

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: P191534

Luminaire Tested: **GAN-AF-06-LED-U-T4FT-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191534
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-06-LED-U-T4FT-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 36637 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

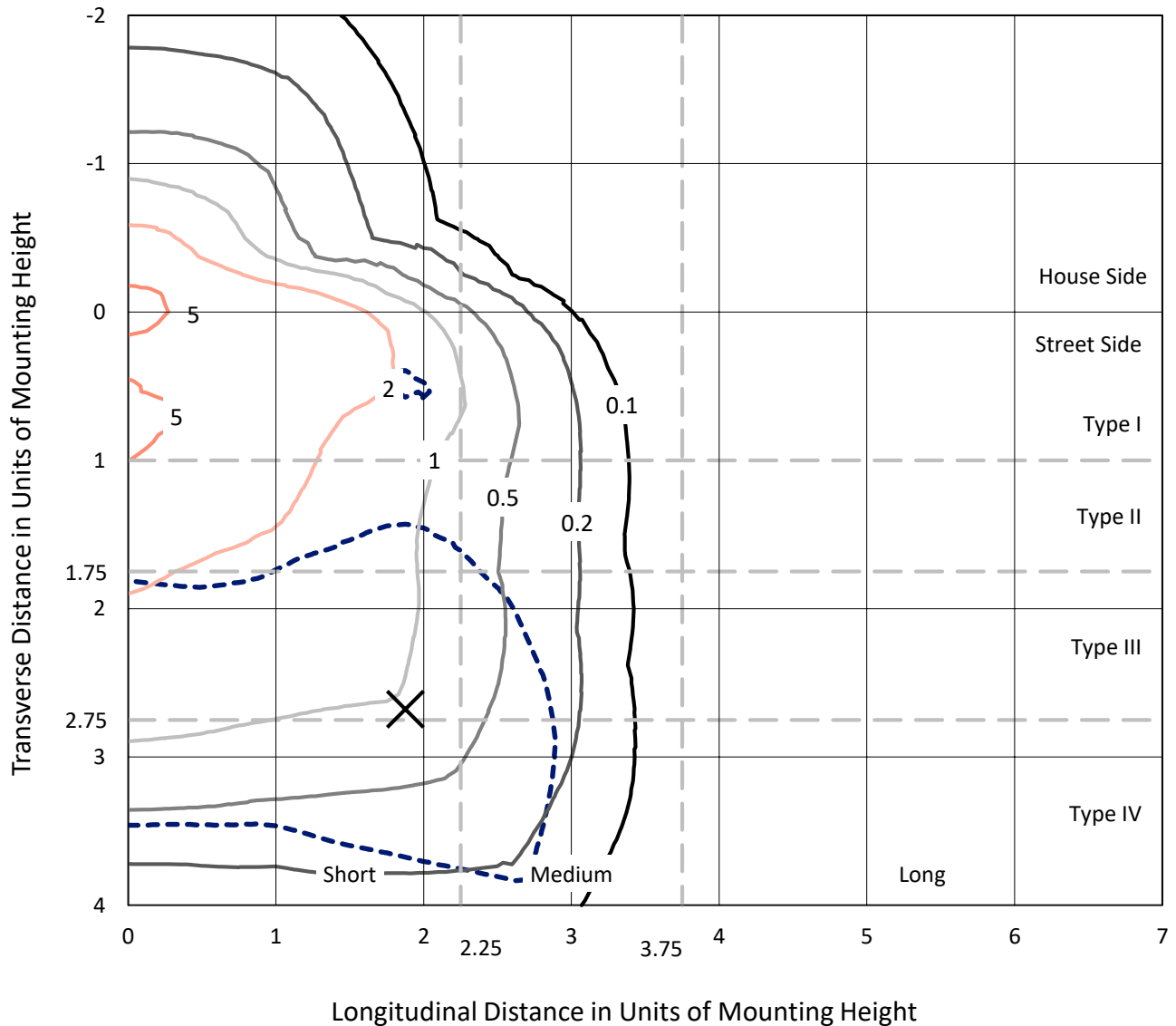
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

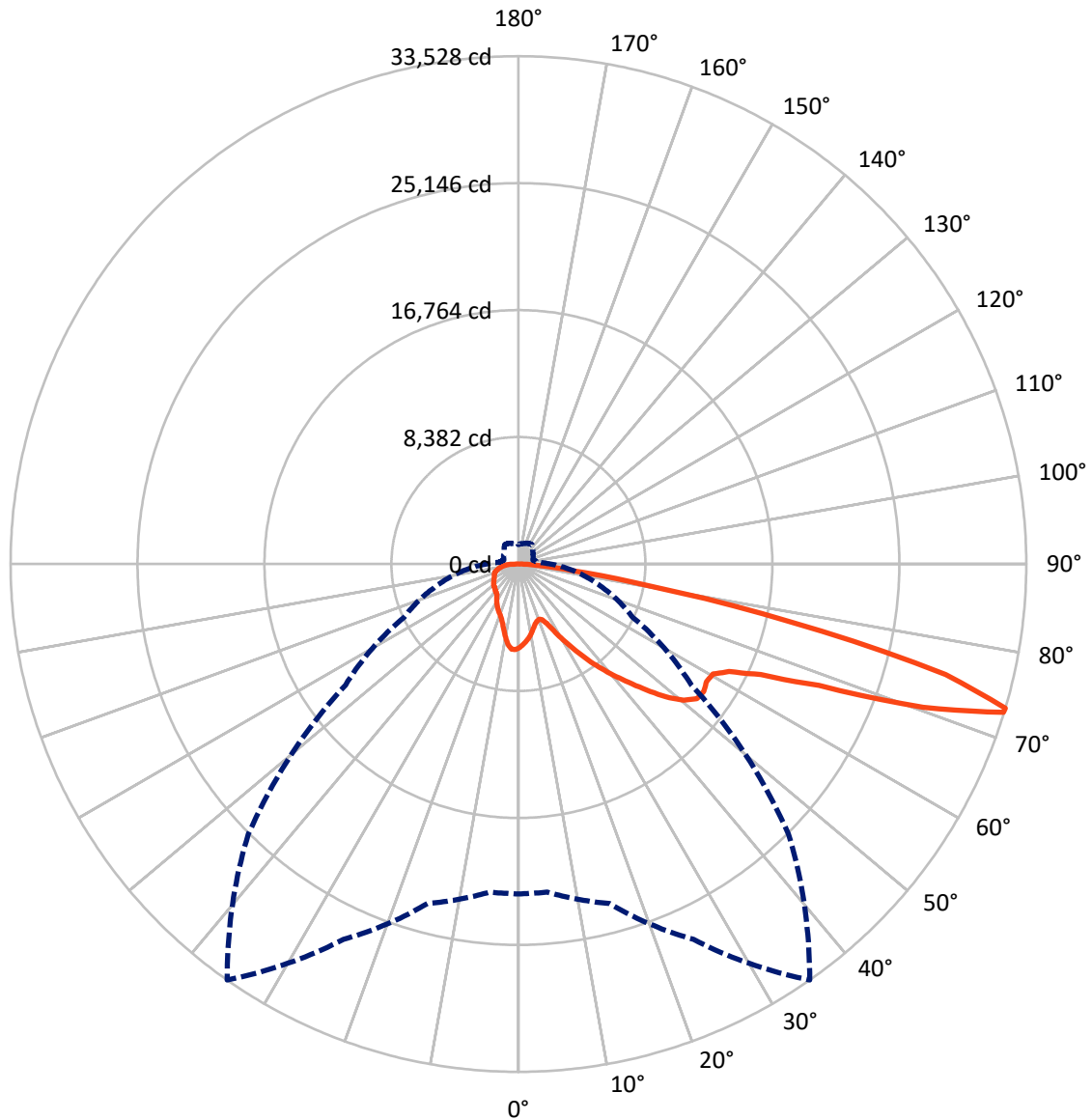
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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	6987.7	0.0	6987.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	29649.3	0.0	29649.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	36637.0	0.0	36637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.6	1.4
10°-20°	1249.4	3.4
20°-30°	2019.8	5.5
30°-40°	3387.0	9.2
40°-50°	5220.9	14.3
50°-60°	7004.4	19.1
60°-70°	9331.3	25.5
70°-80°	7116.9	19.4
80°-90°	806.7	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°	36637.0	100.0
0°-180°	36637.0	100.0

Coefficient of Utilization



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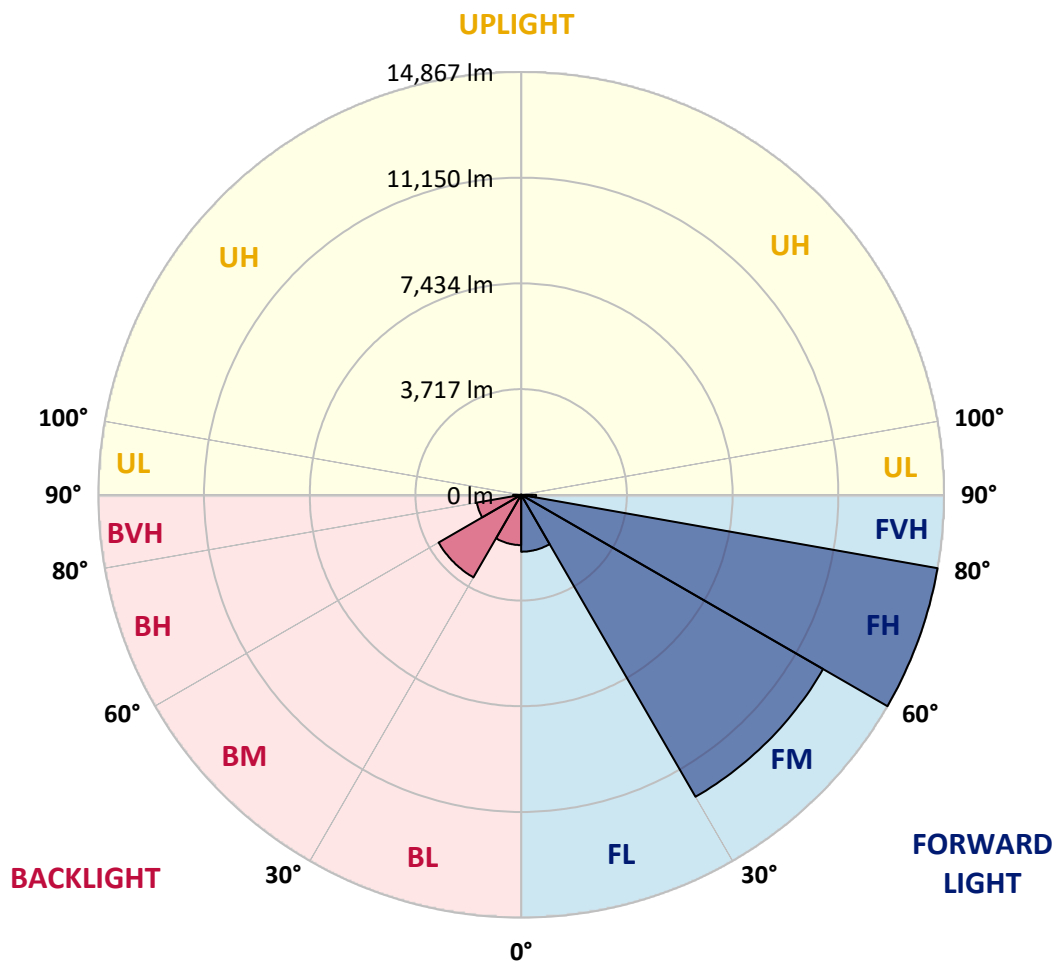
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2001.6	5.5			
FM	(30°-60°)	12259.0	33.5			
FH	(60°-80°)	14867.3	40.6			G5
FVH	(80°-90°)	521.4	1.4			G4/750
BL	(0°-30°)	1768.2	4.8	B3/2500		
BM	(30°-60°)	3353.3	9.2	B3/5000		
BH	(60°-80°)	1580.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	285.2	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5529.7	5529.7	5529.7	5529.7	5529.7	5529.7	5529.7	5529.7	5529.7	5529.7	5529.7
2.5°	5311.5	5322.0	5309.7	5325.6	5352.0	5380.1	5399.4	5427.6	5459.3	5503.3	5513.8
5°	5061.7	5077.5	5077.5	5105.6	5156.7	5202.4	5244.7	5290.4	5357.2	5432.9	5462.8
7.5°	4787.2	4796.0	4811.9	4854.1	4928.0	4993.0	5052.9	5126.7	5218.3	5318.5	5371.3
10°	4456.5	4468.8	4493.4	4553.3	4653.5	4743.2	4829.5	4931.4	5047.5	5172.6	5239.3
12.5°	4222.4	4219.0	4229.5	4273.5	4361.5	4470.5	4595.4	4725.6	4868.1	5014.2	5095.1
15°	4143.3	4123.9	4083.5	4072.9	4120.4	4229.5	4373.7	4533.8	4704.6	4880.5	4980.7
17.5°	4192.6	4159.1	4048.3	3967.3	3960.4	4043.0	4196.0	4375.6	4572.6	4787.2	4912.1
20°	4502.2	4423.0	4150.3	3962.1	3896.9	3937.4	4071.1	4261.2	4493.4	4778.4	4938.5
22.5°	5242.9	5126.7	4547.9	4197.8	3977.9	3928.6	4028.9	4231.2	4502.2	4887.5	5091.5
25°	6321.3	6156.0	5230.6	4785.5	4331.6	4069.4	4092.3	4299.9	4627.1	5140.8	5387.2
27.5°	7172.9	7065.6	6122.6	5614.2	4975.4	4449.4	4298.1	4472.2	4882.2	5556.1	5807.6
30°	7679.6	7614.5	7076.2	6553.6	5797.1	5054.6	4692.2	4796.0	5281.6	6131.4	6338.9
32.5°	8267.2	8228.5	7964.6	7484.3	6683.8	5849.8	5316.8	5279.9	5816.4	6822.8	6917.8
35°	8875.9	8863.7	8708.8	8364.0	7635.6	6898.5	6145.5	5895.6	6398.8	7540.6	7480.7
37.5°	9442.4	9421.4	9331.7	9131.1	8631.5	8024.4	6989.9	6527.2	7026.9	8226.8	7961.1
40°	10485.8	10320.3	10012.5	9861.2	9637.7	8972.7	7660.3	7116.6	7677.9	8881.3	8376.3
42.5°	11757.8	11488.6	10915.1	10707.4	10675.8	9720.5	8117.6	7688.4	8334.1	9530.4	8784.5
45°	12758.9	12505.5	12011.1	11749.0	11865.1	10397.8	8576.8	8298.9	9009.6	10211.3	9204.9
47.5°	13826.8	13429.2	12774.7	12853.9	13107.2	11038.3	9044.8	8955.1	9750.4	10973.1	9727.4
50°	13865.5	13561.2	13274.3	13747.6	14141.7	11627.6	9630.7	9643.1	10656.4	11932.0	10422.4
52.5°	13061.4	12996.4	13452.0	14196.2	14764.6	12093.8	10297.5	10353.8	11815.8	13033.3	11186.0
55°	12779.9	12706.1	13232.1	14039.7	14848.9	12479.1	11020.7	11122.6	13218.1	14194.5	11930.2
57.5°	13466.1	13302.5	13337.6	13965.7	14643.1	12901.4	11808.8	12014.7	14741.6	15209.6	12408.7
60°	15383.9	15033.7	14368.7	14352.8	14753.9	13534.8	12720.2	12971.7	16325.1	15695.2	12222.2
62.5°	18073.9	17723.7	16478.1	15667.1	15607.3	14579.8	13839.1	13906.0	17239.9	15037.3	11084.0
65°	20985.6	20672.4	19280.8	18135.5	17583.0	16311.0	15139.3	14322.9	16940.9	13226.9	9092.4
67.5°	24520.1	24184.1	22987.8	21930.4	21399.1	19104.8	16052.3	13923.6	15042.5	10246.5	6536.0
70°	26992.1	26649.0	26177.5	27034.2	28334.4	23135.6	16170.3	12299.7	11235.3	6810.5	3934.0
72.5°	23767.1	23607.0	24467.3	28075.8	33491.1	25581.0	14616.7	8955.1	6525.5	3615.5	2276.6
73°	21775.6	21740.4	23207.7	27345.7	33528.0	25204.6	13935.9	8323.5	5596.6	3198.5	2081.3
75°	9833.0	10116.3	13332.4	20887.1	29129.6	20769.2	9808.5	4774.9	3161.5	2209.8	1571.2
77.5°	2362.8	2461.3	4171.4	9919.2	18395.8	12377.1	4444.1	2361.1	2021.5	1560.5	1147.1
80°	1006.4	1039.8	1606.3	3664.7	8661.3	4984.2	2047.8	1581.7	1398.7	1089.0	804.0
82.5°	559.5	594.6	911.3	1662.6	3495.8	1699.5	1249.1	1101.3	920.1	656.2	522.5
85°	316.7	336.0	533.1	928.9	1481.3	682.6	747.8	731.9	519.0	337.8	256.9
87.5°	149.6	161.8	256.9	431.1	580.6	267.4	380.0	418.7	325.5	205.8	133.7
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°	5529.7	5529.7	5529.7	5529.7	5529.7	5529.7	5529.7	5529.7	5529.7	5529.7
2.5°	5526.2	5557.8	5594.7	5614.2	5631.7	5652.8	5673.9	5673.9	5677.5	5679.2
5°	5487.4	5552.6	5610.6	5635.2	5640.4	5640.4	5635.2	5607.1	5582.4	5593.0
7.5°	5406.5	5501.5	5550.7	5541.9	5475.1	5397.7	5332.6	5253.5	5213.0	5205.9
10°	5290.4	5399.4	5408.2	5320.3	5155.0	4989.5	4852.3	4718.6	4655.2	4639.4
12.5°	5161.9	5262.3	5205.9	5024.7	4759.1	4518.1	4343.9	4208.4	4148.6	4132.7
15°	5058.2	5126.7	4984.2	4699.2	4364.9	4109.8	3965.6	3865.3	3823.1	3810.8
17.5°	5003.7	5017.7	4757.3	4372.0	4016.6	3803.7	3714.0	3666.5	3650.7	3641.9
20°	5030.0	4931.4	4540.9	4067.7	3731.6	3582.1	3560.9	3548.6	3545.1	3539.8
22.5°	5161.9	4905.0	4342.1	3779.1	3481.8	3416.7	3434.3	3432.5	3429.0	3425.5
25°	5397.7	4928.0	4148.6	3504.6	3272.4	3258.3	3290.0	3290.0	3275.9	3275.9
27.5°	5709.1	4975.4	3932.1	3244.3	3082.4	3084.2	3108.7	3101.8	3085.9	3075.4
30°	6089.1	5005.4	3678.8	3010.2	2904.7	2897.6	2904.7	2874.8	2827.3	2823.8
32.5°	6477.9	4968.5	3385.0	2802.7	2716.4	2700.6	2695.4	2653.1	2598.6	2582.7
35°	6829.8	4832.9	3085.9	2637.3	2537.0	2501.8	2526.5	2512.4	2463.1	2450.8
37.5°	7086.7	4581.4	2816.7	2491.3	2408.5	2399.7	2415.6	2420.9	2362.8	2350.5
40°	7259.1	4240.0	2586.2	2368.1	2383.9	2350.5	2297.8	2260.8	2243.2	2237.9
42.5°	7398.1	3884.7	2392.7	2310.0	2389.2	2292.4	2178.1	2118.2	2149.9	2164.1
45°	7558.2	3538.1	2230.9	2237.9	2362.8	2225.6	2095.4	2037.3	2049.7	2053.2
47.5°	7778.1	3115.8	2056.6	2121.8	2274.8	2179.8	2044.4	1961.7	1903.6	1877.2
50°	8082.4	2616.2	1875.5	1991.6	2188.6	2146.5	1965.2	1877.2	1769.9	1745.3
52.5°	8293.6	2149.9	1725.9	1882.5	2111.3	2079.6	1901.9	1787.5	1674.9	1653.8
55°	8179.2	1785.8	1595.7	1761.1	2009.2	1996.9	1849.1	1696.1	1608.1	1590.5
57.5°	7607.5	1555.3	1495.5	1646.7	1884.3	1926.5	1778.7	1618.6	1555.3	1542.9
60°	6516.7	1411.0	1432.1	1569.3	1782.2	1856.1	1708.3	1576.4	1534.1	1525.3
62.5°	5056.3	1314.3	1384.6	1513.0	1703.0	1806.8	1669.7	1571.2	1555.3	1544.8
65°	3622.5	1236.8	1333.6	1456.8	1630.9	1761.1	1655.5	1564.1	1567.6	1558.8
67.5°	2461.3	1168.2	1272.0	1393.4	1560.5	1720.6	1636.2	1539.4	1583.4	1572.9
70°	1722.4	1101.3	1199.9	1312.4	1472.5	1664.3	1601.0	1502.5	1498.9	1456.8
72.5°	1344.2	1013.4	1101.3	1199.9	1360.0	1585.2	1530.6	1419.8	1361.8	1317.8
73°	1282.6	992.3	1076.8	1175.3	1335.4	1565.8	1511.3	1396.9	1331.9	1291.4
75°	1060.9	900.8	978.2	1066.1	1229.8	1474.4	1416.3	1293.1	1210.5	1185.8
77.5°	833.9	770.6	844.4	923.6	1083.7	1340.7	1275.5	1157.7	1111.9	1090.8
80°	617.6	638.6	703.8	774.1	939.5	1198.1	1140.1	1022.2	1226.3	1175.3
82.5°	434.5	483.9	543.6	607.0	788.2	1059.2	988.8	867.4	897.2	745.9
85°	256.9	316.7	373.0	427.5	568.2	877.9	816.3	691.4	566.5	540.1
87.5°	149.6	175.9	191.8	248.1	390.6	661.5	575.3	512.0	293.8	198.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)