.4	2157.9	2393.8	3587.2	2187.1	938.6
85°	544.2	558.0	578.6	520.1	559.7	540.8	933.4	976.5	1083.2	859.4	392.7
87.5°	246.3	291.0	573.5	404.7	297.9	237.7	382.3	399.5	449.5	451.2	173.9
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°	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6	6535.6
2.5°	6551.1	6545.9	6554.5	6533.8	6559.7	6558.0	6549.3	6552.8	6570.0	6568.3	6570.0
5°	6590.7	6587.2	6597.6	6582.1	6613.1	6623.4	6625.1	6640.6	6659.6	6664.7	6664.7
7.5°	6690.6	6690.6	6695.7	6675.1	6695.7	6694.0	6685.4	6700.9	6719.8	6721.6	6719.8
10°	6862.8	6864.5	6855.9	6802.5	6785.3	6738.8	6695.7	6697.5	6721.6	6740.5	6745.7
12.5°	7079.8	7072.9	7035.0	6936.8	6864.5	6769.8	6725.0	6723.3	6747.4	6762.9	6768.1
15°	7327.8	7308.8	7210.7	7050.5	6923.1	6830.1	6757.7	6740.5	6726.7	6709.5	6711.2
17.5°	7562.0	7518.9	7355.3	7133.2	6998.8	6874.8	6735.3	6623.4	6545.9	6501.1	6487.4
20°	7799.6	7715.2	7479.3	7210.7	7040.2	6814.6	6545.9	6318.6	6177.4	6111.9	6099.9
22.5°	8016.6	7880.6	7594.7	7291.6	7007.4	6611.3	6189.4	5858.8	5662.4	5574.6	5581.5
25°	8228.4	8039.0	7715.2	7348.4	6842.1	6253.1	5693.4	5287.0	5059.7	4961.5	4958.1
27.5°	8414.4	8199.2	7846.1	7301.9	6533.8	5743.4	5106.2	4710.1	4520.7	4436.3	4422.5
30°	8628.0	8400.7	8020.1	7124.5	6082.6	5154.4	4532.7	4253.7	4119.4	4035.0	4019.5
32.5°	8888.0	8674.5	8163.0	6802.5	5505.7	4539.6	4084.9	3890.3	3768.1	3673.4	3656.1
35°	9266.9	9036.1	8199.2	6341.0	4872.0	4053.9	3756.0	3556.2	3390.9	3268.6	3256.6
37.5°	9742.2	9489.1	8116.5	5743.4	4257.2	3738.8	3482.2	3235.9	3020.7	2848.4	2820.9
40°	10427.6	10045.3	7887.5	5054.5	3804.2	3496.0	3215.3	2934.5	2667.6	2466.1	2426.5
42.5°	11250.8	10698.0	7536.1	4369.1	3471.9	3249.7	2950.0	2602.2	2347.3	2204.4	2183.7
45°	12297.9	11376.5	7048.8	3769.8	3144.7	3003.4	2664.2	2343.9	2185.4	2080.4	2063.1
47.5°	13493.1	12137.7	6537.3	3282.4	2867.4	2772.7	2435.1	2228.5	2102.7	2020.1	2004.6
50°	14962.1	12997.1	5994.8	2882.9	2588.4	2495.4	2326.6	2164.7	2064.9	2001.1	1985.6
52.5°	16618.8	13966.7	5603.9	2567.7	2357.6	2290.5	2269.8	2130.3	2049.4	2001.1	1985.6
55°	18402.9	14953.5	5182.0	2302.5	2157.9	2176.8	2231.9	2133.7	2078.6	2020.1	1997.7
57.5°	20188.8	15973.0	4711.8	2078.6	1999.4	2092.4	2206.1	2140.6	2094.1	2037.3	2016.6
60°	21601.0	16618.8	3983.3	1890.9	1873.7	1999.4	2144.1	2089.0	2028.7	2030.4	2027.0
62.5°	22260.6	16584.3	3179.1	1723.9	1748.0	1873.7	2044.2	2008.0	1958.1	2025.3	2030.4
65°	21890.3	15757.7	2474.7	1572.3	1613.7	1742.8	1940.9	1968.4	1985.6	2114.8	2132.0
67.5°	20336.9	14149.2	1916.8	1439.7	1491.4	1653.3	1951.2	2144.1	2166.5	2302.5	2300.8
69°	18730.1	12640.6	1665.3	1370.8	1431.1	1675.7	2085.5	2256.0	2171.6	2316.3	2295.6
70°	17383.4	11447.2	1531.0	1324.3	1403.6	1715.3	2175.1	2254.3	2145.8	2269.8	2235.4
72.5°	13388.0	8235.3	1298.5	1238.2	1310.6	1641.2	2200.9	2204.4	2085.5	2109.6	2051.1
75°	9182.5	5204.3	1133.2	1121.1	1169.3	1479.3	2118.2	2106.2	1928.8	1894.4	1846.1
77.5°	5063.1	2643.5	962.7	1009.2	1041.9	1310.6	1925.4	1908.1	1761.8	1689.4	1672.2
80°	1952.9	1157.3	812.9	897.2	917.9	1134.9	1687.7	1672.2	1549.9	1456.9	1431.1
82.5°	737.1	606.2	671.6	776.7	769.8	936.9	1429.4	1420.8	1301.9	1165.9	1124.6
85°	341.0	363.4	532.1	640.6	590.7	694.0	1143.5	1159.0	1014.3	852.5	852.5
87.5°	144.7	203.2	377.2	483.9	397.8	468.4	838.7	800.8	735.4	509.8	478.8
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)