

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: P192167

Luminaire Tested: **GAN-AF-09-LED-U-T2-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192167
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-T2-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42191 lumens
Efficiency: N/A
Efficacy: 112.8 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

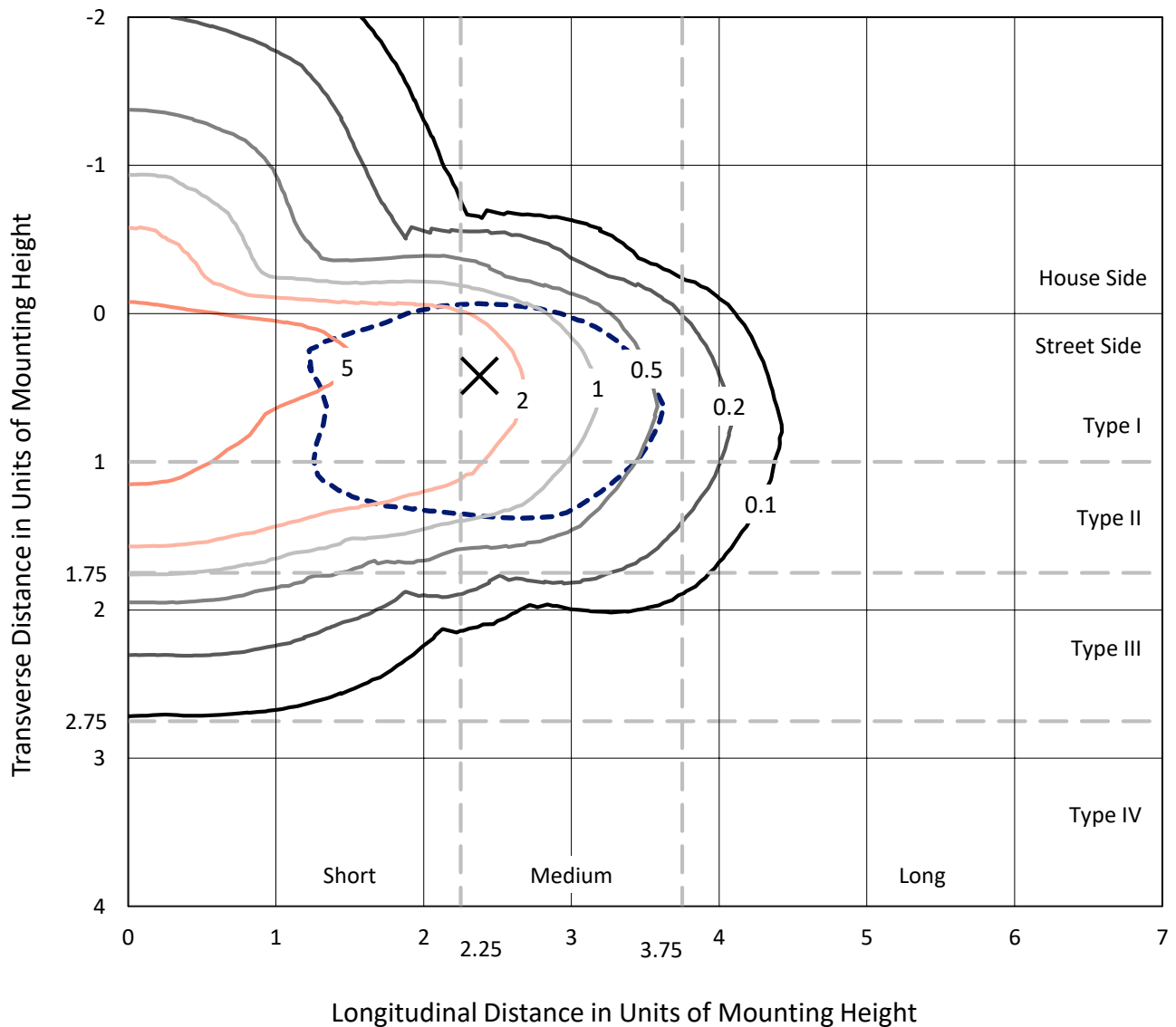
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

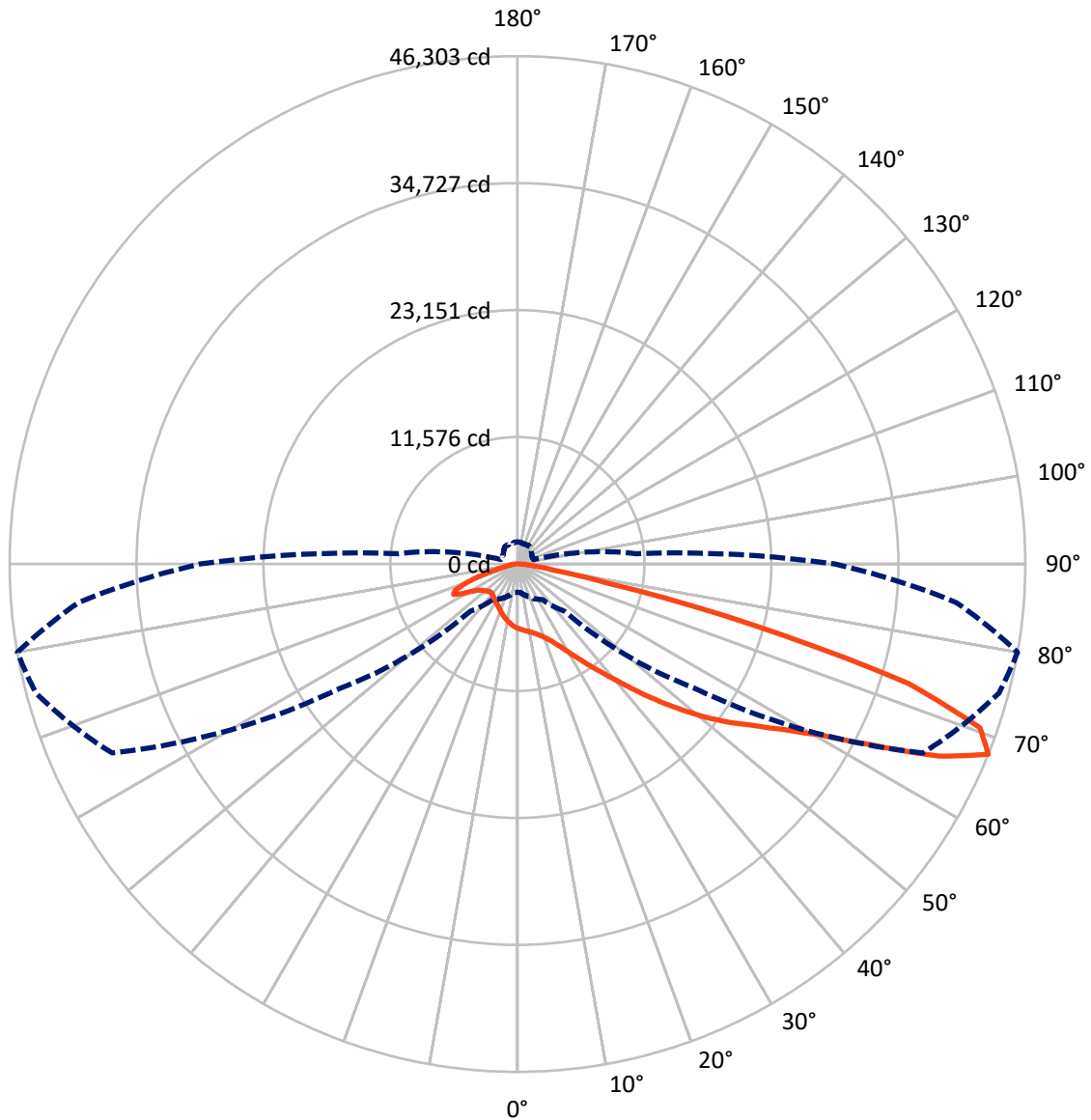
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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	7770.0	0.0	7770.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	34421.0	0.0	34421.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	42191.0	0.0	42191.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.7	1.3
10°-20°	1557.6	3.7
20°-30°	2578.2	6.1
30°-40°	4217.2	10.0
40°-50°	6809.1	16.1
50°-60°	9830.4	23.3
60°-70°	10848.5	25.7
70°-80°	5000.5	11.9
80°-90°	808.8	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°	42191.0	100.0
0°-180°	42191.0	100.0

Coefficient of Utilization



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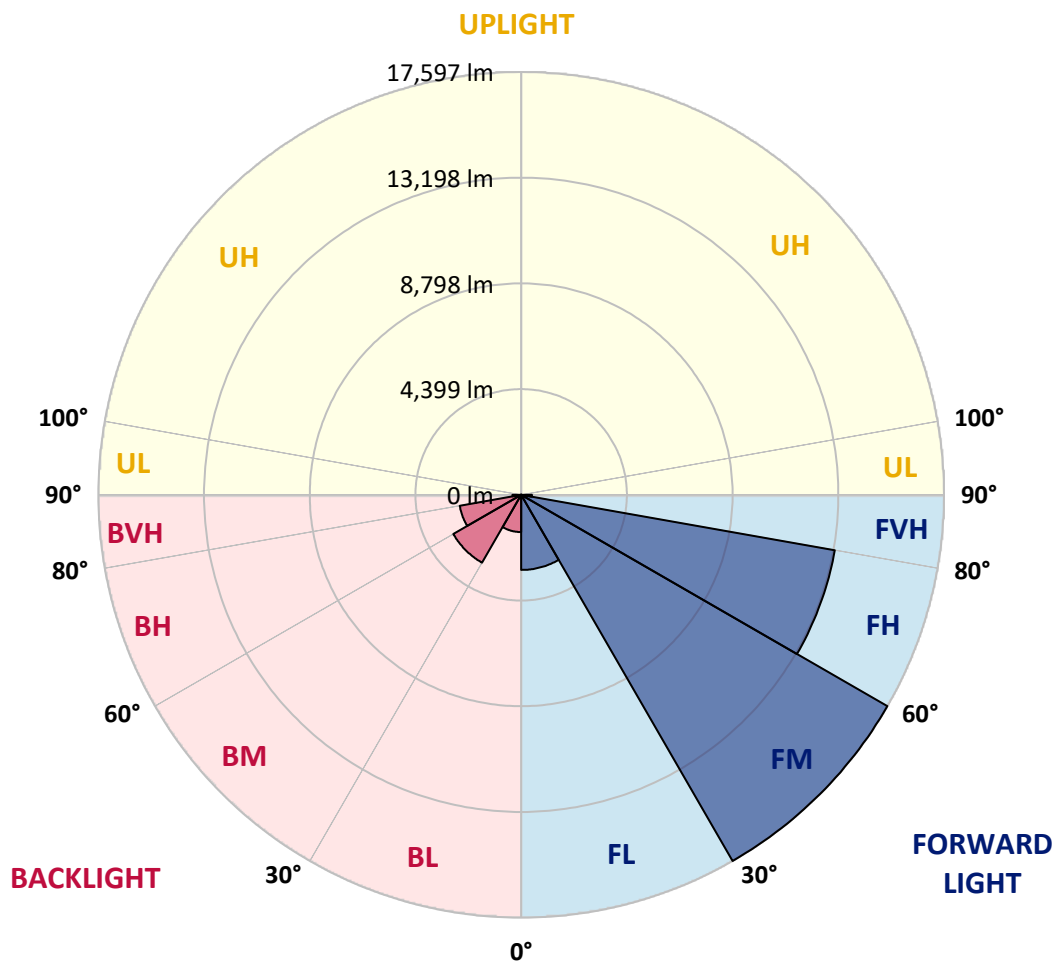
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3126.3	7.4			
FM	(30°-60°)	17596.8	41.7			
FH	(60°-80°)	13253.3	31.4			G5
FVH	(80°-90°)	444.7	1.1			G3/500
BL	(0°-30°)	1550.2	3.7	B3/2500		
BM	(30°-60°)	3260.0	7.7	B3/5000		
BH	(60°-80°)	2595.6	6.2	B4/5000		G4/5000
BVH	(80°-90°)	364.1	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°	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6
2.5°	6412.0	6374.6	6380.8	6370.4	6339.3	6285.3	6227.1	6121.2	6011.1	5952.9	5907.3
5°	6947.9	6937.5	6923.0	6889.7	6810.8	6698.6	6559.5	6372.5	6171.0	6065.1	5963.3
7.5°	7348.8	7342.5	7323.8	7303.1	7226.2	7091.2	6881.4	6615.5	6322.7	6177.3	6019.4
10°	7382.0	7392.4	7406.9	7463.0	7473.4	7400.7	7186.7	6864.8	6480.5	6293.6	6092.1
12.5°	7099.5	7122.4	7178.4	7321.8	7473.4	7562.7	7452.6	7126.5	6665.4	6439.0	6183.5
15°	6725.6	6738.1	6806.6	7004.0	7276.1	7552.3	7656.2	7415.2	6904.3	6625.9	6320.6
17.5°	6565.7	6571.9	6619.7	6750.6	7004.0	7398.6	7770.4	7728.9	7197.1	6858.6	6488.8
20°	6484.7	6499.2	6567.8	6696.5	6856.5	7201.3	7787.0	8067.4	7546.1	7149.4	6700.7
22.5°	6715.2	6709.0	6733.9	6798.3	6933.3	7141.0	7774.6	8416.4	7990.6	7523.2	6977.0
25°	7253.2	7276.1	7232.4	7159.7	7203.4	7348.8	7841.0	8794.4	8547.2	8003.0	7338.4
27.5°	8019.7	7996.8	7932.4	7762.1	7672.8	7735.1	8061.2	9201.5	9238.9	8634.5	7816.1
30°	8784.0	8765.3	8703.0	8495.3	8312.5	8260.6	8489.1	9668.9	10063.5	9392.6	8401.8
32.5°	9577.5	9556.7	9498.5	9290.8	9070.7	8950.2	9097.7	10208.9	11035.6	10298.2	9091.4
35°	10555.8	10516.3	10393.8	10105.1	9889.0	9795.6	9864.1	10888.1	12157.2	11370.0	9928.5
37.5°	11475.9	11536.2	11411.6	11012.7	10732.3	10699.1	10776.0	11716.9	13366.1	12568.5	10890.2
40°	12400.2	12410.6	12298.5	11972.4	11683.6	11629.6	11822.8	12722.2	14793.1	14001.7	12059.6
42.5°	13355.7	13376.5	13187.5	12886.3	12674.4	12684.8	12905.0	13899.9	16429.8	15690.4	13405.6
45°	14487.7	14518.9	14311.2	13916.5	13723.4	14111.8	14020.4	15220.9	18224.4	17609.6	14950.9
47.5°	15671.7	15719.4	15561.6	15191.9	14950.9	15484.7	15135.8	16685.3	20156.1	19668.0	16647.9
50°	16317.6	16386.2	16539.9	16512.9	16461.0	16371.6	16380.0	18255.6	22148.0	21811.6	18392.7
52.5°	15970.8	15968.7	16529.5	17210.8	17937.8	17991.8	17896.2	19911.0	24009.1	23907.3	20035.6
55°	14383.9	14491.9	15341.4	16660.4	18646.1	19886.1	20168.6	21807.4	25837.0	25955.4	21703.5
57.5°	11741.8	11831.1	12977.7	14815.9	17690.6	21011.9	23400.5	24563.7	27880.8	28433.3	23924.0
60°	7963.6	8071.6	9286.7	11494.6	15119.2	20384.6	26476.7	29482.3	30327.6	31584.3	27039.6
62.5°	4679.7	4777.3	5768.1	7251.1	10645.1	17470.4	27826.8	36480.0	34213.9	36338.7	31792.0
65°	3221.6	3288.0	3769.9	4513.5	6117.0	11766.7	26152.7	41311.3	40193.8	42229.4	37302.5
67.5°	2592.2	2583.9	2966.1	3472.9	3938.2	6067.2	19776.0	40765.0	45453.0	46302.6	40162.7
70°	2135.3	2126.9	2386.6	2806.2	3146.8	3416.8	10771.8	34400.8	44381.3	44726.0	37528.9
72.5°	1786.3	1794.6	1960.8	2272.3	2581.8	2573.5	4733.7	24200.2	34913.9	37298.4	29916.4
75°	1508.0	1512.1	1622.2	1842.4	2095.8	2072.9	2567.3	13110.6	20295.3	21954.9	16583.5
77.5°	1283.6	1287.8	1358.4	1481.0	1661.7	1653.4	1873.5	5664.2	8466.2	8362.4	5672.5
80°	1144.5	1144.5	1177.7	1200.6	1300.3	1262.9	1389.6	2721.0	3578.8	3304.7	2264.0
82.5°	897.3	901.5	1105.0	1096.7	1024.0	976.2	976.2	1603.5	1896.4	1753.1	1325.2
85°	504.7	502.7	712.4	859.9	901.5	687.5	681.3	897.3	1032.3	909.8	641.8
87.5°	216.0	220.2	330.3	382.2	511.0	427.9	421.6	463.2	525.5	454.9	297.0
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°	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6	5861.6
2.5°	5863.6	5809.6	5691.2	5543.8	5410.8	5323.6	5244.7	5130.4	5136.7	5057.7	4999.6
5°	5859.5	5747.3	5473.1	5147.0	4833.4	4607.0	4436.7	4283.0	4245.6	4172.9	4129.3
7.5°	5863.6	5680.8	5219.7	4698.4	4310.0	4023.3	3877.9	3796.9	3778.2	3753.3	3755.4
10°	5878.2	5620.6	4941.4	4278.8	3871.7	3682.7	3647.4	3672.3	3701.4	3709.7	3711.8
12.5°	5911.4	5566.6	4636.1	3904.9	3597.5	3539.4	3599.6	3684.8	3740.8	3767.8	3765.8
15°	5986.2	5525.1	4343.2	3612.1	3445.9	3477.1	3589.2	3709.7	3790.7	3828.1	3830.2
17.5°	6067.2	5464.8	4042.0	3387.7	3333.7	3412.7	3551.8	3693.1	3792.8	3834.3	3842.6
20°	6173.1	5390.1	3726.3	3219.5	3227.8	3317.1	3448.0	3589.2	3699.3	3734.6	3751.2
22.5°	6312.3	5309.1	3450.1	3082.4	3107.3	3175.9	3277.7	3400.2	3495.7	3512.4	3526.9
25°	6499.2	5221.8	3229.9	2957.8	2968.2	3007.6	3076.2	3148.9	3215.3	3196.6	3211.2
27.5°	6750.6	5147.0	3065.8	2843.5	2824.8	2833.2	2868.5	2891.3	2926.6	2874.7	2880.9
30°	7045.5	5066.0	2939.1	2743.8	2691.9	2677.4	2685.7	2698.1	2725.1	2654.5	2644.1
32.5°	7388.2	4968.4	2820.7	2656.6	2583.9	2554.8	2559.0	2592.2	2696.1	2652.4	2629.6
35°	7787.0	4858.3	2696.1	2561.1	2511.2	2469.7	2465.5	2569.4	2878.9	2851.8	2831.1
37.5°	8254.4	4748.2	2571.4	2453.0	2457.2	2411.5	2397.0	2515.4	2914.2	2808.2	2793.7
40°	8848.4	4690.1	2465.5	2338.8	2390.7	2384.5	2355.4	2415.7	2681.5	2488.4	2463.4
42.5°	9583.7	4698.4	2386.6	2216.3	2311.8	2378.3	2332.6	2334.7	2430.2	2284.8	2262.0
45°	10491.4	4796.0	2330.5	2118.6	2222.5	2372.0	2324.3	2291.0	2299.3	2222.5	2210.0
47.5°	11550.7	4997.5	2291.0	2037.6	2137.3	2349.2	2322.2	2278.6	2259.9	2218.3	2208.0
50°	12728.4	5290.4	2262.0	1960.8	2060.5	2311.8	2324.3	2266.1	2245.3	2228.7	2222.5
52.5°	13885.4	5624.8	2218.3	1894.3	2000.2	2266.1	2330.5	2253.6	2230.8	2218.3	2212.1
55°	15175.2	6042.3	2151.9	1838.2	1950.4	2208.0	2330.5	2235.0	2210.0	2212.1	2210.0
57.5°	16917.9	6717.3	2072.9	1790.5	1890.2	2137.3	2291.0	2214.2	2183.0	2185.1	2187.2
60°	19641.0	7907.5	1977.4	1742.7	1815.4	2054.2	2237.0	2168.5	2137.3	2145.6	2147.7
62.5°	23645.6	9654.3	1852.8	1672.1	1736.4	1964.9	2162.3	2110.3	2079.2	2099.9	2099.9
65°	27808.1	11195.5	1699.1	1582.7	1653.4	1867.3	2068.8	2037.6	2006.5	2054.2	2052.2
67.5°	28927.7	10850.7	1545.4	1485.1	1570.3	1759.3	1956.6	1940.0	1923.4	2006.5	2002.3
70°	25697.8	8711.3	1404.1	1385.4	1478.9	1643.0	1836.2	1836.2	1825.8	1888.1	1873.5
72.5°	19578.7	6177.3	1269.1	1279.5	1375.0	1516.3	1705.3	1719.8	1703.2	1734.4	1721.9
75°	10481.0	3535.2	1134.1	1163.2	1246.3	1387.5	1559.9	1574.4	1564.1	1562.0	1568.2
77.5°	3483.3	1728.1	992.9	1038.5	1111.2	1254.6	1408.3	1431.1	1406.2	1402.0	1400.0
80°	1551.6	1086.3	837.1	897.3	961.7	1102.9	1248.3	1267.0	1240.0	1277.4	1229.6
82.5°	997.0	714.5	670.9	737.4	799.7	951.3	1088.4	1092.6	1067.6	1240.0	1057.2
85°	484.0	442.4	504.7	565.0	619.0	747.8	901.5	903.5	841.2	766.4	739.4
87.5°	240.9	257.6	336.5	390.5	417.5	513.0	656.4	643.9	616.9	560.8	517.2
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)