

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: P268875

Luminaire Tested: **GAN-AF-09-LED-U-T4FT-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268875
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA 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: 37578 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - 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

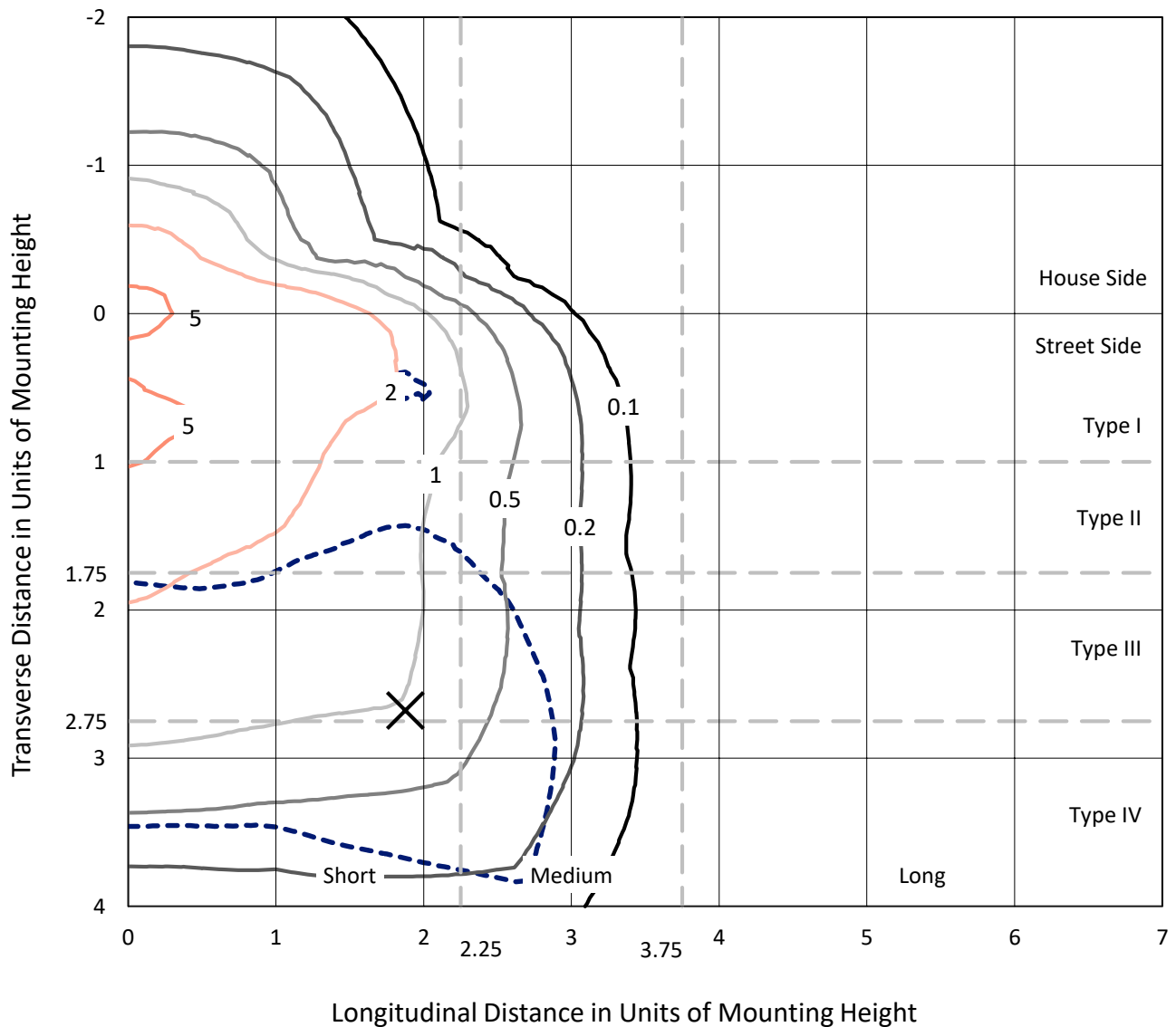


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

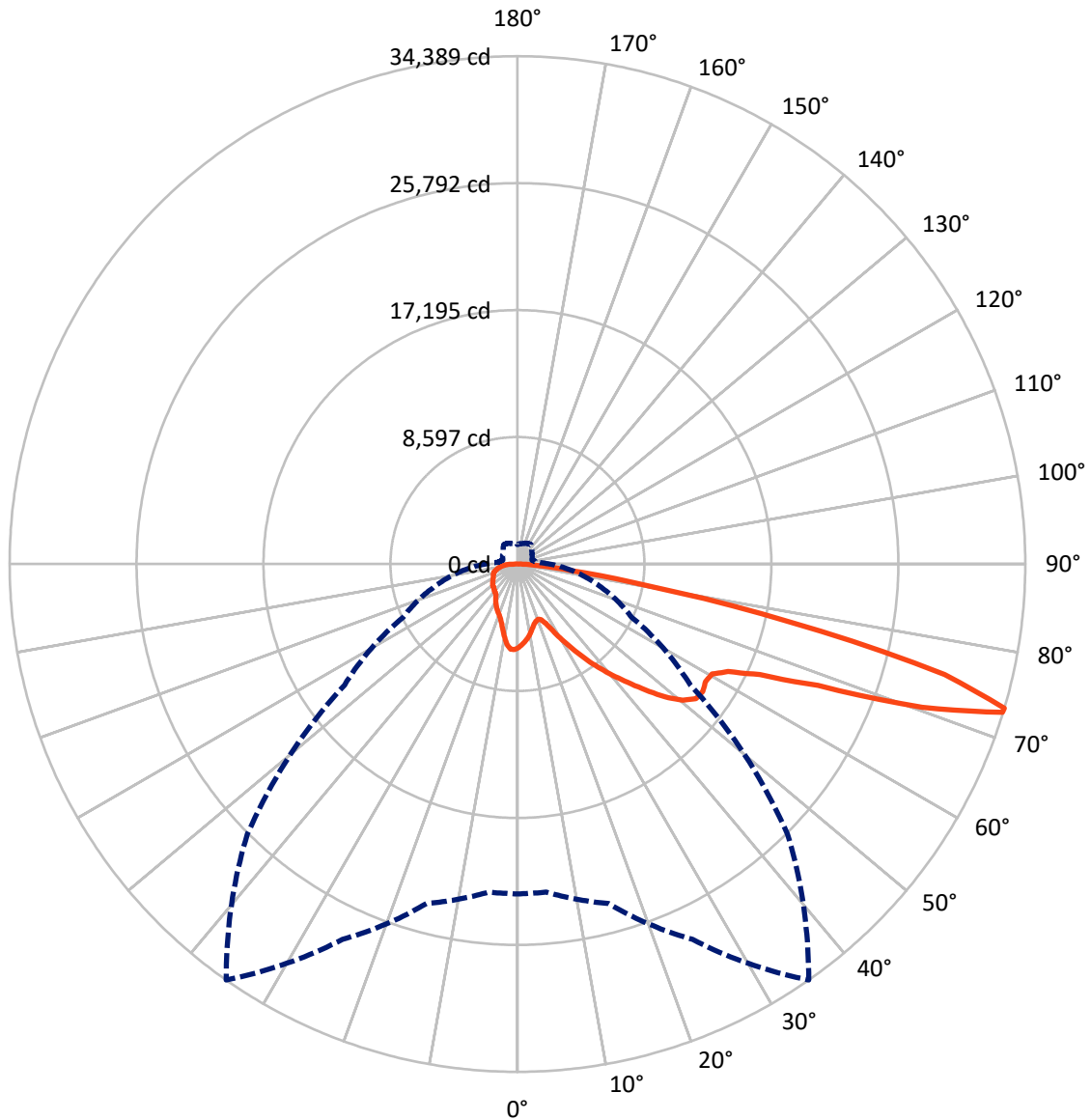


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Non-Cutoff

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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	7167.1	0.0	7167.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	30410.8	0.0	30410.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	37578.0	0.0	37578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.5	1.4
10°-20°	1281.5	3.4
20°-30°	2071.7	5.5
30°-40°	3474.0	9.2
40°-50°	5355.0	14.3
50°-60°	7184.3	19.1
60°-70°	9570.9	25.5
70°-80°	7299.7	19.4
80°-90°	827.4	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°	37578.0	100.0
0°-180°	37578.0	100.0

Coefficient of Utilization



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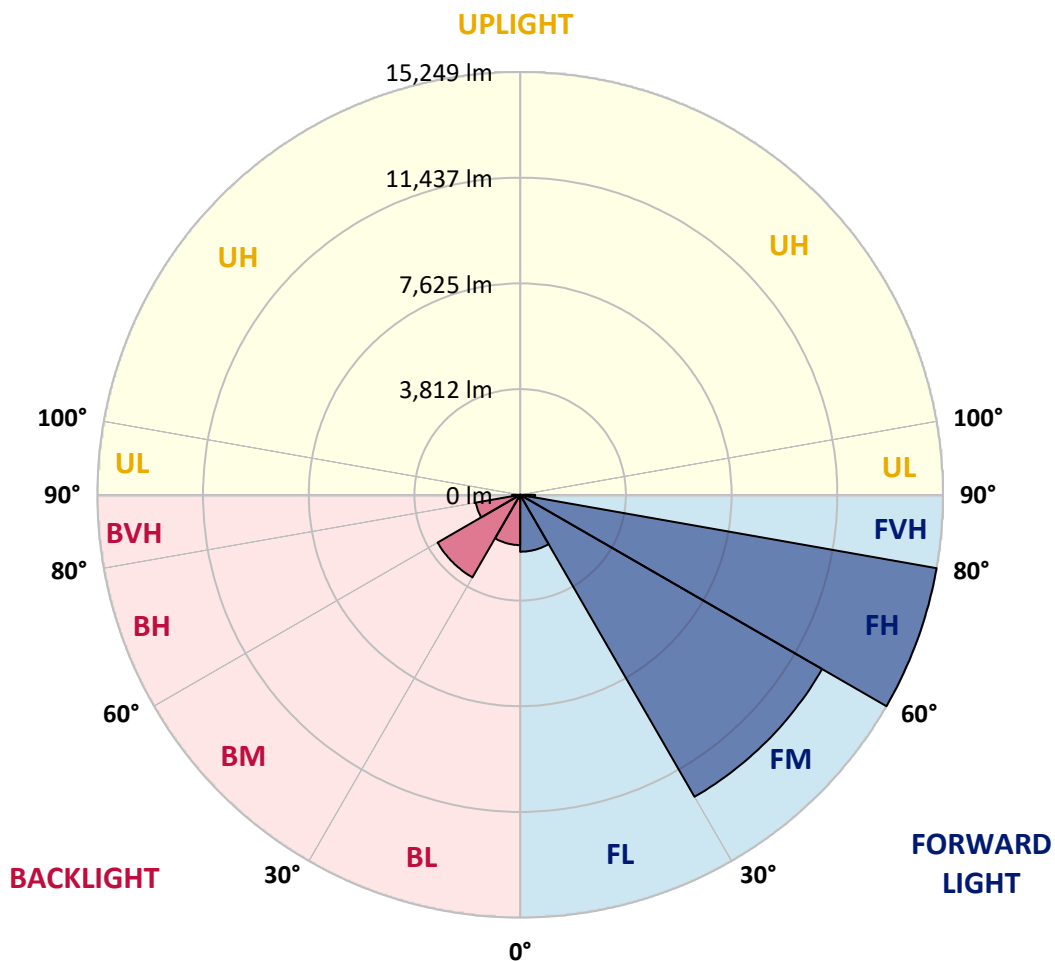
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2053.0	5.5			
FM	(30°-60°)	12573.8	33.5			
FH	(60°-80°)	15249.1	40.6			G5
FVH	(80°-90°)	534.8	1.4			G4/750
BL	(0°-30°)	1813.6	4.8	B3/2500		
BM	(30°-60°)	3439.4	9.2	B3/5000		
BH	(60°-80°)	1621.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	292.6	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°	5671.7	5671.7	5671.7	5671.7	5671.7	5671.7	5671.7	5671.7	5671.7	5671.7	5671.7
2.5°	5448.0	5458.7	5446.2	5462.4	5489.5	5518.3	5538.1	5567.1	5599.6	5644.6	5655.5
5°	5191.7	5208.0	5208.0	5236.8	5289.1	5336.0	5379.3	5426.2	5494.8	5572.5	5603.1
7.5°	4910.1	4919.2	4935.5	4978.8	5054.6	5121.2	5182.6	5258.5	5352.3	5455.1	5509.2
10°	4570.9	4583.5	4608.8	4670.2	4773.1	4865.0	4953.4	5058.1	5177.2	5305.4	5373.9
12.5°	4330.9	4327.2	4338.2	4383.2	4473.5	4585.4	4713.4	4847.1	4993.1	5142.9	5226.0
15°	4249.7	4229.8	4188.3	4177.5	4226.3	4338.2	4486.0	4650.3	4825.3	5005.9	5108.8
17.5°	4300.2	4266.0	4152.2	4069.2	4062.0	4146.8	4303.8	4487.9	4690.1	4910.1	5038.4
20°	4617.8	4536.6	4256.9	4063.8	3997.1	4038.6	4175.7	4370.7	4608.8	4901.2	5065.4
22.5°	5377.6	5258.5	4664.8	4305.7	4080.1	4029.5	4132.5	4339.9	4617.8	5013.0	5222.3
25°	6483.7	6314.0	5364.9	4908.3	4442.7	4174.0	4197.4	4410.3	4745.9	5273.0	5525.6
27.5°	7357.1	7247.0	6279.8	5758.3	5103.2	4563.7	4408.5	4587.1	5007.6	5698.8	5956.8
30°	7876.9	7810.0	7257.9	6721.9	5946.1	5184.5	4812.7	4919.2	5417.3	6288.9	6501.8
32.5°	8479.6	8439.8	8169.1	7676.6	6855.4	6000.0	5453.3	5415.4	5965.9	6998.1	7095.4
35°	9104.0	9091.2	8932.4	8578.9	7831.8	7075.6	6303.2	6047.0	6563.1	7734.2	7673.0
37.5°	9684.9	9663.3	9571.4	9365.5	8853.1	8230.5	7169.5	6694.9	7207.3	8438.0	8165.6
40°	10755.0	10585.4	10269.7	10114.5	9885.3	9203.1	7856.9	7299.4	7875.0	9109.4	8591.4
42.5°	12059.7	11783.6	11195.3	10982.5	10950.0	9970.1	8326.2	7886.0	8548.1	9775.3	9010.1
45°	13086.6	12826.7	12319.6	12050.8	12169.9	10664.9	8797.1	8512.0	9241.0	10473.6	9441.4
47.5°	14181.9	13774.2	13102.8	13184.1	13443.9	11321.7	9277.2	9185.1	10000.8	11255.0	9977.4
50°	14221.6	13909.4	13615.3	14100.8	14504.9	11926.3	9878.1	9890.7	10930.1	12238.4	10690.1
52.5°	13397.0	13330.2	13797.5	14560.8	15143.7	12404.4	10562.0	10619.8	12119.4	13368.0	11473.3
55°	13108.2	13032.4	13572.0	14400.3	15230.4	12799.6	11303.6	11408.4	13557.5	14559.1	12236.6
57.5°	13812.0	13644.1	13680.3	14324.6	15019.2	13232.8	12112.0	12323.3	15120.4	15600.2	12727.5
60°	15779.0	15419.9	14737.8	14721.5	15132.8	13882.3	13046.9	13304.8	16744.3	16098.3	12536.1
62.5°	18538.1	18179.0	16901.4	16069.5	16008.2	14954.3	14194.6	14263.1	17682.7	15423.4	11368.6
65°	21524.6	21203.5	19775.9	18601.3	18034.6	16729.9	15528.1	14690.8	17375.9	13566.6	9325.8
67.5°	25149.9	24805.3	23578.3	22493.6	21948.6	19595.5	16464.7	14281.2	15428.8	10509.7	6704.0
70°	27685.4	27333.4	26849.8	27728.6	29062.1	23729.7	16585.5	12615.5	11523.8	6985.4	4034.9
72.5°	24377.7	24213.4	25095.8	28797.0	34351.4	26238.1	14992.2	9185.1	6693.0	3708.4	2335.1
73°	22334.9	22298.7	23803.7	28048.0	34389.3	25852.0	14293.8	8537.3	5740.3	3280.7	2134.8
75°	10085.6	10376.1	13674.9	21423.6	29877.8	21302.6	10060.4	4897.5	3242.8	2266.6	1611.5
77.5°	2423.4	2524.5	4278.5	10174.1	18868.3	12694.9	4558.3	2421.7	2073.4	1600.6	1176.6
80°	1032.2	1066.5	1647.5	3758.9	8883.8	5112.3	2100.4	1622.2	1434.7	1117.0	824.6
82.5°	573.8	609.9	934.7	1705.3	3585.7	1743.3	1281.3	1129.7	943.8	673.1	536.0
85°	324.7	344.7	546.8	952.8	1519.5	700.1	767.0	750.8	532.3	346.4	263.5
87.5°	153.4	166.0	263.5	442.1	595.4	274.3	389.8	429.5	333.8	211.1	137.1
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°	5671.7	5671.7	5671.7	5671.7	5671.7	5671.7	5671.7	5671.7	5671.7	5671.7
2.5°	5668.0	5700.6	5738.5	5758.3	5776.3	5798.0	5819.7	5819.7	5823.3	5825.1
5°	5628.4	5695.2	5754.7	5780.0	5785.4	5785.4	5780.0	5751.0	5725.8	5736.7
7.5°	5545.3	5642.9	5693.4	5684.4	5615.8	5536.3	5469.6	5388.4	5346.9	5339.6
10°	5426.2	5538.1	5547.2	5456.9	5287.3	5117.6	4976.9	4839.8	4774.9	4758.6
12.5°	5294.5	5397.3	5339.6	5153.8	4881.3	4634.0	4455.5	4316.4	4255.1	4238.9
15°	5188.2	5258.5	5112.3	4819.9	4477.1	4215.4	4067.4	3964.6	3921.3	3908.6
17.5°	5132.1	5146.6	4879.6	4484.2	4119.7	3901.3	3809.4	3760.7	3744.4	3735.4
20°	5159.1	5058.1	4657.5	4172.1	3827.5	3674.1	3652.4	3639.8	3636.2	3630.7
22.5°	5294.5	5031.0	4453.5	3876.1	3571.2	3504.4	3522.4	3520.6	3517.0	3513.5
25°	5536.3	5054.6	4255.1	3594.7	3356.4	3342.1	3374.6	3374.6	3360.1	3360.1
27.5°	5855.7	5103.2	4033.2	3327.6	3161.6	3163.4	3188.7	3181.3	3165.2	3154.4
30°	6245.6	5134.0	3773.3	3087.6	2979.3	2972.1	2979.3	2948.6	2899.9	2896.2
32.5°	6644.4	5096.1	3471.9	2874.7	2786.3	2770.0	2764.5	2721.2	2665.4	2649.1
35°	7005.3	4957.0	3165.2	2705.1	2602.2	2566.1	2591.3	2576.9	2526.4	2513.7
37.5°	7268.7	4699.0	2889.0	2555.1	2470.3	2461.4	2477.6	2483.1	2423.4	2411.0
40°	7445.5	4349.0	2652.7	2428.8	2445.1	2411.0	2356.8	2318.9	2300.7	2295.3
42.5°	7588.2	3984.4	2454.2	2369.4	2450.5	2351.4	2234.1	2172.7	2205.2	2219.6
45°	7752.4	3629.0	2288.2	2295.3	2423.4	2282.8	2149.3	2089.6	2102.4	2105.8
47.5°	7977.8	3195.8	2109.5	2176.2	2333.3	2235.8	2096.9	2012.1	1952.6	1925.4
50°	8290.1	2683.3	1923.6	2042.7	2244.9	2201.6	2015.6	1925.4	1815.4	1790.1
52.5°	8506.6	2205.2	1770.3	1930.8	2165.5	2132.9	1950.7	1833.4	1717.9	1696.3
55°	8389.4	1831.6	1636.7	1806.3	2060.8	2048.1	1896.6	1739.6	1649.4	1631.3
57.5°	7802.9	1595.2	1533.9	1689.1	1932.7	1976.0	1824.4	1660.2	1595.2	1582.5
60°	6684.0	1447.3	1468.9	1609.7	1828.1	1903.8	1752.2	1616.9	1573.7	1564.6
62.5°	5186.3	1347.9	1420.2	1551.9	1746.8	1853.3	1712.4	1611.5	1595.2	1584.4
65°	3715.6	1268.5	1367.8	1494.2	1672.9	1806.3	1698.1	1604.3	1607.8	1598.9
67.5°	2524.5	1198.2	1304.7	1429.3	1600.6	1764.8	1678.3	1579.0	1624.0	1613.3
70°	1766.6	1129.7	1230.7	1346.2	1510.4	1707.0	1642.1	1541.1	1537.4	1494.2
72.5°	1378.7	1039.3	1129.7	1230.7	1394.9	1625.9	1570.0	1456.2	1396.8	1351.6
73°	1315.5	1017.8	1104.3	1205.4	1369.6	1606.0	1550.1	1432.7	1366.1	1324.6
75°	1088.1	923.9	1003.3	1093.5	1261.4	1512.1	1452.6	1326.3	1241.5	1216.2
77.5°	855.4	790.4	866.1	947.4	1111.7	1375.0	1308.3	1187.4	1140.5	1118.7
80°	633.3	655.0	721.8	794.0	963.6	1228.9	1169.4	1048.4	1257.7	1205.4
82.5°	445.6	496.3	557.6	622.5	808.5	1086.3	1014.1	889.6	920.4	765.1
85°	263.5	324.7	382.6	438.6	582.9	900.6	837.3	709.2	581.1	554.0
87.5°	153.4	180.5	196.6	254.4	400.6	678.5	590.0	525.1	301.3	203.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)