

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: P193287

Luminaire Tested: **GAN-AF-09-LED-U-T4FT-7030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T4FT-7030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56797.3 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 575
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: 28.75 FT

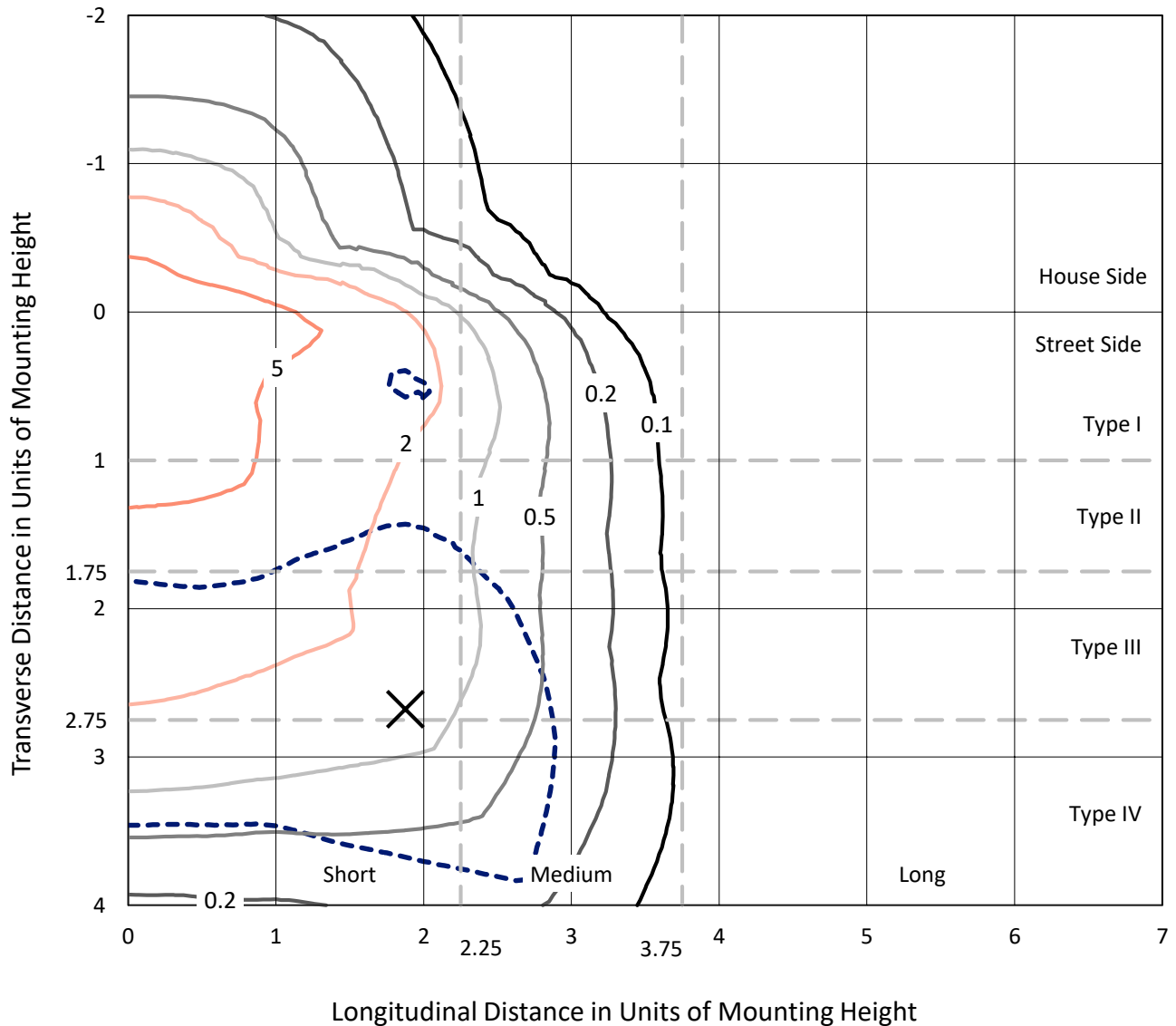


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

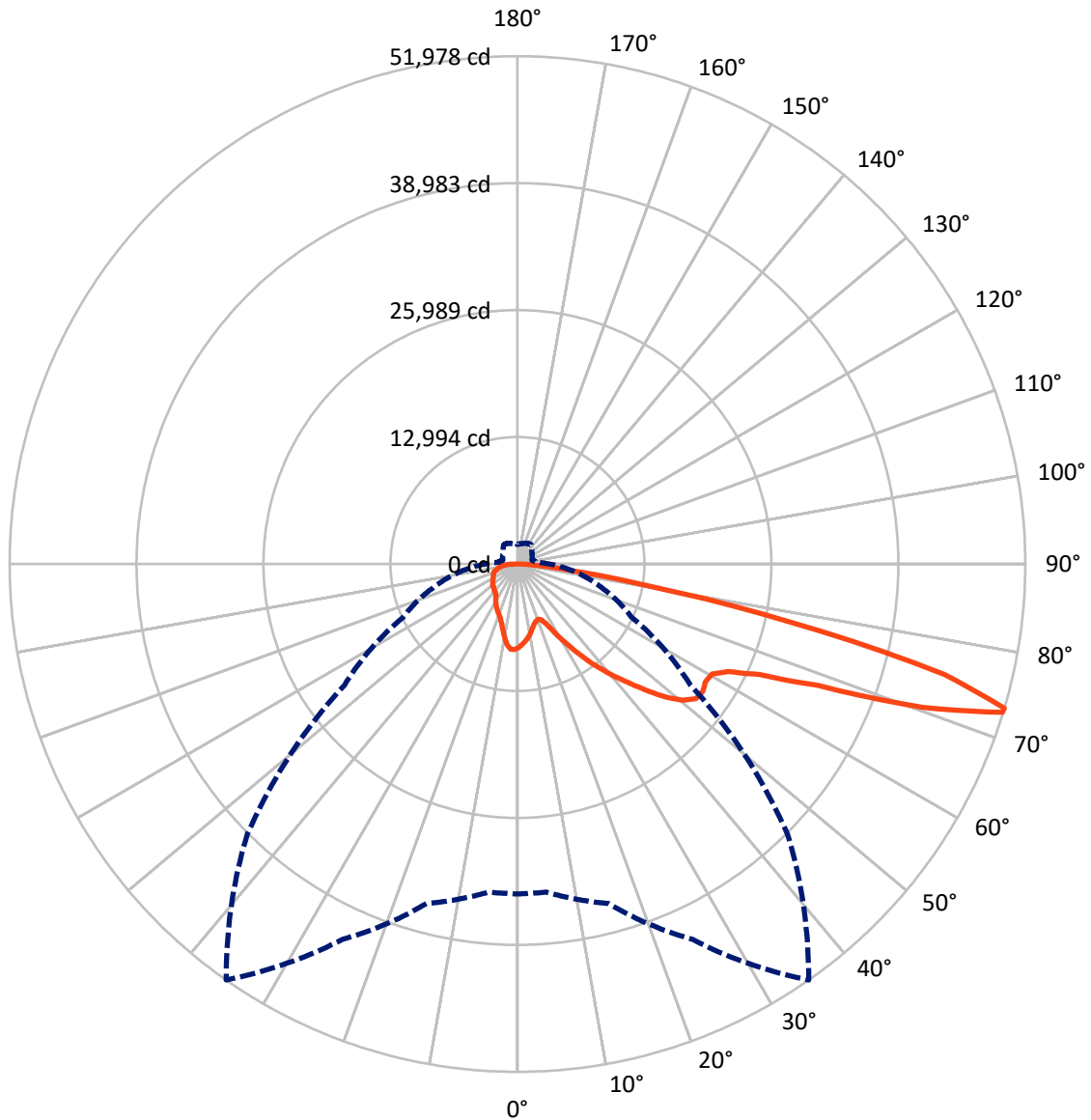


Based on 30 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10832.8	0.0	10832.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	45964.5	0.0	45964.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	56797.3	0.0	56797.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.1	1.4
10°-20°	1936.9	3.4
20°-30°	3131.3	5.5
30°-40°	5250.8	9.2
40°-50°	8093.8	14.3
50°-60°	10858.7	19.1
60°-70°	14466.0	25.5
70°-80°	11033.2	19.4
80°-90°	1250.6	2.2
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°	56797.3	100.0
0°-180°	56797.3	100.0

Coefficient of Utilization



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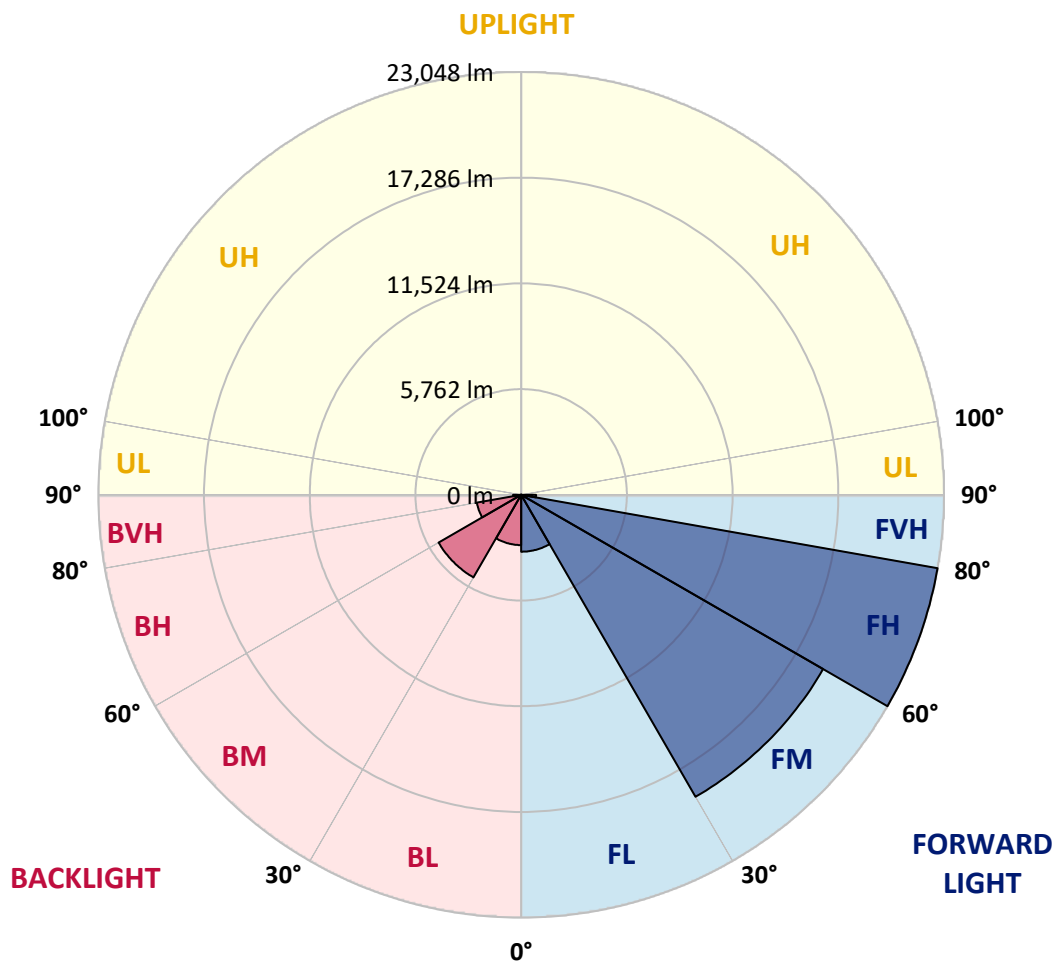
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3103.1	5.5			
FM	(30°-60°)	19004.8	33.5			
FH	(60°-80°)	23048.3	40.6			G5
FVH	(80°-90°)	808.4	1.4			G5
BL	(0°-30°)	2741.2	4.8	B4/5000		
BM	(30°-60°)	5198.5	9.2	B4/8500		
BH	(60°-80°)	2450.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	442.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8572.5	8572.5	8572.5	8572.5	8572.5	8572.5	8572.5	8572.5	8572.5	8572.5	8572.5
2.5°	8234.4	8250.6	8231.6	8256.0	8297.0	8340.7	8370.7	8414.3	8463.3	8531.6	8547.9
5°	7847.0	7871.5	7871.5	7915.2	7994.3	8065.2	8130.6	8201.5	8305.3	8422.5	8468.8
7.5°	7421.4	7435.1	7459.6	7525.1	7639.7	7740.6	7833.4	7947.8	8089.7	8245.1	8326.9
10°	6908.7	6927.8	6966.1	7058.7	7214.2	7353.2	7487.0	7645.1	7825.1	8018.7	8122.5
12.5°	6545.9	6540.5	6556.8	6625.1	6761.4	6930.6	7124.1	7326.1	7547.0	7773.4	7898.8
15°	6423.3	6393.2	6330.5	6314.1	6387.8	6556.8	6780.5	7028.7	7293.3	7566.1	7721.5
17.5°	6499.7	6447.8	6276.0	6150.4	6139.6	6267.7	6505.1	6783.3	7088.7	7421.4	7615.2
20°	6979.6	6856.9	6434.2	6142.3	6041.4	6104.1	6311.4	6606.0	6966.1	7407.9	7656.1
22.5°	8127.9	7947.8	7050.5	6507.8	6166.8	6090.4	6246.0	6559.6	6979.6	7576.9	7893.3
25°	9799.9	9543.5	8108.7	7418.7	6715.1	6308.6	6344.1	6666.0	7173.3	7969.7	8351.6
27.5°	11120.0	10953.6	9491.7	8703.4	7713.3	6897.7	6663.2	6933.3	7568.7	8613.4	9003.4
30°	11905.4	11804.6	10969.9	10159.9	8987.0	7836.1	7274.2	7435.1	8187.9	9505.2	9827.1
32.5°	12816.4	12756.4	12347.3	11602.7	10361.7	9068.8	8242.4	8185.1	9017.0	10577.2	10724.5
35°	13760.1	13741.1	13501.0	12966.5	11837.2	10694.6	9527.1	9139.7	9919.8	11689.9	11597.3
37.5°	14638.4	14605.7	14466.6	14155.6	13381.1	12440.0	10836.4	10118.9	10893.5	12753.8	12341.8
40°	16255.8	15999.4	15522.1	15287.5	14941.2	13910.2	11875.5	11032.7	11902.7	13768.3	12985.6
42.5°	18227.7	17810.5	16921.3	16599.4	16550.4	15069.4	12584.6	11919.1	12920.1	14774.8	13618.3
45°	19779.8	19387.0	18620.5	18214.2	18394.2	16119.4	13296.6	12865.5	13967.4	15830.3	14270.3
47.5°	21435.2	20819.0	19804.3	19927.0	20319.7	17112.1	14022.0	13882.9	15115.7	17011.3	15080.3
50°	21495.3	21023.4	20578.9	21312.5	21923.5	18025.9	14930.3	14949.3	16520.3	18497.8	16157.6
52.5°	20248.8	20148.0	20854.4	22008.1	22889.0	18748.7	15964.0	16051.3	18317.8	20205.2	17341.3
55°	19812.4	19698.0	20513.4	21765.3	23020.0	19346.0	17085.0	17243.2	20491.6	22005.4	18495.1
57.5°	20876.1	20622.4	20677.1	21650.9	22700.8	20000.7	18306.8	18626.0	22853.5	23579.1	19237.0
60°	23849.1	23306.3	22275.3	22250.8	22872.7	20982.5	19719.6	20109.7	25308.4	24331.9	18947.8
62.5°	28019.4	27476.6	25545.6	24288.3	24195.5	22602.7	21454.3	21558.1	26726.6	23311.8	17183.1
65°	32533.5	32047.9	29890.5	28114.9	27258.4	25286.5	23470.0	22204.4	26262.9	20505.2	14095.6
67.5°	38012.9	37492.0	35637.3	33998.1	33174.4	29617.8	24885.6	21585.3	23320.0	15884.8	10132.6
70°	41845.1	41313.2	40582.2	41910.5	43926.1	35866.4	25068.3	19067.8	17417.7	10558.0	6098.7
72.5°	36845.6	36597.4	37931.1	43525.2	51920.4	39657.7	22660.0	13882.9	10116.2	5605.0	3529.4
73°	33758.1	33703.5	35978.2	42393.2	51977.7	39074.0	21604.4	12903.7	8676.2	4958.5	3226.7
75°	15244.0	15683.1	20668.9	32380.7	45158.9	32197.9	15205.7	7402.5	4901.3	3425.8	2435.6
77.5°	3663.0	3815.8	6466.8	15377.5	28518.6	19187.9	6889.7	3660.3	3133.9	2419.3	1778.3
80°	1560.1	1611.9	2490.2	5681.4	13427.4	7727.0	3174.7	2452.0	2168.4	1688.3	1246.4
82.5°	867.3	921.9	1412.8	2577.4	5419.5	2634.8	1936.5	1707.4	1426.5	1017.3	810.0
85°	490.9	520.9	826.4	1440.1	2296.5	1058.2	1159.1	1134.6	804.5	523.7	398.2
87.5°	231.8	251.0	398.2	668.2	900.1	414.5	589.1	649.1	504.6	319.1	207.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8572.5	8572.5	8572.5	8572.5	8572.5	8572.5	8572.5	8572.5	8572.5	8572.5
2.5°	8567.0	8616.0	8673.4	8703.4	8730.7	8763.3	8796.1	8796.1	8801.6	8804.3
5°	8507.0	8608.0	8697.9	8736.2	8744.3	8744.3	8736.2	8692.4	8654.3	8670.7
7.5°	8381.6	8528.9	8605.3	8591.6	8488.0	8367.9	8267.0	8144.3	8081.6	8070.7
10°	8201.5	8370.7	8384.3	8247.9	7991.6	7735.1	7522.4	7315.1	7216.9	7192.4
12.5°	8002.4	8158.0	8070.7	7789.7	7377.8	7004.2	6734.2	6524.1	6431.4	6406.9
15°	7841.5	7947.8	7727.0	7285.1	6766.9	6371.5	6147.8	5992.4	5926.8	5907.7
17.5°	7757.0	7778.8	7375.1	6777.8	6226.8	5896.8	5757.8	5684.1	5659.5	5645.9
20°	7797.9	7645.1	7039.7	6305.9	5784.9	5553.2	5520.5	5501.3	5495.8	5487.6
22.5°	8002.4	7604.2	6731.5	5858.6	5397.7	5296.8	5324.1	5321.4	5315.9	5310.4
25°	8367.9	7639.7	6431.4	5433.1	5073.1	5051.3	5100.4	5100.4	5078.6	5078.6
27.5°	8850.6	7713.3	6095.9	5029.5	4778.6	4781.3	4819.4	4808.5	4784.0	4767.6
30°	9439.8	7759.7	5703.2	4666.7	4503.1	4492.2	4503.1	4456.6	4383.1	4377.6
32.5°	10042.6	7702.4	5247.7	4344.9	4211.3	4186.7	4178.5	4113.1	4028.5	4004.0
35°	10588.1	7492.4	4784.0	4088.5	3933.0	3878.4	3916.6	3894.9	3818.5	3799.4
37.5°	10986.3	7102.4	4366.6	3862.1	3733.9	3720.3	3744.9	3753.0	3663.0	3643.9
40°	11253.6	6573.2	4009.4	3671.2	3695.7	3643.9	3562.1	3504.8	3477.5	3469.3
42.5°	11469.1	6022.3	3709.4	3581.2	3703.9	3553.8	3376.6	3283.9	3333.0	3354.8
45°	11717.3	5485.0	3458.5	3469.3	3663.0	3450.3	3248.4	3158.4	3177.5	3182.9
47.5°	12058.2	4830.4	3188.4	3289.4	3526.7	3379.4	3169.3	3041.1	2951.1	2910.2
50°	12530.1	4055.8	2907.5	3087.5	3392.9	3327.5	3046.5	2910.2	2743.8	2705.7
52.5°	12857.4	3333.0	2675.6	2918.5	3273.0	3223.9	2948.4	2771.2	2596.5	2563.9
55°	12680.1	2768.4	2473.8	2730.2	3114.8	3095.7	2866.6	2629.4	2493.0	2465.7
57.5°	11793.7	2411.2	2318.4	2553.0	2921.1	2986.6	2757.4	2509.2	2411.2	2392.0
60°	10102.5	2187.5	2220.1	2432.8	2762.9	2877.5	2648.3	2443.8	2378.3	2364.7
62.5°	7838.8	2037.4	2146.5	2345.7	2640.2	2801.1	2588.4	2435.6	2411.2	2394.8
65°	5615.9	1917.4	2067.4	2258.4	2528.4	2730.2	2566.6	2424.7	2430.2	2416.6
67.5°	3815.8	1811.1	1972.0	2160.2	2419.3	2667.4	2536.6	2386.5	2454.7	2438.3
70°	2670.2	1707.4	1860.1	2034.7	2282.9	2580.1	2482.1	2329.3	2323.8	2258.4
72.5°	2083.8	1571.0	1707.4	1860.1	2108.3	2457.5	2372.9	2201.0	2111.1	2042.9
73°	1988.3	1538.3	1669.3	1822.0	2070.1	2427.4	2342.9	2165.6	2064.7	2001.9
75°	1644.7	1396.5	1516.5	1652.9	1906.5	2285.6	2195.7	2004.7	1876.5	1838.3
77.5°	1292.9	1194.6	1309.2	1432.0	1680.1	2078.3	1977.4	1794.7	1723.8	1691.0
80°	957.3	990.1	1091.0	1200.1	1456.4	1857.4	1767.4	1584.7	1901.0	1822.0
82.5°	673.7	750.1	842.8	940.9	1221.9	1641.9	1532.8	1344.7	1391.0	1156.4
85°	398.2	490.9	578.2	662.7	880.9	1361.1	1265.5	1072.0	878.2	837.4
87.5°	231.8	272.7	297.3	384.6	605.6	1025.5	891.9	793.7	455.5	308.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)