

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: P193917

Luminaire Tested: **GAN-AF-09-LED-U-T2-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42612 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

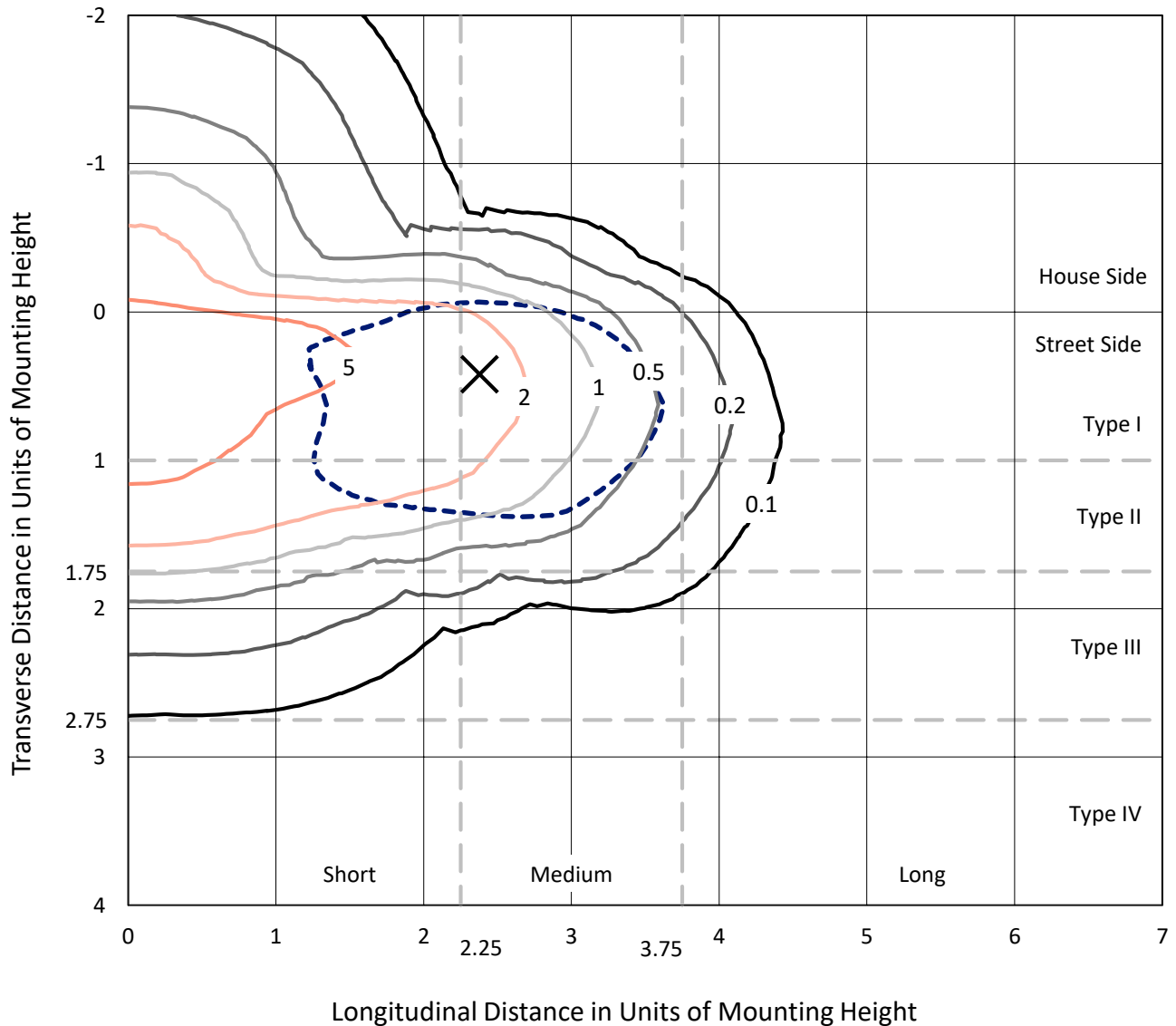
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

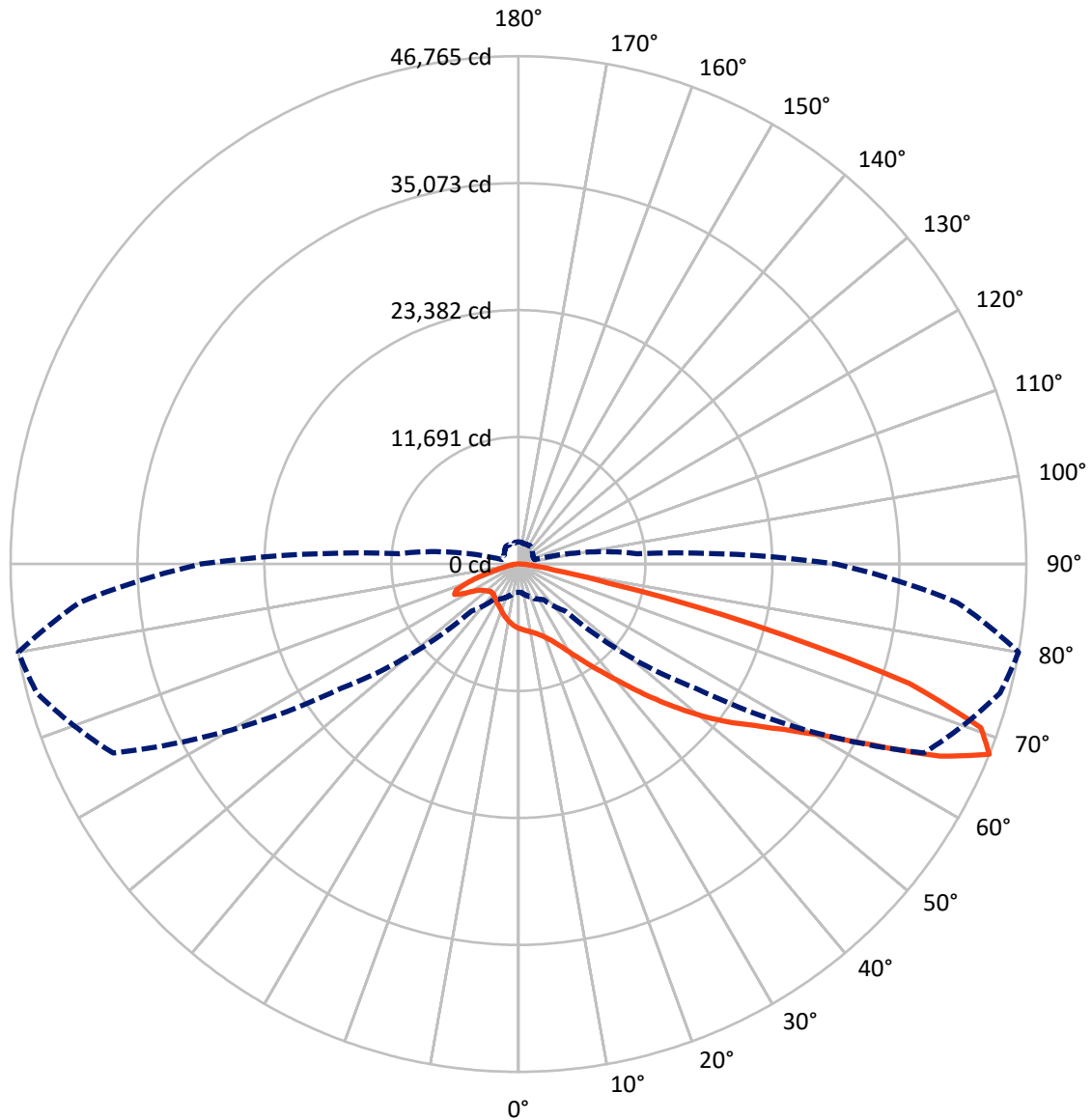
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7847.5	0.0	7847.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	34764.5	0.0	34764.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	42612.0	0.0	42612.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.1	1.3
10°-20°	1573.1	3.7
20°-30°	2603.9	6.1
30°-40°	4259.3	10.0
40°-50°	6877.1	16.1
50°-60°	9928.5	23.3
60°-70°	10956.7	25.7
70°-80°	5050.4	11.9
80°-90°	816.9	1.9
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°	42612.0	100.0
0°-180°	42612.0	100.0



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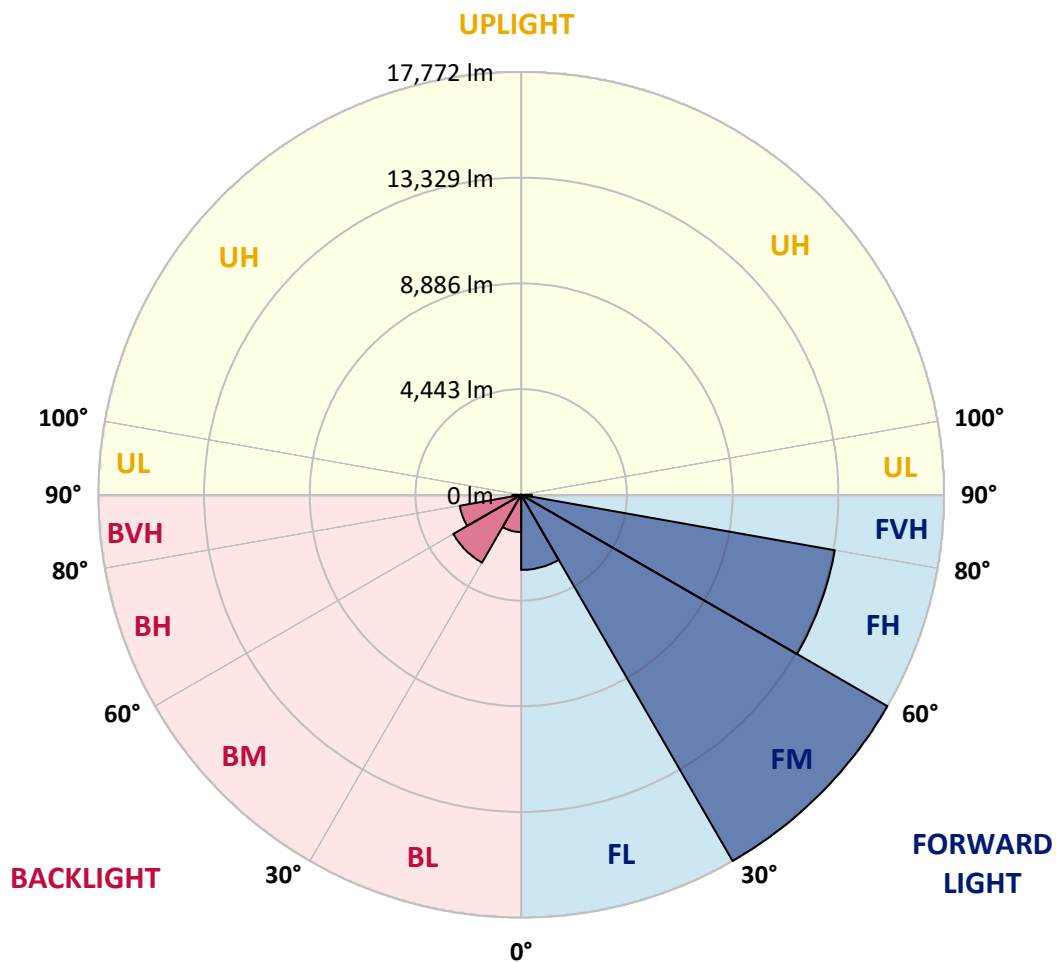
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3157.5	7.4			
FM	(30°-60°)	17772.4	41.7			
FH	(60°-80°)	13385.5	31.4			G5
FVH	(80°-90°)	449.1	1.1			G3/500
BL	(0°-30°)	1565.7	3.7	B3/2500		
BM	(30°-60°)	3292.5	7.7	B3/5000		
BH	(60°-80°)	2621.5	6.2	B4/5000		G4/5000
BVH	(80°-90°)	367.8	0.9			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	5920.0	5920.0	5920.0	5920.0	5920.0	5920.0	5920.0	5920.0	5920.0	5920.0	5920.0
2.5°	6476.0	6438.2	6444.5	6434.0	6402.5	6348.0	6289.3	6182.3	6071.1	6012.4	5966.2
5°	7017.2	7006.7	6992.0	6958.5	6878.7	6765.5	6624.9	6436.1	6232.6	6125.6	6022.8
7.5°	7422.1	7415.8	7396.9	7375.9	7298.3	7162.0	6950.1	6681.6	6385.8	6238.9	6079.5
10°	7455.6	7466.1	7480.8	7537.5	7548.0	7474.5	7258.5	6933.3	6545.2	6356.4	6152.9
12.5°	7170.3	7193.4	7250.1	7394.8	7548.0	7638.2	7527.0	7197.6	6731.9	6503.2	6245.2
15°	6792.7	6805.3	6874.6	7073.8	7348.7	7627.7	7732.6	7489.2	6973.2	6692.0	6383.7
17.5°	6631.2	6637.5	6685.8	6817.9	7073.8	7472.4	7847.9	7806.0	7268.9	6927.0	6553.6
20°	6549.4	6564.1	6633.3	6763.4	6924.9	7273.1	7864.7	8147.9	7621.4	7220.7	6767.6
22.5°	6782.2	6776.0	6801.1	6866.2	7002.5	7212.3	7852.1	8500.4	8070.3	7598.3	7046.6
25°	7325.6	7348.7	7304.6	7231.2	7275.2	7422.1	7919.3	8882.2	8632.5	8082.9	7411.6
27.5°	8099.7	8076.6	8011.6	7839.6	7749.3	7812.3	8141.6	9293.3	9331.1	8720.6	7894.1
30°	8871.7	8852.8	8789.9	8580.1	8395.5	8343.0	8573.8	9765.3	10163.9	9486.3	8485.7
32.5°	9673.0	9652.1	9593.3	9383.5	9161.2	9039.5	9188.4	10310.8	11145.7	10401.0	9182.2
35°	10661.1	10621.3	10497.5	10205.9	9987.7	9893.3	9962.5	10996.8	12278.5	11483.5	10027.6
37.5°	11590.5	11651.3	11525.4	11122.6	10839.4	10805.9	10883.5	11833.8	13499.5	12693.9	10998.9
40°	12524.0	12534.5	12421.2	12091.8	11800.2	11745.7	11940.8	12849.1	14940.7	14141.4	12179.9
42.5°	13489.0	13510.0	13319.1	13014.9	12800.9	12811.4	13033.8	14038.6	16593.8	15846.9	13539.3
45°	14632.3	14663.8	14454.0	14055.4	13860.3	14252.6	14160.3	15372.8	18406.3	17785.3	15100.1
47.5°	15828.0	15876.3	15716.9	15343.5	15100.1	15639.2	15286.8	16851.8	20357.2	19864.3	16814.0
50°	16480.5	16549.7	16704.9	16677.7	16625.2	16535.0	16543.4	18437.7	22369.0	22029.2	18576.2
52.5°	16130.1	16128.0	16694.4	17382.5	18116.8	18171.3	18074.8	20109.7	24248.7	24145.9	20235.6
55°	14527.4	14636.5	15494.5	16826.6	18832.1	20084.5	20369.8	22025.0	26094.8	26214.4	21920.1
57.5°	11859.0	11949.2	13107.2	14963.7	17867.1	21221.5	23634.0	24808.8	28159.0	28717.0	24162.7
60°	8043.0	8152.1	9379.4	11609.3	15270.0	20588.0	26740.9	29776.4	30630.3	31899.4	27309.4
62.5°	4726.4	4825.0	5825.6	7323.5	10751.3	17644.8	28104.5	36844.0	34555.3	36701.3	32109.2
65°	3253.7	3320.8	3807.5	4558.6	6178.1	11884.1	26413.6	41723.5	40594.9	42650.8	37674.7
67.5°	2618.1	2609.7	2995.7	3507.6	3977.5	6127.7	19973.3	41171.8	45906.6	46764.6	40563.4
70°	2156.6	2148.2	2410.4	2834.2	3178.2	3450.9	10879.3	34744.1	44824.1	45172.3	37903.4
72.5°	1804.1	1812.5	1980.3	2295.0	2607.6	2599.2	4780.9	24441.7	35262.2	37670.5	30214.9
75°	1523.0	1527.2	1638.4	1860.8	2116.7	2093.6	2592.9	13241.4	20497.8	22174.0	16749.0
77.5°	1296.5	1300.6	1372.0	1495.7	1678.3	1669.9	1892.2	5720.8	8550.7	8445.8	5729.1
80°	1155.9	1155.9	1189.5	1212.5	1313.2	1275.5	1403.4	2748.1	3614.5	3337.6	2286.6
82.5°	906.3	910.5	1116.0	1107.6	1034.2	986.0	986.0	1619.5	1915.3	1770.6	1338.4
85°	509.8	507.7	719.6	868.5	910.5	694.4	688.1	906.3	1042.6	918.8	648.2
87.5°	218.2	222.4	333.6	386.0	516.1	432.2	425.9	467.8	530.7	459.4	300.0
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°	5920.0	5920.0	5920.0	5920.0	5920.0	5920.0	5920.0	5920.0	5920.0	5920.0	5920.0
2.5°	5922.1	5867.6	5748.0	5599.1	5464.8	5376.7	5297.0	5181.6	5187.9	5108.2	5049.5
5°	5917.9	5804.7	5527.8	5198.4	4881.6	4653.0	4480.9	4325.7	4287.9	4214.5	4170.5
7.5°	5922.1	5737.5	5271.8	4745.3	4353.0	4063.5	3916.6	3834.8	3815.9	3790.8	3792.9
10°	5936.8	5676.7	4990.7	4321.5	3910.3	3719.4	3683.8	3708.9	3738.3	3746.7	3748.8
12.5°	5970.4	5622.2	4682.3	3943.9	3633.4	3574.7	3635.5	3721.5	3778.2	3805.4	3803.3
15°	6045.9	5580.2	4386.5	3648.1	3480.3	3511.7	3625.0	3746.7	3828.5	3866.3	3868.4
17.5°	6127.7	5519.4	4082.4	3421.5	3367.0	3446.7	3587.3	3729.9	3830.6	3872.6	3881.0
20°	6234.7	5443.8	3763.5	3251.6	3260.0	3350.2	3482.4	3625.0	3736.2	3771.9	3788.7
22.5°	6375.3	5362.0	3484.5	3113.2	3138.3	3207.6	3310.4	3434.1	3530.6	3547.4	3562.1
25°	6564.1	5273.9	3262.1	2987.3	2997.8	3037.6	3106.9	3180.3	3247.4	3228.5	3243.2
27.5°	6817.9	5198.4	3096.4	2871.9	2853.0	2861.4	2897.1	2920.2	2955.8	2903.4	2909.7
30°	7115.8	5116.6	2968.4	2771.2	2718.8	2704.1	2712.5	2725.1	2752.3	2681.0	2670.5
32.5°	7461.9	5018.0	2848.8	2683.1	2609.7	2580.3	2584.5	2618.1	2723.0	2678.9	2655.8
35°	7864.7	4906.8	2723.0	2586.6	2536.3	2494.3	2490.1	2595.0	2907.6	2880.3	2859.3
37.5°	8336.7	4795.6	2597.1	2477.5	2481.7	2435.6	2420.9	2540.5	2943.2	2836.3	2821.6
40°	8936.7	4736.9	2490.1	2362.1	2414.6	2408.3	2378.9	2439.8	2708.3	2513.2	2488.0
42.5°	9679.3	4745.3	2410.4	2238.4	2334.9	2402.0	2355.9	2357.9	2454.4	2307.6	2284.5
45°	10596.1	4843.9	2353.8	2139.8	2244.7	2395.7	2347.5	2313.9	2322.3	2244.7	2232.1
47.5°	11666.0	5047.4	2313.9	2058.0	2158.7	2372.6	2345.4	2301.3	2282.4	2240.5	2230.0
50°	12855.4	5343.1	2284.5	1980.3	2081.0	2334.9	2347.5	2288.7	2267.7	2251.0	2244.7
52.5°	14023.9	5680.9	2240.5	1913.2	2020.2	2288.7	2353.8	2276.1	2253.1	2240.5	2234.2
55°	15326.7	6102.6	2173.3	1856.6	1969.9	2230.0	2353.8	2257.3	2232.1	2234.2	2232.1
57.5°	17086.7	6784.3	2093.6	1808.3	1909.0	2158.7	2313.9	2236.3	2204.8	2206.9	2209.0
60°	19837.0	7986.4	1997.1	1760.1	1833.5	2074.7	2259.4	2190.1	2158.7	2167.0	2169.1
62.5°	23881.6	9750.7	1871.3	1688.7	1753.8	1984.5	2183.8	2131.4	2099.9	2120.9	2120.9
65°	28085.6	11307.2	1716.0	1598.5	1669.9	1885.9	2089.4	2058.0	2026.5	2074.7	2072.6
67.5°	29216.3	10959.0	1560.8	1499.9	1586.0	1776.9	1976.1	1959.4	1942.6	2026.5	2022.3
70°	25954.2	8798.3	1418.1	1399.2	1493.6	1659.4	1854.5	1854.5	1844.0	1906.9	1892.2
72.5°	19774.0	6238.9	1281.8	1292.3	1388.8	1531.4	1722.3	1737.0	1720.2	1751.7	1739.1
75°	10585.6	3570.5	1145.4	1174.8	1258.7	1401.3	1575.5	1590.1	1579.7	1577.6	1583.9
77.5°	3518.0	1745.4	1002.8	1048.9	1122.3	1267.1	1422.3	1445.4	1420.2	1416.0	1413.9
80°	1567.1	1097.2	845.4	906.3	971.3	1113.9	1260.8	1279.7	1252.4	1290.2	1241.9
82.5°	1007.0	721.6	677.6	744.7	807.7	960.8	1099.3	1103.5	1078.3	1252.4	1067.8
85°	488.8	446.8	509.8	570.6	625.2	755.2	910.5	912.6	849.6	774.1	746.8
87.5°	243.3	260.1	339.8	394.4	421.7	518.2	662.9	650.3	623.1	566.4	522.4
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)