

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: P193256

Luminaire Tested: **GAN-AF-08-LED-U-T4FT-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193256
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-08-LED-U-T4FT-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA 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: 30581.7 lumens
Efficiency: N/A
Efficacy: 119.0 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): 257
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

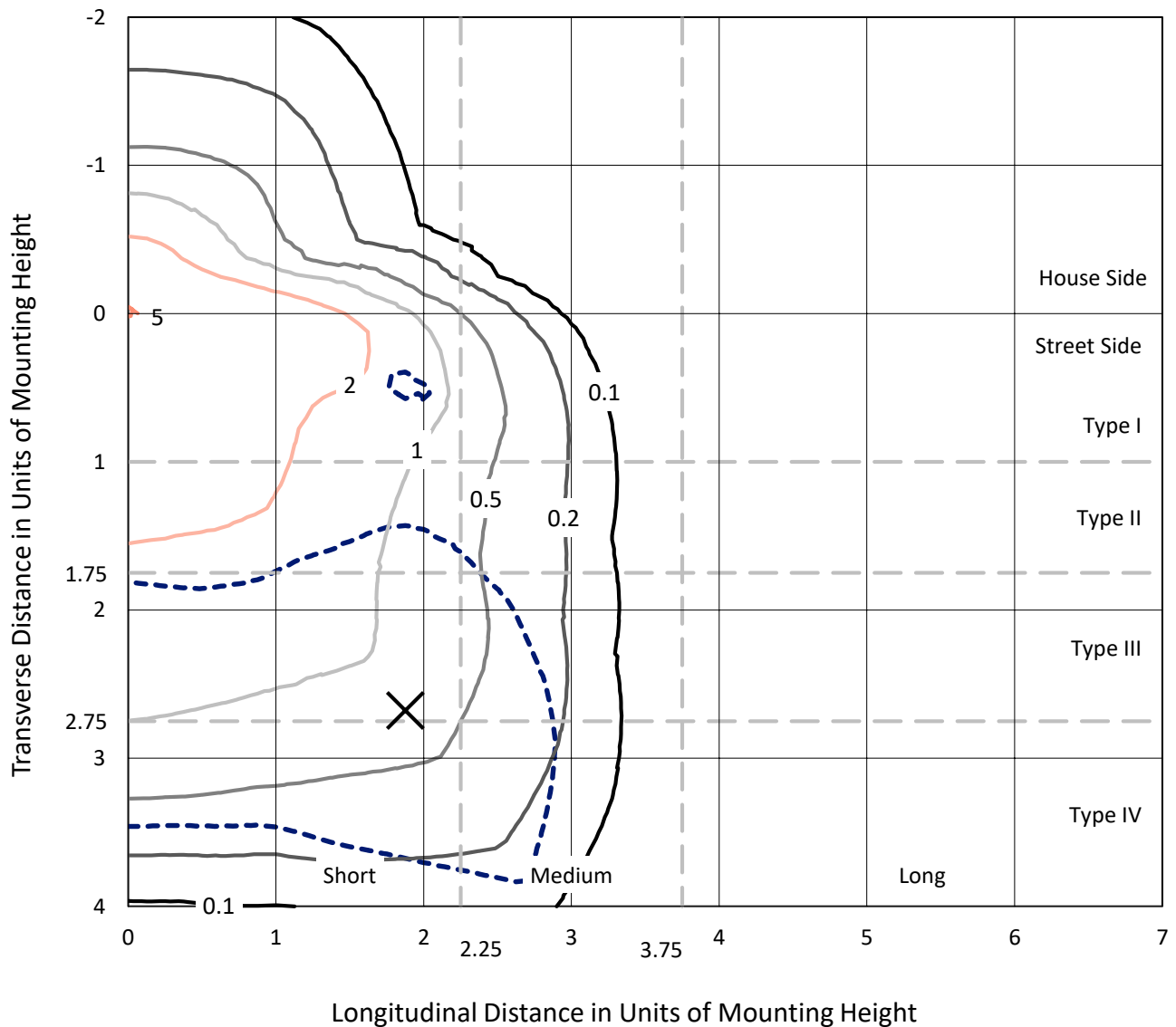


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

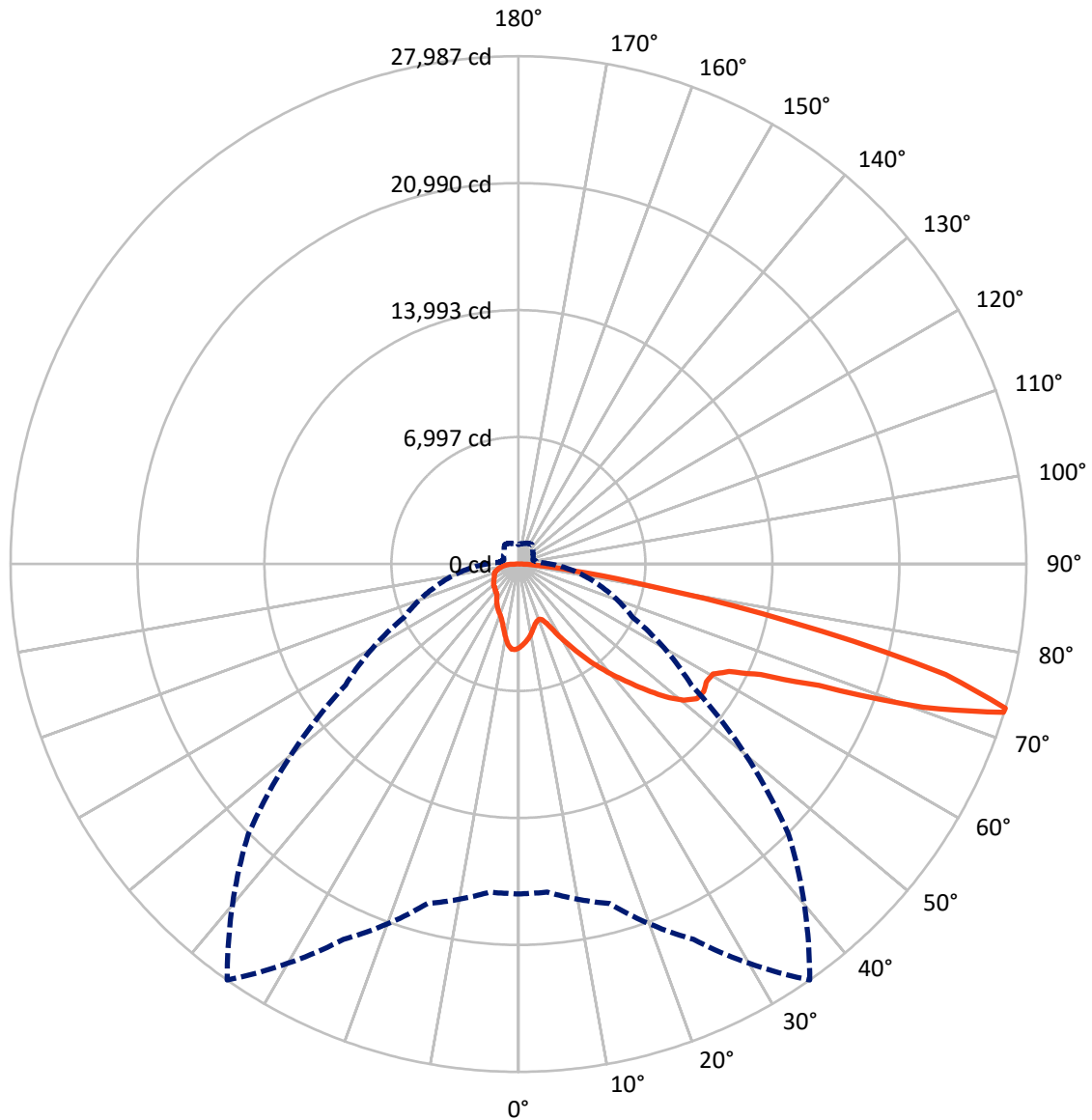


Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Non-Cutoff

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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	5832.8	0.0	5832.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	24748.9	0.0	24748.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	30581.7	0.0	30581.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.9	1.4
10°-20°	1042.9	3.4
20°-30°	1686.0	5.5
30°-40°	2827.2	9.2
40°-50°	4358.0	14.3
50°-60°	5846.7	19.1
60°-70°	7789.0	25.5
70°-80°	5940.6	19.4
80°-90°	673.3	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°	30581.7	100.0
0°-180°	30581.7	100.0

Coefficient of Utilization



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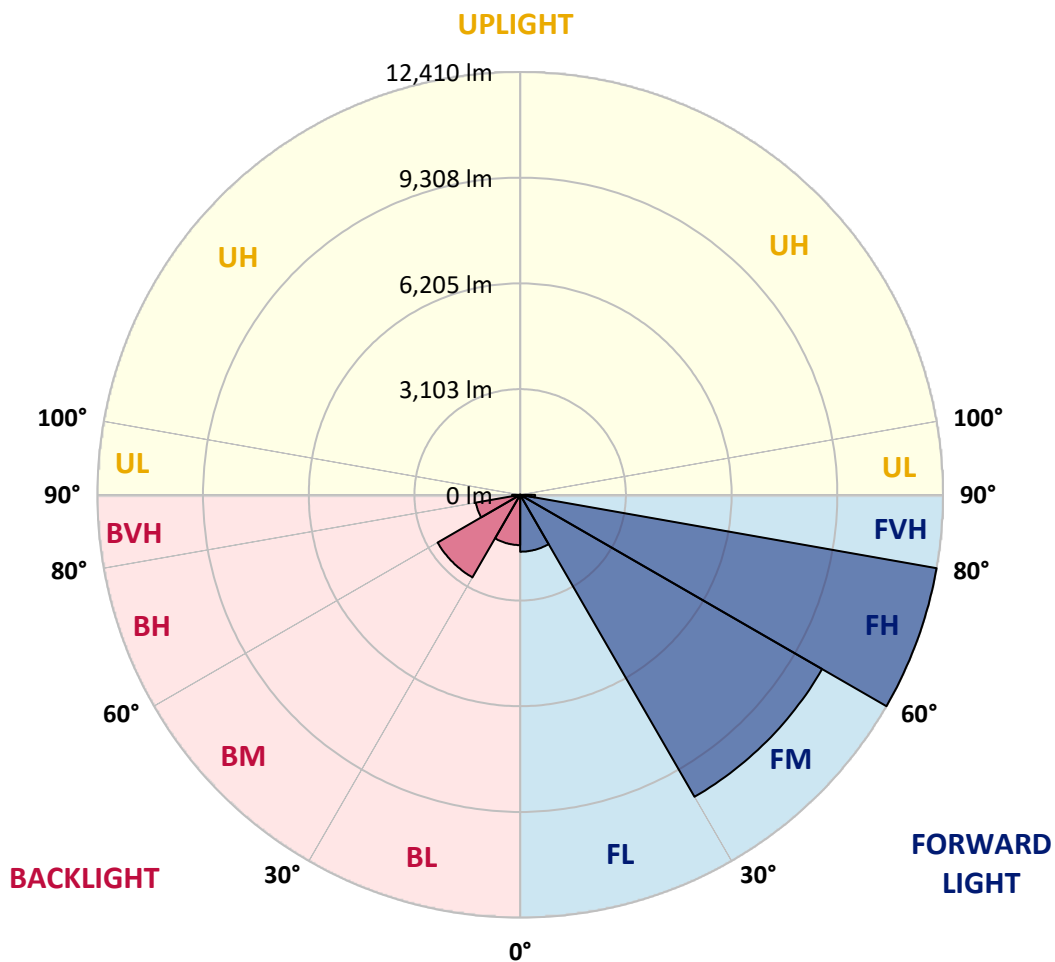
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1670.8	5.5			
FM	(30°-60°)	10232.8	33.5			
FH	(60°-80°)	12410.0	40.6			G5
FVH	(80°-90°)	435.3	1.4			G3/500
BL	(0°-30°)	1476.0	4.8	B3/2500		
BM	(30°-60°)	2799.1	9.2	B3/5000		
BH	(60°-80°)	1319.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	238.1	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°	4615.7	4615.7	4615.7	4615.7	4615.7	4615.7	4615.7	4615.7	4615.7	4615.7	4615.7
2.5°	4433.6	4442.5	4432.1	4445.3	4467.4	4490.9	4507.1	4530.6	4556.9	4593.7	4602.5
5°	4225.0	4238.2	4238.2	4261.7	4304.4	4342.6	4377.8	4416.0	4471.8	4535.0	4559.9
7.5°	3995.9	4003.4	4016.6	4051.8	4113.5	4167.8	4217.7	4279.4	4355.8	4439.5	4483.6
10°	3719.8	3730.2	3750.8	3800.7	3884.3	3959.2	4031.2	4116.5	4213.4	4317.6	4373.4
12.5°	3524.6	3521.7	3530.5	3567.2	3640.6	3731.6	3835.9	3944.6	4063.6	4185.4	4253.0
15°	3458.5	3442.3	3408.6	3399.7	3439.4	3530.5	3650.9	3784.5	3927.0	4073.8	4157.6
17.5°	3499.6	3471.7	3379.2	3311.6	3305.7	3374.8	3502.6	3652.3	3816.9	3995.9	4100.3
20°	3758.1	3692.0	3464.4	3307.3	3252.8	3286.6	3398.3	3556.9	3750.8	3988.6	4122.3
22.5°	4376.4	4279.4	3796.2	3504.1	3320.4	3279.3	3363.0	3532.0	3758.1	4079.7	4250.0
25°	5276.5	5138.6	4366.1	3994.5	3615.6	3396.8	3415.9	3589.1	3862.4	4291.1	4496.8
27.5°	5987.4	5897.9	5110.6	4686.2	4153.2	3714.0	3587.7	3733.1	4075.3	4637.7	4847.8
30°	6410.3	6355.9	5906.5	5470.4	4839.0	4219.1	3916.7	4003.4	4408.6	5117.9	5291.3
32.5°	6900.9	6868.5	6648.2	6247.3	5579.1	4883.1	4438.0	4407.2	4855.2	5695.1	5774.5
35°	7409.0	7398.7	7269.4	6981.5	6373.6	5758.3	5129.7	4921.1	5341.2	6294.3	6244.3
37.5°	7881.9	7864.2	7789.3	7621.9	7204.8	6698.1	5834.7	5448.4	5865.5	6867.1	6645.2
40°	8752.6	8614.6	8357.7	8231.4	8044.9	7489.7	6394.2	5940.4	6408.8	7413.4	6991.8
42.5°	9814.4	9589.8	9111.0	8937.7	8911.3	8113.8	6776.0	6417.7	6956.6	7955.2	7332.6
45°	10650.0	10438.6	10025.9	9807.1	9904.1	8679.2	7159.3	6927.2	7520.6	8523.7	7683.5
47.5°	11541.5	11209.6	10663.2	10729.4	10940.9	9213.9	7550.0	7475.1	8138.8	9159.5	8119.7
50°	11573.9	11319.8	11080.4	11475.4	11804.4	9705.8	8039.0	8049.2	8895.2	9959.8	8699.9
52.5°	10902.7	10848.4	11228.7	11849.9	12324.2	10095.0	8595.5	8642.5	9863.0	10879.2	9337.2
55°	10667.7	10606.1	11045.1	11719.2	12394.7	10416.6	9199.2	9284.3	11033.4	11848.4	9958.4
57.5°	11240.5	11103.9	11133.3	11657.5	12223.0	10769.0	9857.1	10028.9	12305.3	12695.8	10357.9
60°	12841.2	12549.0	11993.8	11980.6	12315.4	11297.7	10617.9	10827.8	13627.0	13101.2	10202.2
62.5°	15086.6	14794.4	13754.6	13077.7	13027.7	12170.1	11551.8	11607.6	14390.5	12551.9	9252.0
65°	17517.1	17255.8	16094.1	15138.1	14676.9	13615.2	12637.0	11955.7	14140.9	11040.7	7589.5
67.5°	20467.5	20187.0	19188.3	18305.8	17862.2	15947.3	13399.2	11622.2	12556.3	8553.0	5455.8
70°	22530.8	22244.4	21850.9	22566.1	23651.4	19311.7	13497.7	10266.8	9378.3	5684.9	3283.7
72.5°	19839.0	19705.4	20423.4	23435.4	27955.7	21353.1	12200.9	7475.1	5446.9	3018.0	1900.3
73°	18176.5	18147.2	19372.0	22826.0	27986.5	21038.8	11632.7	6947.8	4671.5	2669.9	1737.3
75°	8207.9	8444.3	11128.8	17434.9	24315.1	17336.5	8187.4	3985.7	2639.0	1844.6	1311.4
77.5°	1972.2	2054.5	3482.0	8279.7	15355.4	10331.4	3709.6	1970.8	1687.4	1302.6	957.5
80°	839.9	867.9	1340.8	3059.0	7229.8	4160.5	1709.5	1320.3	1167.6	909.0	671.2
82.5°	467.0	496.4	760.8	1387.8	2918.1	1418.6	1042.7	919.3	768.1	547.8	436.2
85°	264.3	280.5	445.0	775.4	1236.5	569.8	624.1	611.0	433.2	282.0	214.3
87.5°	124.8	135.2	214.3	359.8	484.7	223.2	317.2	349.5	271.7	171.9	111.7
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°	4615.7	4615.7	4615.7	4615.7	4615.7	4615.7	4615.7	4615.7	4615.7	4615.7
2.5°	4612.8	4639.2	4670.1	4686.2	4700.9	4718.5	4736.2	4736.2	4739.1	4740.5
5°	4580.4	4634.8	4683.3	4703.8	4708.2	4708.2	4703.8	4680.3	4659.8	4668.5
7.5°	4513.0	4592.2	4633.3	4626.0	4570.2	4505.7	4451.2	4385.1	4351.4	4345.5
10°	4416.0	4507.1	4514.4	4441.0	4302.9	4164.9	4050.3	3938.7	3885.8	3872.5
12.5°	4308.7	4392.6	4345.5	4194.3	3972.4	3771.3	3625.9	3512.8	3462.9	3449.7
15°	4222.1	4279.4	4160.5	3922.5	3643.6	3430.6	3310.1	3226.4	3191.3	3181.0
17.5°	4176.7	4188.4	3971.0	3649.4	3352.7	3175.1	3100.1	3060.5	3047.2	3039.9
20°	4198.7	4116.5	3790.4	3395.3	3114.9	2990.0	2972.4	2962.1	2959.2	2954.8
22.5°	4308.7	4094.4	3624.4	3154.6	2906.3	2852.0	2866.6	2865.3	2862.3	2859.4
25°	4505.7	4113.5	3462.9	2925.4	2731.6	2719.8	2746.2	2746.2	2734.4	2734.4
27.5°	4765.6	4153.2	3282.2	2708.1	2572.9	2574.3	2595.0	2589.1	2575.9	2567.0
30°	5082.7	4178.1	3070.7	2512.8	2424.6	2418.8	2424.6	2399.7	2360.0	2357.0
32.5°	5407.2	4147.3	2825.6	2339.5	2267.4	2254.2	2249.8	2214.5	2169.2	2155.9
35°	5701.0	4034.2	2575.9	2201.3	2117.7	2088.3	2108.9	2097.1	2056.0	2045.8
37.5°	5915.4	3824.2	2351.2	2079.5	2010.5	2003.2	2016.4	2020.7	1972.2	1962.0
40°	6059.3	3539.2	2158.9	1976.7	1989.9	1962.0	1917.9	1887.1	1872.3	1868.0
42.5°	6175.4	3242.6	1997.3	1928.2	1994.3	1913.5	1818.1	1768.2	1794.6	1806.4
45°	6308.9	2953.3	1862.1	1868.0	1972.2	1857.7	1749.0	1700.6	1710.9	1713.8
47.5°	6492.5	2600.8	1716.8	1771.1	1898.8	1819.6	1706.5	1637.5	1588.9	1567.0
50°	6746.6	2183.8	1565.4	1662.4	1827.0	1791.7	1640.4	1567.0	1477.4	1456.9
52.5°	6922.8	1794.6	1440.7	1571.3	1762.3	1735.8	1587.5	1492.1	1398.1	1380.5
55°	6827.4	1490.7	1332.0	1470.1	1677.1	1666.9	1543.5	1415.7	1342.2	1327.6
57.5°	6350.1	1298.2	1248.3	1374.6	1572.8	1608.1	1484.8	1351.1	1298.2	1287.9
60°	5439.6	1177.9	1195.4	1310.0	1487.7	1549.3	1426.0	1315.8	1280.6	1273.2
62.5°	4220.6	1097.1	1155.8	1262.9	1421.6	1508.3	1393.7	1311.4	1298.2	1289.4
65°	3023.7	1032.4	1113.2	1215.9	1361.4	1470.1	1381.9	1305.5	1308.5	1301.2
67.5°	2054.5	975.1	1061.8	1163.1	1302.6	1436.2	1365.7	1285.0	1321.7	1312.9
70°	1437.8	919.3	1001.6	1095.6	1229.1	1389.2	1336.4	1254.2	1251.2	1215.9
72.5°	1122.0	845.8	919.3	1001.6	1135.2	1323.1	1277.7	1185.1	1136.7	1099.9
73°	1070.6	828.3	898.7	981.0	1114.7	1307.1	1261.5	1166.1	1111.7	1078.0
75°	885.5	751.9	816.5	889.9	1026.5	1230.7	1182.1	1079.4	1010.4	989.8
77.5°	696.1	643.2	704.9	771.1	904.6	1119.1	1064.7	966.3	928.1	910.5
80°	515.4	533.0	587.4	646.2	784.3	1000.0	951.6	853.2	1023.5	981.0
82.5°	362.7	403.8	453.8	506.6	658.0	884.1	825.4	724.0	749.0	622.7
85°	214.3	264.3	311.4	356.8	474.3	732.8	681.4	577.1	472.9	450.8
87.5°	124.8	146.9	160.1	207.0	326.0	552.2	480.2	427.3	245.3	166.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)