

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: P266875

Luminaire Tested: **GAN-AF-04-LED-U-T4FT-7027-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266875
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-04-LED-U-T4FT-7027-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA 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: 23022.6 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
Input Voltage (V): NR
Input Current (A_{in}): 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

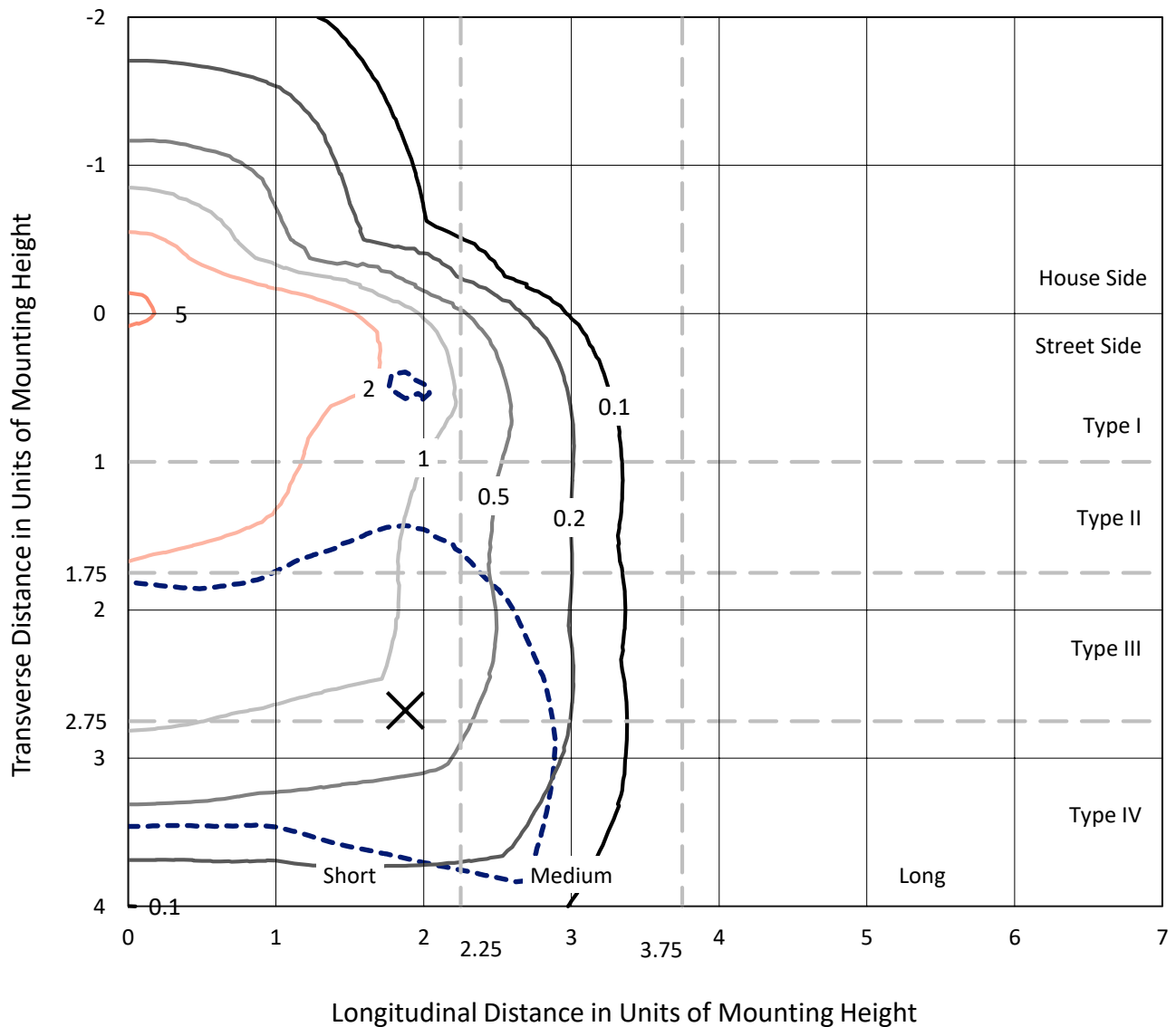


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

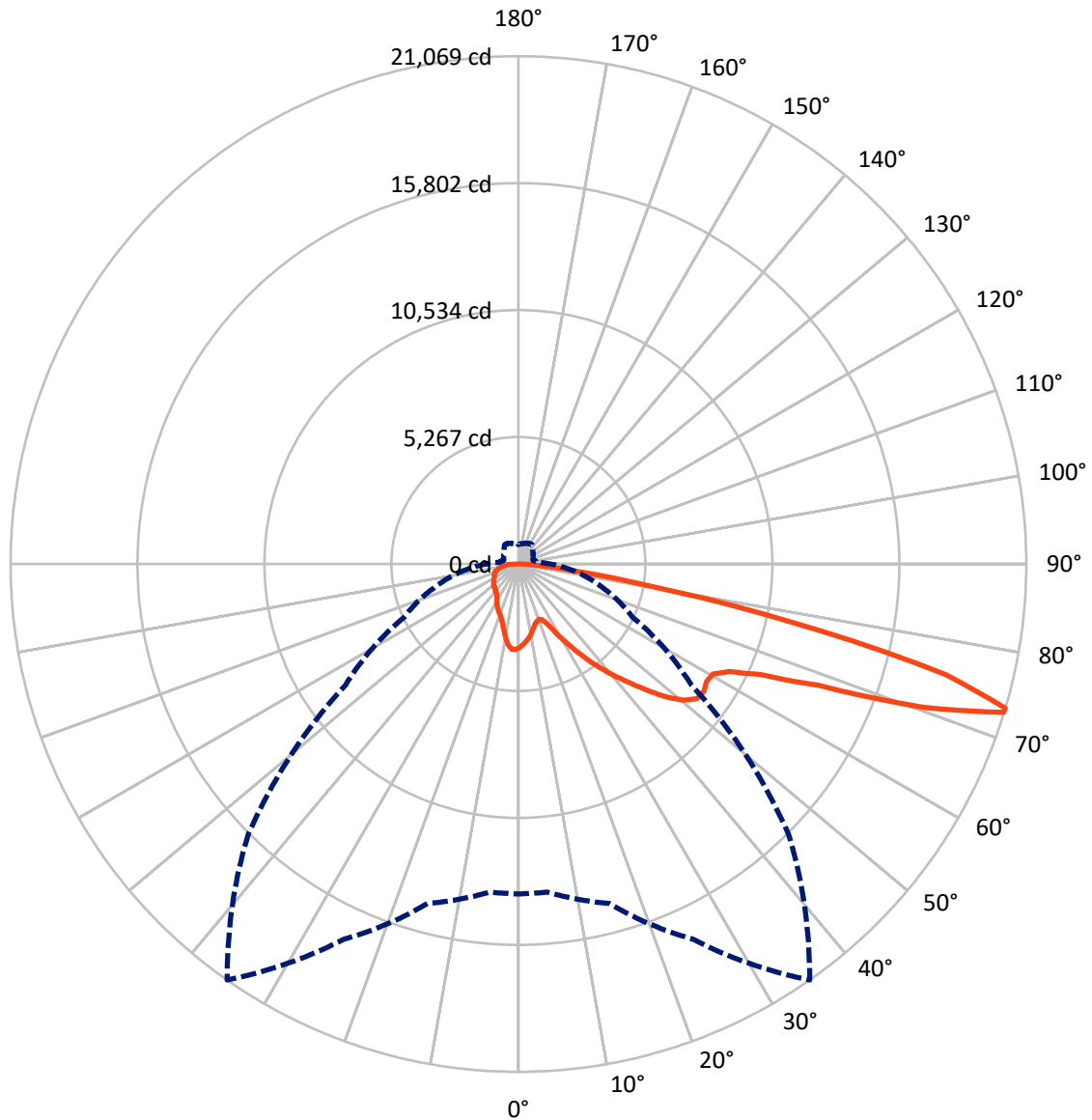


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Non-Cutoff

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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	4391.1	0.0	4391.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	18631.6	0.0	18631.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	23022.6	0.0	23022.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	1.4
10°-20°	785.1	3.4
20°-30°	1269.3	5.5
30°-40°	2128.4	9.2
40°-50°	3280.8	14.3
50°-60°	4401.6	19.1
60°-70°	5863.8	25.5
70°-80°	4472.3	19.4
80°-90°	506.9	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°	23022.6	100.0
0°-180°	23022.6	100.0

Coefficient of Utilization



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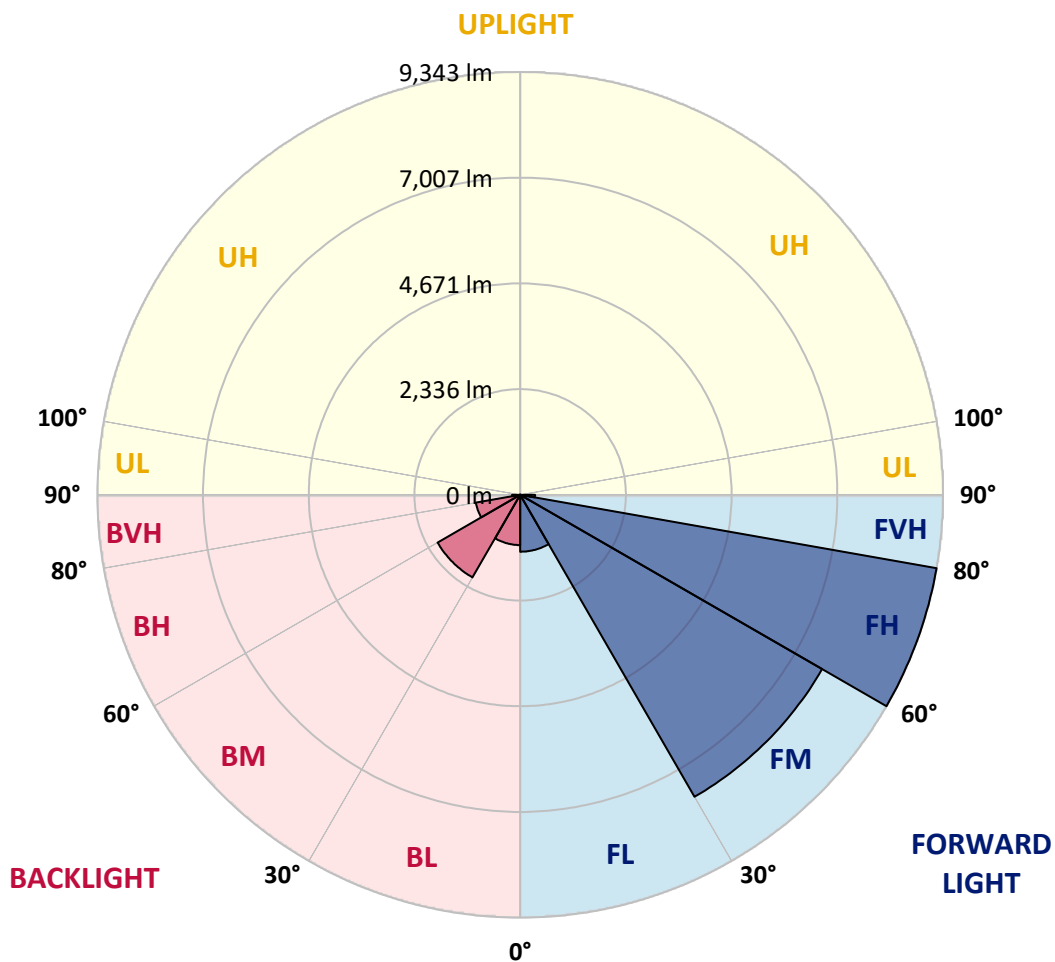
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.8	5.5			
FM	(30°-60°)	7703.5	33.5			
FH	(60°-80°)	9342.6	40.6			G4/12000
FVH	(80°-90°)	327.7	1.4			G3/500
BL	(0°-30°)	1111.1	4.8	B3/2500		
BM	(30°-60°)	2107.2	9.2	B2/2500		
BH	(60°-80°)	993.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	179.2	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9
2.5°	3337.7	3344.4	3336.7	3346.5	3363.2	3380.9	3393.0	3410.8	3430.5	3458.2	3464.9
5°	3180.8	3190.7	3190.7	3208.3	3240.5	3269.2	3295.7	3324.4	3366.5	3414.0	3432.9
7.5°	3008.2	3013.9	3023.8	3050.3	3096.6	3137.6	3175.1	3221.6	3279.2	3342.1	3375.3
10°	2800.5	2808.1	2823.6	2861.2	2924.3	2980.7	3034.8	3099.0	3171.8	3250.3	3292.4
12.5°	2653.4	2651.2	2657.8	2685.5	2740.6	2809.3	2887.8	2969.5	3059.1	3150.9	3201.7
15°	2603.6	2591.5	2566.1	2559.5	2589.3	2657.8	2748.5	2849.1	2956.3	3066.9	3129.9
17.5°	2634.5	2613.6	2543.9	2493.1	2488.7	2540.6	2636.9	2749.5	2873.4	3008.2	3086.8
20°	2829.2	2779.4	2608.0	2489.7	2448.9	2474.3	2558.4	2677.7	2823.6	3002.8	3103.4
22.5°	3294.7	3221.6	2857.9	2638.0	2499.8	2468.7	2531.8	2659.0	2829.2	3071.2	3199.6
25°	3972.3	3868.5	3286.9	3007.2	2722.0	2557.1	2571.6	2702.0	2907.6	3230.5	3385.3
27.5°	4507.4	4440.1	3847.4	3528.0	3126.6	2796.1	2700.9	2810.3	3068.0	3491.4	3649.5
30°	4825.9	4784.9	4446.6	4118.3	3642.8	3176.3	2948.5	3013.9	3319.0	3852.9	3983.4
32.5°	5195.1	5170.7	5004.9	4703.2	4200.0	3676.0	3341.1	3317.8	3655.1	4287.4	4347.1
35°	5577.7	5569.9	5472.7	5256.0	4798.1	4335.0	3861.8	3704.8	4021.0	4738.5	4700.9
37.5°	5933.7	5920.4	5864.0	5738.0	5424.0	5042.5	4392.4	4101.8	4415.7	5169.7	5002.8
40°	6589.2	6485.4	6291.9	6196.8	6056.4	5638.4	4813.7	4472.0	4824.7	5581.0	5263.7
42.5°	7388.6	7219.4	6859.0	6728.6	6708.6	6108.4	5101.1	4831.4	5237.1	5988.9	5520.2
45°	8017.6	7858.5	7547.7	7383.0	7456.0	6533.9	5389.7	5215.0	5661.7	6416.8	5784.4
47.5°	8688.8	8438.9	8027.7	8077.3	8236.6	6936.4	5683.8	5627.4	6127.1	6895.5	6112.7
50°	8713.0	8521.9	8341.7	8639.0	8886.7	7306.8	6051.9	6059.6	6696.4	7498.1	6549.5
52.5°	8207.9	8166.9	8453.2	8920.9	9278.1	7599.8	6470.9	6506.3	7425.0	8190.0	7029.2
55°	8030.8	7984.5	8315.0	8822.6	9331.1	7841.8	6925.4	6989.4	8306.2	8919.8	7497.0
57.5°	8462.0	8359.3	8381.4	8776.1	9201.7	8107.3	7420.5	7550.0	9263.6	9557.6	7797.6
60°	9667.2	9447.1	9029.3	9019.3	9271.3	8505.2	7993.3	8151.4	10258.6	9862.9	7680.5
62.5°	11357.6	11137.5	10354.9	9845.2	9807.5	9162.0	8696.4	8738.5	10833.6	9449.5	6965.2
65°	13187.3	12990.5	12116.0	11396.3	11049.2	10249.8	9513.5	9000.5	10645.6	8311.7	5713.6
67.5°	15408.4	15197.3	14445.5	13781.0	13447.1	12005.5	10087.2	8749.5	9452.7	6439.0	4107.2
70°	16961.7	16746.2	16449.9	16988.2	17805.3	14538.3	10161.4	7729.0	7060.1	4279.6	2472.0
72.5°	14935.2	14834.6	15375.3	17642.8	21045.8	16075.1	9185.1	5627.4	4100.7	2272.0	1430.6
73°	13683.7	13661.7	14583.7	17183.9	21068.9	15838.5	8757.2	5230.6	3516.9	2010.0	1307.9
75°	6179.1	6357.0	8378.0	13125.5	18305.0	13051.4	6163.6	3000.5	1986.7	1388.6	987.2
77.5°	1484.8	1546.7	2621.3	6233.2	11559.8	7777.7	2792.7	1483.7	1270.4	980.6	720.8
80°	632.3	653.3	1009.3	2303.0	5442.7	3132.1	1286.9	994.0	878.9	684.4	505.2
82.5°	351.5	373.6	572.7	1044.8	2196.7	1067.9	784.9	692.1	578.1	412.4	328.4
85°	199.1	211.1	335.0	583.8	931.0	429.0	469.9	459.9	326.2	212.3	161.4
87.5°	94.0	101.7	161.4	270.8	364.8	168.1	238.8	263.2	204.5	129.4	84.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9	3474.9
2.5°	3472.6	3492.5	3515.7	3528.0	3539.0	3552.2	3565.6	3565.6	3567.7	3568.7
5°	3448.4	3489.1	3525.7	3541.2	3544.5	3544.5	3541.2	3523.5	3508.1	3514.6
7.5°	3397.4	3457.1	3488.1	3482.5	3440.6	3391.9	3350.9	3301.2	3275.8	3271.4
10°	3324.4	3393.0	3398.6	3343.2	3239.4	3135.4	3049.1	2965.1	2925.4	2915.4
12.5°	3243.8	3306.8	3271.4	3157.5	2990.5	2839.2	2729.7	2644.5	2606.9	2597.0
15°	3178.6	3221.6	3132.1	2953.0	2743.0	2582.6	2492.0	2428.9	2402.3	2394.7
17.5°	3144.2	3153.1	2989.5	2747.3	2524.1	2390.3	2333.8	2304.1	2294.1	2288.5
20°	3160.9	3099.0	2853.5	2556.0	2344.9	2251.0	2237.7	2230.0	2227.7	2224.5
22.5°	3243.8	3082.4	2728.5	2374.8	2187.9	2146.9	2158.1	2157.0	2154.8	2152.6
25°	3391.9	3096.6	2606.9	2202.4	2056.4	2047.5	2067.4	2067.4	2058.6	2058.6
27.5°	3587.7	3126.6	2471.0	2038.7	1936.9	1938.1	1953.5	1949.1	1939.3	1932.6
30°	3826.4	3145.3	2311.8	1891.7	1825.3	1820.9	1825.3	1806.5	1776.7	1774.4
32.5°	4070.7	3122.1	2127.1	1761.1	1707.0	1697.1	1693.8	1667.3	1632.8	1623.0
35°	4291.8	3037.0	1939.3	1657.3	1594.2	1572.2	1587.7	1578.9	1547.8	1540.1
37.5°	4453.3	2878.9	1770.0	1565.4	1513.6	1508.1	1518.0	1521.3	1484.8	1477.1
40°	4561.7	2664.5	1625.3	1488.1	1498.1	1477.1	1443.8	1420.7	1409.6	1406.2
42.5°	4649.0	2441.1	1503.7	1451.7	1501.3	1440.5	1368.7	1331.1	1351.1	1359.9
45°	4749.6	2223.3	1401.8	1406.2	1484.8	1398.5	1316.7	1280.3	1288.0	1290.2
47.5°	4887.8	1957.9	1292.4	1333.4	1429.6	1369.8	1284.7	1232.7	1196.3	1179.7
50°	5078.9	1644.0	1178.5	1251.5	1375.3	1348.8	1234.9	1179.7	1112.2	1096.7
52.5°	5211.6	1351.1	1084.6	1183.0	1326.6	1306.8	1195.1	1123.3	1052.5	1039.2
55°	5139.8	1122.2	1002.8	1106.7	1262.6	1254.8	1162.0	1065.7	1010.6	999.5
57.5°	4780.5	977.4	939.7	1034.8	1184.1	1210.6	1117.8	1017.2	977.4	969.6
60°	4095.1	886.6	899.9	986.2	1119.9	1166.4	1073.6	990.7	964.2	958.5
62.5°	3177.5	825.8	870.1	950.8	1070.2	1135.5	1049.2	987.2	977.4	970.7
65°	2276.3	777.3	837.9	915.5	1024.8	1106.7	1040.3	982.8	985.1	979.5
67.5°	1546.7	734.2	799.3	875.6	980.6	1081.3	1028.2	967.4	995.1	988.3
70°	1082.4	692.1	753.9	824.7	925.3	1045.8	1006.1	944.2	942.0	915.5
72.5°	844.6	636.8	692.1	753.9	854.6	996.1	961.8	892.1	855.7	828.1
73°	806.0	623.6	676.7	738.5	839.1	984.0	949.7	877.9	837.0	811.4
75°	666.6	566.0	614.7	670.0	772.8	926.5	890.0	812.5	760.7	745.1
77.5°	524.0	484.2	530.7	580.5	681.0	842.4	801.6	727.4	698.7	685.4
80°	388.1	401.4	442.2	486.4	590.4	752.9	716.4	642.4	770.6	738.5
82.5°	273.1	304.0	341.6	381.4	495.2	665.6	621.4	545.0	563.9	468.7
85°	161.4	199.1	234.4	268.7	357.0	551.6	513.0	434.5	356.0	339.4
87.5°	94.0	110.5	120.6	155.9	245.4	415.6	361.5	321.8	184.6	125.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)