

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: P318443

Luminaire Tested: **GAN-SA9B-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318443
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-SA9B-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51098 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

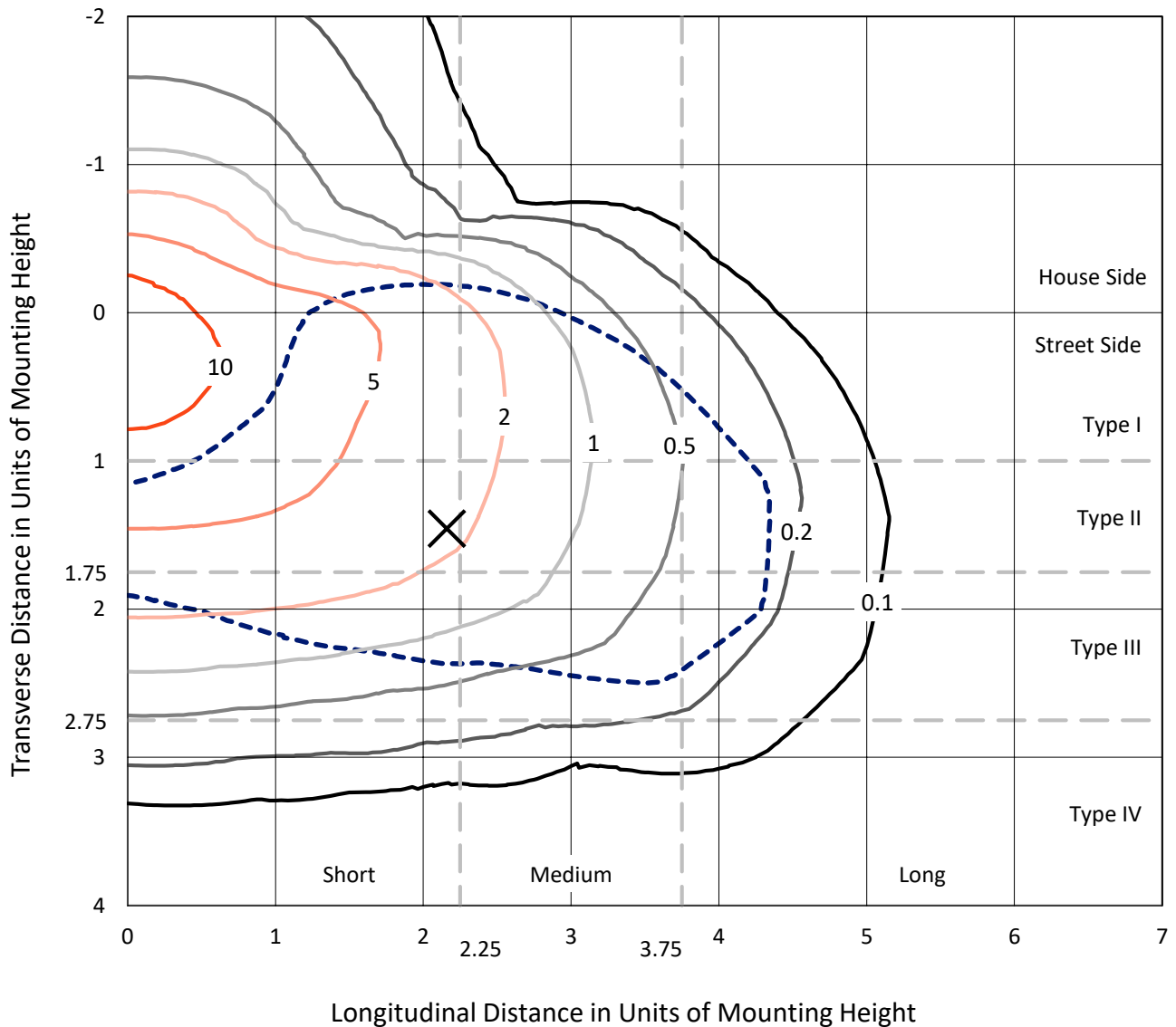
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

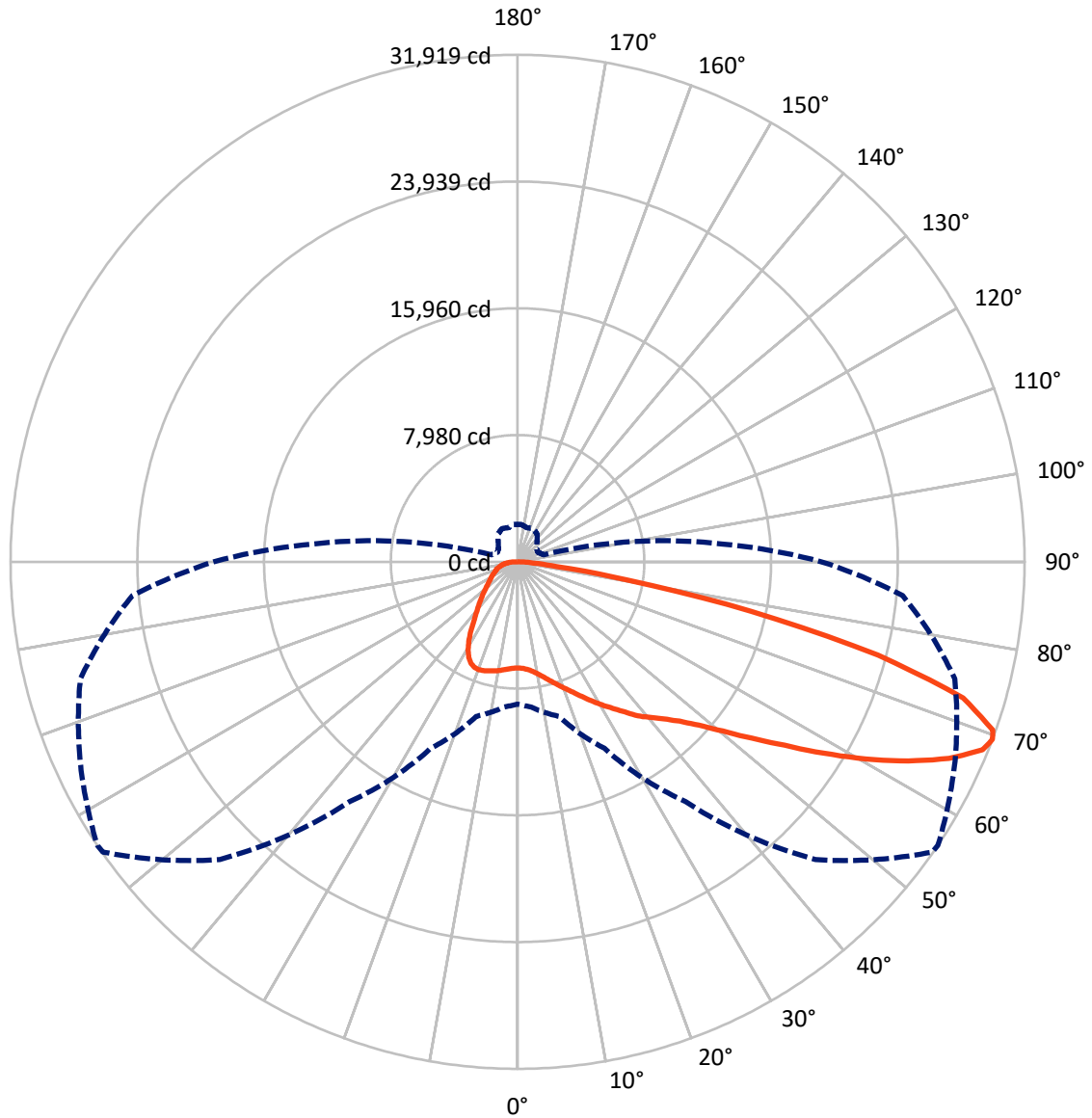
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	11379.4	0.0	11379.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	39718.6	0.0	39718.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	51098.0	0.0	51098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.1	1.3
10°-20°	2109.8	4.1
20°-30°	3682.9	7.2
30°-40°	5290.3	10.4
40°-50°	7321.5	14.3
50°-60°	10727.1	21.0
60°-70°	13078.3	25.6
70°-80°	7230.5	14.2
80°-90°	1001.4	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°	51098.0	100.0
0°-180°	51098.0	100.0

Coefficient of Utilization

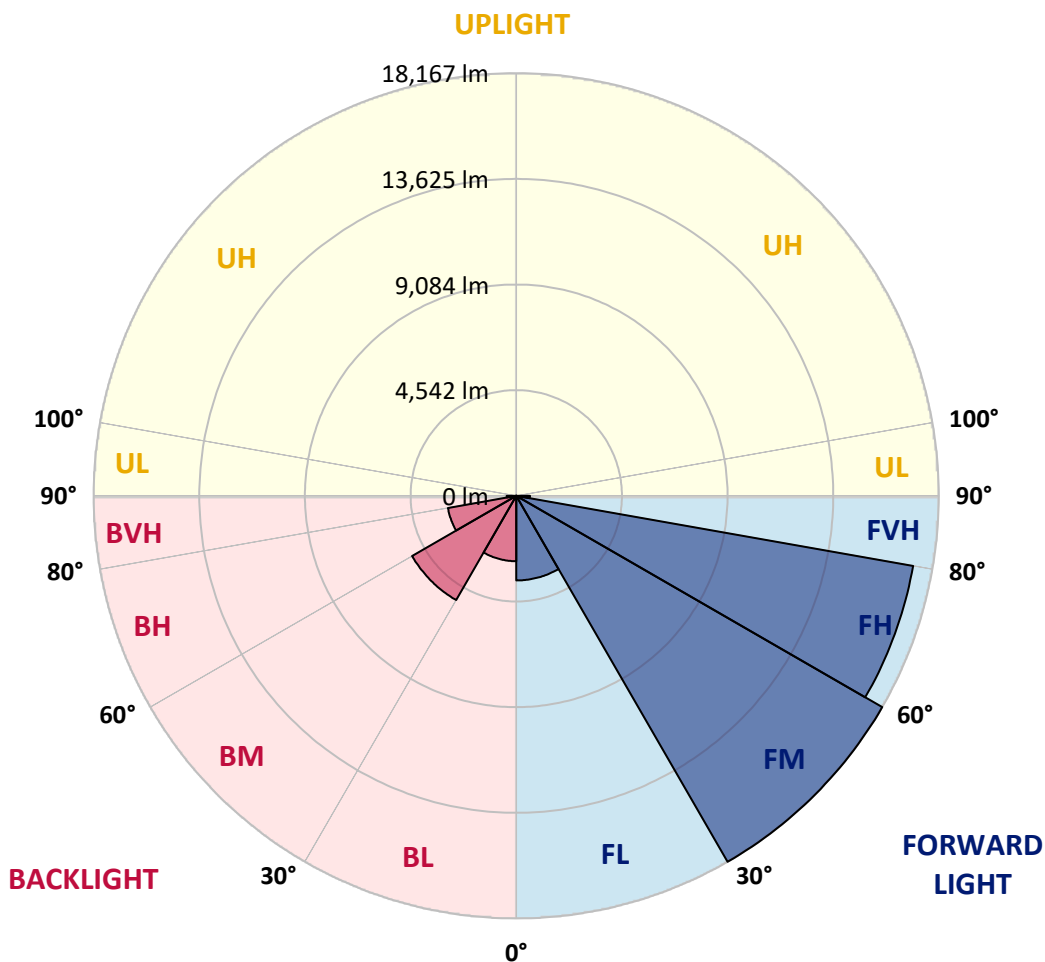


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3636.7	7.1			
FM (30°-60°)	18167.2	35.6			
FH (60°-80°)	17324.8	33.9			G5
FVH (80°-90°)	589.9	1.2			G4/750
BL (0°-30°)	2812.1	5.5	B4/5000		
BM (30°-60°)	5171.7	10.1	B4/8500		
BH (60°-80°)	2984.1	5.8	B4/5000		G4/5000
BVH (80°-90°)	411.6	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°	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3
2.5°	6722.5	6729.6	6724.3	6738.4	6722.5	6733.1	6724.3	6724.3	6719.0	6703.2	6685.6
5°	6828.2	6842.2	6833.4	6847.5	6828.2	6831.7	6815.8	6815.8	6800.0	6766.5	6731.3
7.5°	6993.6	7009.5	7002.4	7016.5	6990.1	6990.1	6969.0	6967.2	6935.5	6881.0	6840.5
10°	7190.8	7211.9	7204.9	7226.0	7204.9	7211.9	7190.8	7190.8	7148.5	7071.1	7020.0
12.5°	7477.7	7504.1	7484.7	7483.0	7474.2	7488.3	7470.7	7467.1	7428.4	7322.8	7252.4
15°	7861.4	7889.6	7849.1	7845.6	7796.3	7791.0	7791.0	7785.8	7761.1	7634.4	7518.2
17.5°	8303.3	8312.1	8276.9	8220.5	8157.2	8116.7	8111.4	8125.5	8125.5	7977.6	7792.8
20°	8736.3	8752.2	8724.0	8660.6	8579.6	8519.8	8477.5	8505.7	8504.0	8327.9	8065.6
22.5°	9208.1	9245.0	9202.8	9121.8	9026.8	8959.9	8885.9	8910.6	8912.3	8695.8	8333.2
25°	9818.9	9785.4	9759.0	9644.6	9509.1	9440.4	9371.8	9396.4	9389.4	9091.9	8609.6
27.5°	10359.3	10366.3	10331.1	10209.7	10053.0	9901.6	9898.1	9913.9	9887.5	9503.8	8870.1
30°	10987.7	10991.2	10942.0	10832.8	10662.1	10466.7	10420.9	10447.3	10391.0	9894.6	9144.7
32.5°	11612.6	11630.2	11575.7	11443.6	11306.3	11068.7	10977.2	10994.8	10853.9	10294.2	9428.1
35°	12160.1	12184.7	12167.1	12079.1	11929.5	11725.3	11616.1	11605.6	11431.3	10783.5	9803.0
37.5°	12718.1	12741.0	12721.6	12647.7	12587.8	12371.3	12313.2	12313.2	12010.4	11283.4	10280.1
40°	13291.9	13327.1	13304.3	13202.2	13151.1	13052.5	12913.5	12880.0	12552.6	11883.7	11058.1
42.5°	13825.3	13871.1	13962.6	13902.8	13798.9	13813.0	13533.1	13515.5	13276.1	12770.9	12035.1
45°	14582.2	14649.1	14804.0	14758.3	14737.1	14659.7	14327.0	14311.1	14219.6	13964.4	13247.9
47.5°	15407.8	15499.3	15779.2	15788.0	16015.1	15869.0	15416.6	15362.0	15383.2	15393.7	14728.3
50°	16168.2	16268.6	16728.0	16944.5	17479.7	17511.3	16787.9	16738.6	16821.3	17064.2	16453.4
52.5°	16775.5	16902.3	17476.1	18145.1	19062.2	19322.7	18476.0	18439.0	18500.6	18919.6	18403.8
55°	17220.9	17358.2	17983.1	19201.2	20665.8	21125.2	20419.3	20384.1	20422.9	20956.2	20525.0
57.5°	17324.8	17358.2	18264.8	19912.4	22019.4	23123.1	22797.5	22727.1	22537.0	23001.7	22866.1
60°	16837.2	16970.9	18032.4	20162.3	23066.8	25092.9	25283.0	25195.0	24661.6	25041.9	24932.7
62.5°	15847.9	16087.3	17164.6	19782.1	23477.0	26701.8	27721.0	27615.4	26696.5	26943.0	26418.4
65°	14231.9	14334.0	15465.9	18470.7	22955.9	27731.6	29895.0	29842.2	28685.7	28300.2	26693.0
67.5°	11341.5	11533.4	12494.5	15729.9	20824.2	27610.1	31576.1	31570.8	29984.8	28803.6	25719.6
69°	8959.9	9158.8	10074.1	12957.5	18426.7	26499.4	31857.7	31919.3	30350.9	28497.3	24328.9
70°	7143.3	7373.8	8002.3	10913.8	16298.5	25034.8	31623.6	31734.5	30280.5	27992.1	23045.7
72.5°	3040.0	3226.6	3673.7	5625.9	9933.3	18694.3	28914.5	29333.4	28648.7	25619.2	19046.3
75°	1327.3	1385.3	1587.8	2293.7	4409.5	10174.5	22651.4	23425.9	24496.2	21655.1	14187.9
77.5°	971.7	996.3	1107.2	1346.6	1978.6	3842.7	14566.4	15017.0	17666.3	15758.1	8702.9
80°	751.6	769.2	855.5	989.3	1292.1	1554.3	6643.3	7030.6	9933.3	8093.8	3624.4
82.5°	598.5	610.8	670.7	728.8	892.5	941.8	2205.6	2446.8	3666.7	2235.6	959.4
85°	556.3	570.3	591.5	531.6	572.1	552.7	954.1	998.1	1107.2	878.4	401.3
87.5°	251.7	297.5	586.2	413.7	304.5	242.9	390.8	408.4	459.4	461.2	177.8
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°	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3	6680.3
2.5°	6696.1	6690.9	6699.7	6678.5	6704.9	6703.2	6694.4	6697.9	6715.5	6713.7	6715.5
5°	6736.6	6733.1	6743.7	6727.8	6759.5	6770.1	6771.8	6787.7	6807.0	6812.3	6812.3
7.5°	6838.7	6838.7	6844.0	6822.9	6844.0	6842.2	6833.4	6849.3	6868.6	6870.4	6868.6
10°	7014.7	7016.5	7007.7	6953.1	6935.5	6888.0	6844.0	6845.8	6870.4	6889.8	6895.0
12.5°	7236.5	7229.5	7190.8	7090.4	7016.5	6919.7	6873.9	6872.2	6896.8	6912.7	6917.9
15°	7490.0	7470.7	7370.3	7206.6	7076.4	6981.3	6907.4	6889.8	6875.7	6858.1	6859.8
17.5°	7729.4	7685.4	7518.2	7291.1	7153.8	7027.1	6884.5	6770.1	6690.9	6645.1	6631.0
20°	7972.3	7886.1	7644.9	7370.3	7196.1	6965.5	6690.9	6458.5	6314.2	6247.3	6234.9
22.5°	8194.1	8055.1	7762.9	7453.1	7162.6	6757.7	6326.5	5988.5	5787.8	5698.1	5705.1
25°	8410.7	8217.0	7886.1	7511.2	6993.6	6391.6	5819.5	5404.1	5171.7	5071.4	5067.9
27.5°	8600.8	8380.7	8019.9	7463.6	6678.5	5870.6	5219.3	4814.4	4620.8	4534.5	4520.4
30°	8819.0	8586.7	8197.7	7282.3	6217.3	5268.5	4633.1	4347.9	4210.6	4124.4	4108.5
32.5°	9084.8	8866.6	8343.8	6953.1	5627.6	4640.1	4175.4	3976.5	3851.5	3754.7	3737.1
35°	9472.1	9236.2	8380.7	6481.4	4979.9	4143.7	3839.2	3635.0	3466.0	3341.0	3328.7
37.5°	9958.0	9699.2	8296.2	5870.6	4351.4	3821.6	3559.3	3307.6	3087.5	2911.5	2883.4
40°	10658.5	10267.8	8062.1	5166.4	3888.5	3573.4	3286.5	2999.5	2726.7	2520.7	2480.2
42.5°	11500.0	10934.9	7703.0	4465.9	3548.7	3321.7	3015.4	2659.8	2399.3	2253.2	2232.0
45°	12570.2	11628.5	7204.9	3853.3	3214.3	3069.9	2723.2	2395.8	2233.8	2126.4	2108.8
47.5°	13791.9	12406.5	6682.1	3355.1	2930.9	2834.1	2489.0	2277.8	2149.3	2064.8	2049.0
50°	15293.4	13284.9	6127.6	2946.7	2645.7	2550.7	2378.1	2212.7	2110.6	2045.5	2029.6
52.5°	16986.8	14275.9	5728.0	2624.6	2409.8	2341.2	2320.1	2177.5	2094.7	2045.5	2029.6
55°	18810.4	15284.6	5296.7	2353.5	2205.6	2225.0	2281.3	2181.0	2124.7	2064.8	2041.9
57.5°	20635.9	16326.7	4816.1	2124.7	2043.7	2138.8	2254.9	2188.0	2140.5	2082.4	2061.3
60°	22079.3	16986.8	4071.5	1932.8	1915.2	2043.7	2191.6	2135.2	2073.6	2075.4	2071.9
62.5°	22753.5	16951.6	3249.5	1762.0	1786.7	1915.2	2089.5	2052.5	2001.4	2070.1	2075.4
65°	22375.0	16106.6	2529.5	1607.1	1649.4	1781.4	1983.8	2012.0	2029.6	2161.6	2179.2
67.5°	20787.2	14462.5	1959.2	1471.6	1524.4	1689.9	1994.4	2191.6	2214.4	2353.5	2351.7
69°	19144.9	12920.5	1702.2	1401.2	1462.8	1712.8	2131.7	2306.0	2219.7	2367.6	2346.5
70°	17768.4	11700.6	1564.9	1353.7	1434.6	1753.2	2223.2	2304.2	2193.3	2320.1	2284.9
72.5°	13684.5	8417.7	1327.3	1265.6	1339.6	1677.6	2249.6	2253.2	2131.7	2156.4	2096.5
75°	9385.9	5319.6	1158.3	1145.9	1195.2	1512.1	2165.2	2152.8	1971.5	1936.3	1887.0
77.5°	5175.2	2702.0	984.0	1031.5	1065.0	1339.6	1968.0	1950.4	1800.8	1726.8	1709.2
80°	1996.2	1182.9	830.9	917.1	938.2	1160.0	1725.1	1709.2	1584.3	1489.2	1462.8
82.5°	753.4	619.6	686.5	793.9	786.8	957.6	1461.0	1452.2	1330.8	1191.7	1149.5
85°	348.5	371.4	543.9	654.8	603.8	709.4	1168.8	1184.7	1036.8	871.3	871.3
87.5°	147.9	207.7	385.5	494.6	406.6	478.8	857.3	818.5	751.6	521.0	489.4
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)