

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: P192335

Luminaire Tested: **GAN-AF-07-LED-U-T4FT-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192335
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-07-LED-U-T4FT-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA 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: 42356 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

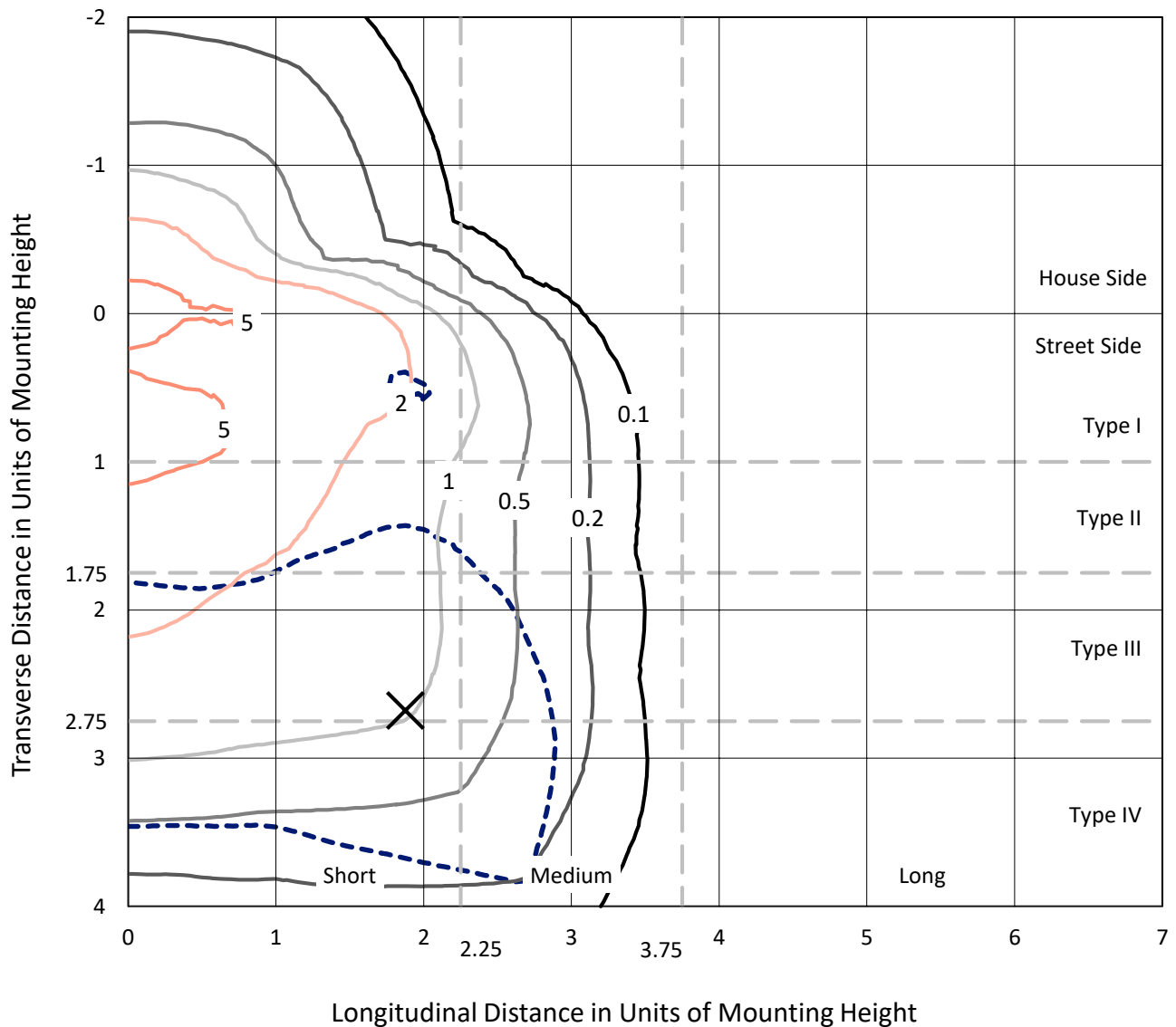
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

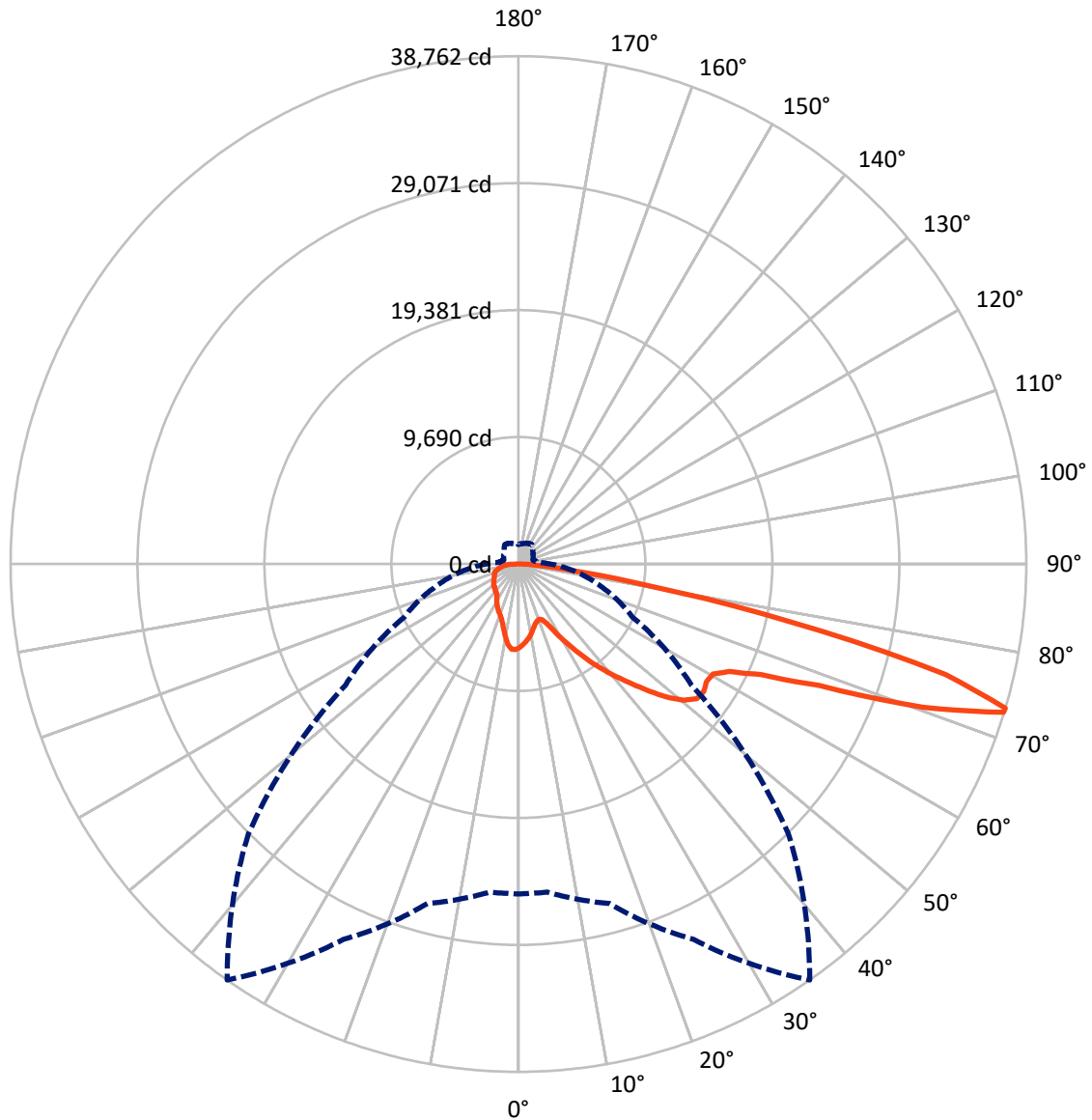
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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	8078.5	0.0	8078.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	34277.5	0.0	34277.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	42356.0	0.0	42356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.7	1.4
10°-20°	1444.4	3.4
20°-30°	2335.1	5.5
30°-40°	3915.7	9.2
40°-50°	6035.9	14.3
50°-60°	8097.8	19.1
60°-70°	10787.9	25.5
70°-80°	8227.9	19.4
80°-90°	932.6	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°	42356.0	100.0
0°-180°	42356.0	100.0

Coefficient of Utilization



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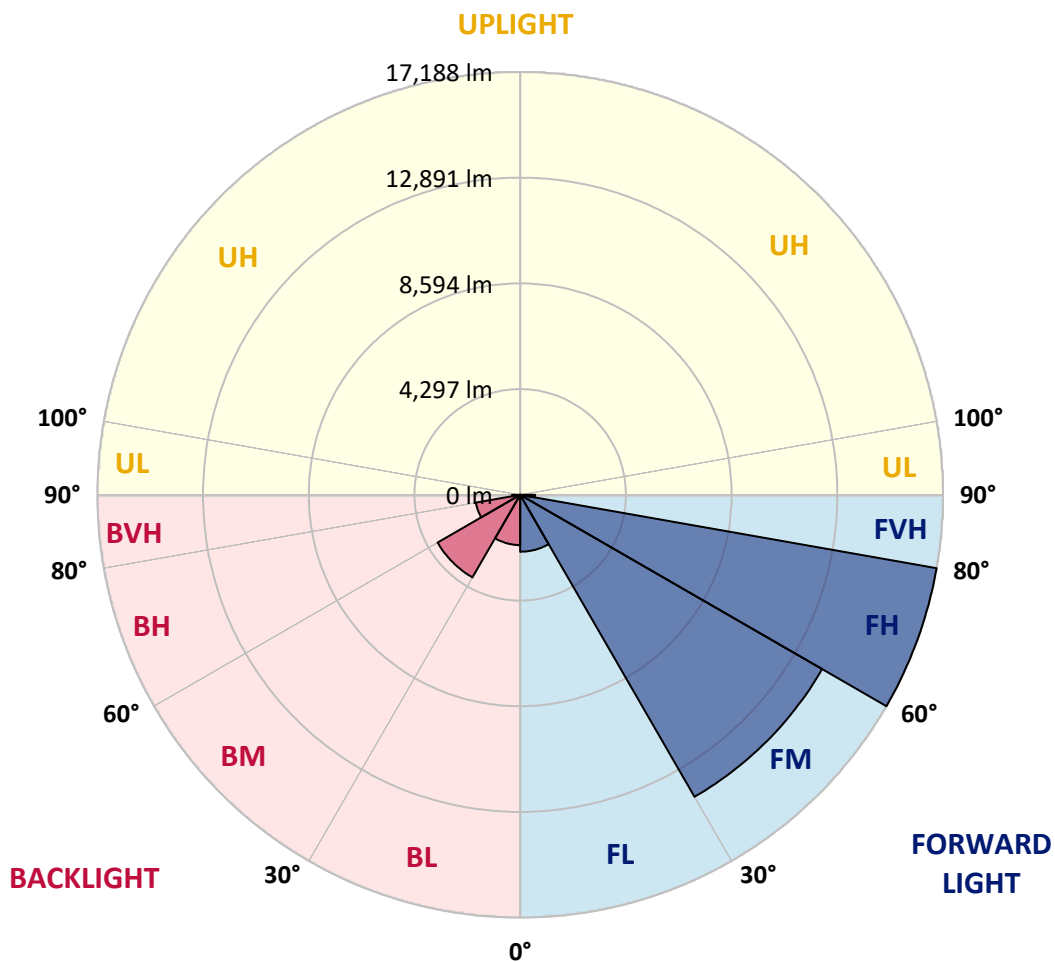
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2314.1	5.5			
FM	(30°-60°)	14172.6	33.5			
FH	(60°-80°)	17188.1	40.6			G5
FVH	(80°-90°)	602.8	1.4			G4/750
BL	(0°-30°)	2044.2	4.8	B3/2500		
BM	(30°-60°)	3876.8	9.2	B3/5000		
BH	(60°-80°)	1827.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	329.8	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6392.8	6392.8	6392.8	6392.8	6392.8	6392.8	6392.8	6392.8	6392.8	6392.8	6392.8
2.5°	6140.6	6152.8	6138.6	6156.9	6187.4	6219.9	6242.3	6274.9	6311.5	6362.3	6374.5
5°	5851.8	5870.1	5870.1	5902.6	5961.6	6014.5	6063.3	6116.2	6193.5	6281.0	6315.5
7.5°	5534.5	5544.7	5563.0	5611.8	5697.2	5772.5	5841.6	5927.1	6032.8	6148.8	6209.8
10°	5152.1	5166.3	5194.8	5264.0	5379.9	5483.6	5583.3	5701.3	5835.5	5979.9	6057.2
12.5°	4881.6	4877.5	4889.7	4940.6	5042.3	5168.4	5312.8	5463.3	5628.1	5796.9	5890.4
15°	4790.1	4767.7	4720.9	4708.7	4763.6	4889.7	5056.5	5241.6	5438.9	5642.3	5758.2
17.5°	4847.0	4808.4	4680.2	4586.7	4578.5	4674.1	4851.1	5058.5	5286.3	5534.5	5678.9
20°	5205.0	5113.5	4798.2	4580.5	4505.3	4552.1	4706.7	4926.3	5194.8	5524.3	5709.4
22.5°	6061.3	5927.1	5257.9	4853.1	4598.9	4541.9	4657.8	4891.8	5205.0	5650.4	5886.4
25°	7308.1	7116.9	6047.1	5532.5	5007.7	4704.6	4731.1	4971.1	5349.4	5943.3	6228.1
27.5°	8292.6	8168.5	7078.3	6490.5	5752.1	5144.0	4969.0	5170.4	5644.3	6423.3	6714.2
30°	8878.4	8803.1	8180.7	7576.6	6702.0	5843.7	5424.7	5544.7	6106.0	7088.5	7328.5
32.5°	9557.7	9513.0	9207.9	8652.6	7727.1	6763.0	6146.7	6104.0	6724.4	7887.8	7997.7
35°	10261.5	10247.3	10068.3	9669.6	8827.5	7975.3	7104.7	6815.9	7397.6	8717.7	8648.5
37.5°	10916.4	10892.0	10788.3	10556.4	9978.8	9277.0	8081.0	7546.1	8123.8	9510.9	9203.8
40°	12122.6	11931.4	11575.4	11400.5	11142.2	10373.4	8856.0	8227.5	8876.3	10267.6	9683.8
42.5°	13593.2	13282.0	12618.9	12378.9	12342.3	11237.8	9384.8	8888.5	9635.0	11018.1	10155.7
45°	14750.5	14457.6	13886.1	13583.0	13717.2	12020.9	9915.7	9594.3	10416.1	11805.3	10641.8
47.5°	15985.1	15525.5	14768.8	14860.3	15153.2	12761.3	10456.8	10353.0	11272.4	12686.0	11245.9
50°	16029.9	15678.0	15346.5	15893.6	16349.2	13442.7	11134.1	11148.3	12319.9	13794.5	12049.4
52.5°	15100.4	15025.1	15551.9	16412.3	17069.3	13981.7	11905.0	11970.0	13660.3	15067.8	12932.1
55°	14774.9	14689.5	15297.7	16231.3	17166.9	14427.1	12740.9	12858.9	15281.4	16410.2	13792.5
57.5°	15568.2	15379.0	15419.7	16145.8	16928.9	14915.3	13652.2	13890.1	17042.8	17583.9	14345.7
60°	17785.2	17380.5	16611.6	16593.3	17057.1	15647.5	14705.8	14996.6	18873.4	18145.2	14130.1
62.5°	20895.2	20490.4	19050.4	18112.7	18043.5	16855.7	15999.4	16076.7	19931.1	17384.5	12814.1
65°	24261.5	23899.4	22290.5	20966.4	20327.7	18857.1	17502.5	16558.7	19585.3	15291.6	10511.7
67.5°	28347.7	27959.3	26576.1	25353.7	24739.4	22087.1	18558.1	16097.0	17390.6	11846.0	7556.3
70°	31205.5	30808.9	30263.8	31254.3	32757.4	26747.0	18694.4	14219.6	12989.1	7873.6	4548.0
72.5°	27477.2	27292.1	28286.7	32458.4	38719.1	29574.2	16898.4	10353.0	7544.1	4179.9	2632.0
73°	25174.7	25134.0	26830.4	31614.3	38761.8	29139.0	16111.2	9622.8	6470.1	3697.8	2406.2
75°	11368.0	11695.5	15413.6	24147.6	33676.8	24011.3	11339.5	5520.3	3655.1	2554.7	1816.4
77.5°	2731.7	2845.6	4822.6	11467.6	21267.4	14309.1	5137.9	2729.6	2337.1	1804.2	1326.2
80°	1163.4	1202.1	1857.0	4236.8	10013.3	5762.3	2367.6	1828.6	1617.0	1259.0	929.5
82.5°	646.8	687.5	1053.6	1922.1	4041.5	1964.8	1444.1	1273.3	1063.8	758.7	604.1
85°	366.1	388.5	616.3	1073.9	1712.6	789.2	864.4	846.1	600.0	390.5	297.0
87.5°	172.9	187.1	297.0	498.3	671.2	309.2	439.3	484.1	376.3	238.0	154.6
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°	6392.8	6392.8	6392.8	6392.8	6392.8	6392.8	6392.8	6392.8	6392.8	6392.8
2.5°	6388.8	6425.4	6468.1	6490.5	6510.8	6535.2	6559.6	6559.6	6563.7	6565.7
5°	6344.0	6419.3	6486.4	6514.9	6521.0	6521.0	6514.9	6482.3	6453.9	6466.1
7.5°	6250.5	6360.3	6417.2	6407.1	6329.8	6240.3	6165.0	6073.5	6026.7	6018.6
10°	6116.2	6242.3	6252.5	6150.8	5959.6	5768.4	5609.7	5455.2	5381.9	5363.6
12.5°	5967.7	6083.7	6018.6	5809.1	5501.9	5223.3	5021.9	4865.3	4796.2	4777.8
15°	5847.7	5927.1	5762.3	5432.8	5046.3	4751.4	4584.6	4468.7	4419.9	4405.6
17.5°	5784.7	5800.9	5499.9	5054.5	4643.6	4397.5	4293.8	4238.8	4220.5	4210.4
20°	5815.2	5701.3	5249.7	4702.6	4314.1	4141.2	4116.8	4102.6	4098.5	4092.4
22.5°	5967.7	5670.8	5019.9	4369.0	4025.3	3950.0	3970.4	3968.3	3964.2	3960.2
25°	6240.3	5697.2	4796.2	4051.7	3783.2	3767.0	3803.6	3803.6	3787.3	3787.3
27.5°	6600.3	5752.1	4546.0	3750.7	3563.6	3565.6	3594.1	3585.9	3567.6	3555.4
30°	7039.6	5786.7	4253.1	3480.2	3358.1	3350.0	3358.1	3323.5	3268.6	3264.6
32.5°	7489.2	5744.0	3913.4	3240.1	3140.5	3122.2	3116.1	3067.3	3004.2	2985.9
35°	7896.0	5587.4	3567.6	3049.0	2933.0	2892.3	2920.8	2904.5	2847.6	2833.4
37.5°	8192.9	5296.5	3256.4	2880.1	2784.5	2774.4	2792.7	2798.8	2731.7	2717.4
40°	8392.3	4901.9	2990.0	2737.8	2756.1	2717.4	2656.4	2613.7	2593.3	2587.2
42.5°	8552.9	4491.1	2766.2	2670.6	2762.2	2650.3	2518.1	2448.9	2485.5	2501.8
45°	8738.0	4090.4	2579.1	2587.2	2731.7	2573.0	2422.5	2355.4	2369.6	2373.7
47.5°	8992.3	3602.2	2377.7	2453.0	2630.0	2520.1	2363.5	2267.9	2200.8	2170.3
50°	9344.2	3024.5	2168.2	2302.5	2530.3	2481.5	2272.0	2170.3	2046.2	2017.7
52.5°	9588.2	2485.5	1995.3	2176.4	2440.8	2404.2	2198.7	2066.5	1936.4	1912.0
55°	9456.0	2064.5	1844.8	2036.0	2322.8	2308.6	2137.7	1960.8	1859.1	1838.7
57.5°	8795.0	1798.0	1728.9	1903.8	2178.4	2227.2	2056.4	1871.3	1798.0	1783.8
60°	7533.9	1631.3	1655.7	1814.3	2060.4	2145.9	1975.0	1822.5	1773.6	1763.5
62.5°	5845.7	1519.4	1600.8	1749.2	1968.9	2088.9	1930.3	1816.4	1798.0	1785.8
65°	4188.0	1429.9	1541.8	1684.1	1885.5	2036.0	1914.0	1808.2	1812.3	1802.1
67.5°	2845.6	1350.6	1470.6	1610.9	1804.2	1989.2	1891.6	1779.7	1830.6	1818.4
70°	1991.3	1273.3	1387.2	1517.4	1702.5	1924.2	1850.9	1737.0	1733.0	1684.1
72.5°	1554.0	1171.6	1273.3	1387.2	1572.3	1832.6	1769.6	1641.4	1574.3	1523.5
73°	1482.8	1147.2	1244.8	1358.7	1543.8	1810.3	1747.2	1615.0	1539.7	1492.9
75°	1226.5	1041.4	1130.9	1232.6	1421.8	1704.5	1637.4	1495.0	1399.4	1370.9
77.5°	964.1	890.9	976.3	1067.8	1252.9	1549.9	1474.6	1338.4	1285.5	1261.1
80°	713.9	738.3	813.6	895.0	1086.2	1385.1	1318.0	1181.7	1417.7	1358.7
82.5°	502.4	559.3	628.5	701.7	911.2	1224.5	1143.1	1002.8	1037.3	862.4
85°	297.0	366.1	431.2	494.3	657.0	1015.0	943.8	799.4	654.9	624.4
87.5°	172.9	203.4	221.7	286.8	451.5	764.8	665.1	591.9	339.7	229.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)