

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: P193263

Luminaire Tested: **GAN-AF-05-LED-U-T4FT-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193263
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-05-LED-U-T4FT-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 23386.9 lumens
Efficiency: N/A
Efficacy: 111.4 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 - G4

Input Watts (W): 210
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

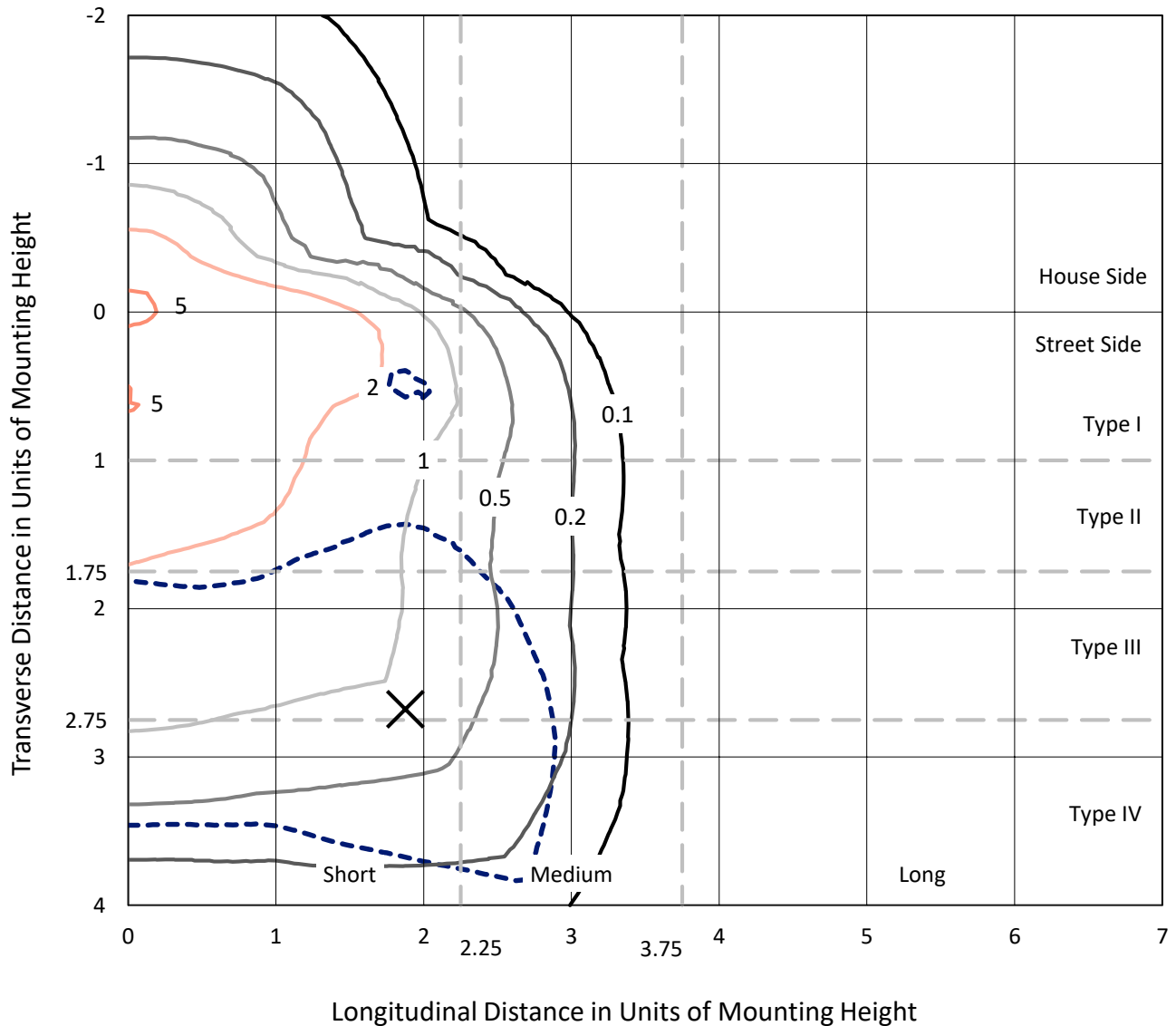


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

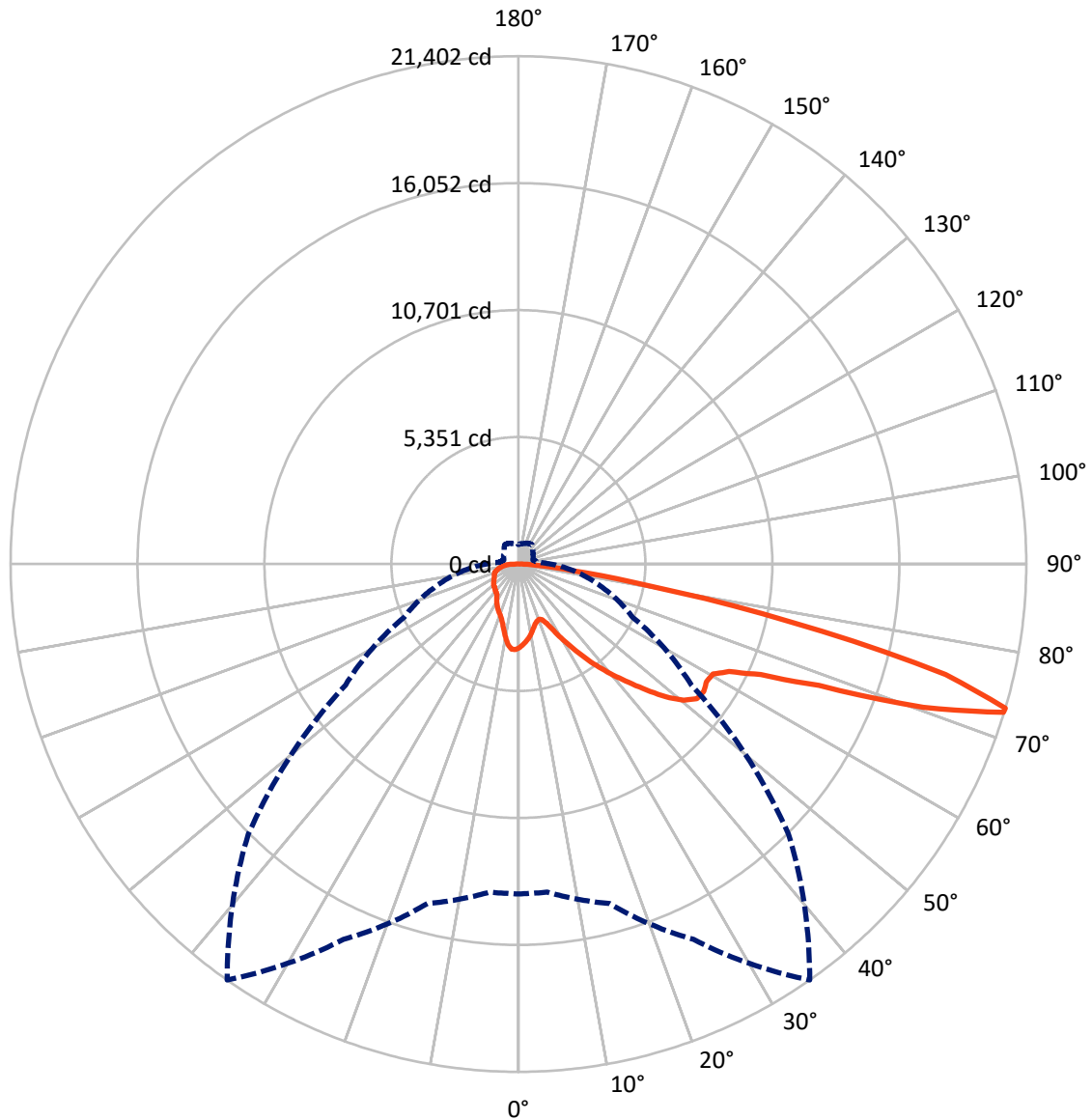


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Non-Cutoff

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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	4460.5	0.0	4460.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	18926.4	0.0	18926.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	23386.9	0.0	23386.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.6	1.4
10°-20°	797.5	3.4
20°-30°	1289.4	5.5
30°-40°	2162.1	9.2
40°-50°	3332.7	14.3
50°-60°	4471.2	19.1
60°-70°	5956.5	25.5
70°-80°	4543.0	19.4
80°-90°	514.9	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°	23386.9	100.0
0°-180°	23386.9	100.0



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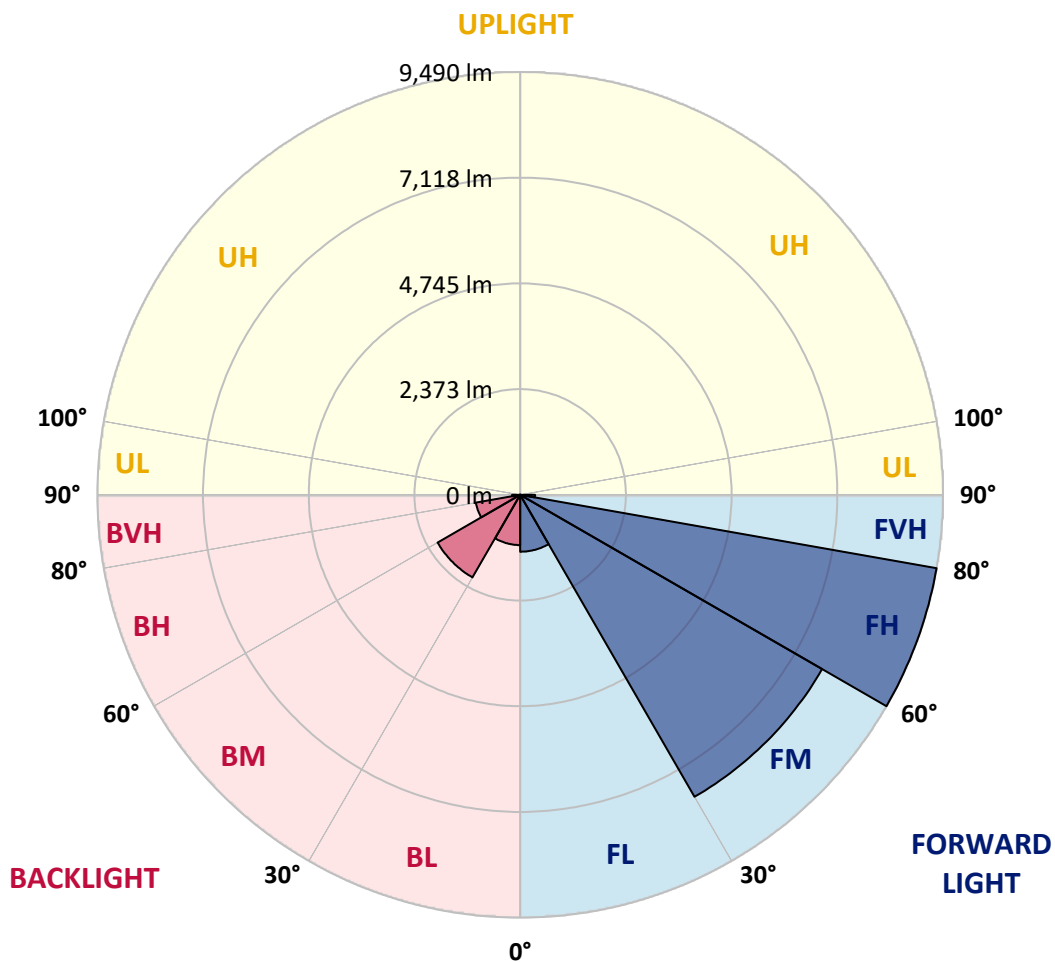
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1277.7	5.5			
FM	(30°-60°)	7825.4	33.5			
FH	(60°-80°)	9490.4	40.6			G4/12000
FVH	(80°-90°)	332.9	1.4			G3/500
BL	(0°-30°)	1128.7	4.8	B3/2500		
BM	(30°-60°)	2140.6	9.2	B2/2500		
BH	(60°-80°)	1009.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	182.1	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°	3529.8	3529.8	3529.8	3529.8	3529.8	3529.8	3529.8	3529.8	3529.8	3529.8	3529.8
2.5°	3390.6	3397.3	3389.4	3399.5	3416.4	3434.3	3446.7	3464.7	3485.0	3513.0	3519.7
5°	3231.2	3241.1	3241.1	3259.2	3291.8	3320.9	3347.9	3377.1	3419.7	3468.0	3487.1
7.5°	3055.9	3061.5	3071.6	3098.6	3145.7	3187.3	3225.5	3272.7	3331.0	3395.0	3428.8
10°	2844.8	2852.6	2868.3	2906.6	2970.5	3027.8	3082.9	3148.0	3222.0	3301.9	3344.5
12.5°	2695.4	2693.1	2699.9	2727.9	2784.2	2853.8	2933.5	3016.5	3107.6	3200.7	3252.4
15°	2644.8	2632.5	2606.6	2600.0	2630.2	2699.9	2792.0	2894.2	3003.1	3115.4	3179.5
17.5°	2676.3	2654.9	2584.2	2532.5	2528.0	2580.8	2678.5	2793.1	2918.9	3055.9	3135.6
20°	2873.9	2823.4	2649.3	2529.2	2487.7	2513.4	2598.8	2720.1	2868.3	3050.3	3152.4
22.5°	3346.7	3272.7	2903.1	2679.7	2539.3	2507.8	2571.9	2701.0	2873.9	3119.9	3250.1
25°	4035.2	3929.6	3338.9	3054.8	2765.1	2597.6	2612.3	2744.8	2953.8	3281.6	3438.8
27.5°	4578.7	4510.2	3908.3	3583.7	3176.0	2840.3	2743.7	2854.8	3116.5	3546.7	3707.2
30°	4902.3	4860.6	4517.0	4183.4	3700.5	3226.5	2995.3	3061.5	3371.4	3913.8	4046.4
32.5°	5277.3	5252.6	5084.2	4777.6	4266.6	3734.3	3393.9	3370.3	3712.8	4355.3	4415.9
35°	5665.8	5658.0	5559.2	5339.1	4874.2	4403.5	3922.9	3763.4	4084.6	4813.5	4775.2
37.5°	6027.5	6014.0	5956.9	5828.8	5509.8	5122.3	4461.9	4166.6	4485.5	5251.4	5081.8
40°	6693.6	6587.9	6391.4	6294.9	6152.2	5727.7	4889.9	4542.8	4901.1	5669.3	5346.9
42.5°	7505.4	7333.7	6967.6	6835.0	6814.8	6205.0	5181.8	4907.8	5320.0	6083.7	5607.5
45°	8144.5	7982.8	7667.3	7499.9	7574.0	6637.4	5475.0	5297.6	5751.3	6518.3	5876.0
47.5°	8826.2	8572.4	8154.7	8205.2	8366.8	7046.1	5773.7	5716.5	6224.1	7004.6	6209.4
50°	8851.0	8656.6	8473.6	8775.7	9027.2	7422.4	6147.7	6155.5	6802.5	7616.7	6653.2
52.5°	8337.7	8296.2	8587.0	9062.1	9424.8	7720.0	6573.4	6609.3	7542.6	8319.8	7140.5
55°	8158.0	8110.9	8446.7	8962.1	9478.7	7966.0	7034.8	7100.1	8437.6	9061.0	7615.6
57.5°	8596.0	8491.5	8514.0	8914.9	9347.3	8235.5	7538.1	7669.5	9410.2	9709.0	7921.1
60°	9820.1	9596.7	9172.1	9162.1	9418.0	8639.7	8119.8	8280.4	10421.0	10019.0	7801.9
62.5°	11537.3	11313.8	10518.7	10000.9	9962.8	9306.9	8834.0	8876.8	11005.0	9598.9	7075.3
65°	13396.1	13196.2	12307.7	11576.7	11223.9	10412.0	9664.1	9143.0	10814.1	8443.2	5804.1
67.5°	15652.3	15437.8	14674.1	13999.1	13659.9	12195.4	10246.9	8888.0	9602.2	6540.8	4172.2
70°	17230.1	17011.2	16710.2	17257.2	18087.1	14768.3	10322.2	7851.4	7171.9	4347.4	2511.3
72.5°	15171.6	15069.4	15618.6	17922.1	21378.8	16329.5	9330.5	5716.5	4165.5	2307.9	1453.2
73°	13900.3	13877.8	14814.5	17456.0	21402.4	16089.1	8895.9	5313.3	3572.4	2041.7	1328.6
75°	6276.8	6457.7	8510.6	13333.1	18594.8	13257.8	6261.1	3048.0	2018.1	1410.5	1002.9
77.5°	1508.4	1571.1	2662.7	6331.9	11742.8	7900.9	2836.9	1507.1	1290.5	996.1	732.2
80°	642.5	663.8	1025.4	2339.3	5528.8	3181.6	1307.3	1009.7	892.8	695.2	513.2
82.5°	357.2	379.5	581.8	1061.4	2231.5	1084.8	797.4	703.1	587.4	418.9	333.6
85°	202.1	214.4	340.4	592.9	945.6	435.7	477.4	467.2	331.3	215.7	164.0
87.5°	95.5	103.4	164.0	275.2	370.6	170.7	242.5	267.2	207.8	131.4	85.3
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°	3529.8	3529.8	3529.8	3529.8	3529.8	3529.8	3529.8	3529.8	3529.8	3529.8
2.5°	3527.6	3547.7	3571.3	3583.7	3594.9	3608.4	3622.0	3622.0	3624.1	3625.3
5°	3502.9	3544.4	3581.5	3597.3	3600.5	3600.5	3597.3	3579.3	3563.5	3570.3
7.5°	3451.2	3511.8	3543.3	3537.7	3494.9	3445.6	3404.1	3353.5	3327.7	3323.1
10°	3377.1	3446.7	3452.4	3396.3	3290.6	3185.0	3097.4	3012.1	2971.7	2961.6
12.5°	3295.0	3359.0	3323.1	3207.6	3038.0	2884.0	2772.9	2686.3	2648.2	2638.1
15°	3228.8	3272.7	3181.6	2999.7	2786.3	2623.6	2531.4	2467.4	2440.5	2432.5
17.5°	3193.9	3203.1	3036.8	2790.8	2564.0	2428.1	2370.8	2340.5	2330.4	2324.7
20°	3210.9	3148.0	2898.6	2596.5	2382.1	2286.6	2273.1	2265.3	2263.0	2259.6
22.5°	3295.0	3131.2	2771.7	2412.3	2222.6	2181.1	2192.3	2191.0	2188.9	2186.6
25°	3445.6	3145.7	2648.2	2237.2	2088.9	2080.0	2100.2	2100.2	2091.1	2091.1
27.5°	3644.4	3176.0	2510.0	2070.9	1967.6	1968.8	1984.4	1980.0	1969.8	1963.2
30°	3887.0	3195.2	2348.3	1921.6	1854.2	1849.6	1854.2	1835.1	1804.8	1802.6
32.5°	4135.1	3171.6	2160.8	1789.0	1734.1	1723.9	1720.5	1693.6	1658.8	1648.7
35°	4359.8	3085.1	1969.8	1683.4	1619.4	1597.1	1612.7	1603.7	1572.4	1564.5
37.5°	4523.8	2924.5	1798.1	1590.3	1537.5	1532.0	1541.9	1545.4	1508.4	1500.4
40°	4633.8	2706.6	1650.9	1511.6	1521.8	1500.4	1466.7	1443.1	1432.0	1428.6
42.5°	4722.5	2479.7	1527.3	1474.6	1525.1	1463.3	1390.4	1352.2	1372.4	1381.4
45°	4824.7	2258.5	1424.0	1428.6	1508.4	1420.7	1337.6	1300.5	1308.4	1310.7
47.5°	4965.1	1988.9	1312.9	1354.4	1452.2	1391.5	1305.0	1252.2	1215.2	1198.3
50°	5159.4	1670.0	1197.2	1271.3	1397.1	1370.1	1254.6	1198.3	1129.8	1114.1
52.5°	5294.1	1372.4	1101.8	1201.7	1347.7	1327.5	1214.1	1141.0	1069.2	1055.7
55°	5221.2	1139.9	1018.7	1124.2	1282.6	1274.7	1180.3	1082.6	1026.5	1015.2
57.5°	4856.1	992.8	954.6	1051.2	1202.8	1229.7	1135.4	1033.3	992.8	985.0
60°	4159.8	900.8	914.2	1001.8	1137.7	1184.8	1090.5	1006.3	979.3	973.7
62.5°	3227.7	838.9	883.9	965.9	1087.1	1153.3	1065.9	1002.9	992.8	986.1
65°	2312.4	789.5	851.2	929.9	1041.1	1124.2	1056.9	998.4	1000.7	995.1
67.5°	1571.1	745.7	812.1	889.5	996.1	1098.4	1044.4	982.7	1010.7	1004.0
70°	1099.4	703.1	765.9	837.8	939.9	1062.4	1022.0	959.1	956.9	929.9
72.5°	858.0	647.0	703.1	765.9	868.2	1011.8	977.1	906.3	869.2	841.2
73°	818.7	633.3	687.4	750.2	852.4	999.5	964.8	891.8	850.1	824.4
75°	677.2	575.0	624.4	680.5	785.0	941.2	904.1	825.5	772.7	756.9
77.5°	532.3	491.8	539.0	589.6	691.8	855.8	814.2	739.0	709.7	696.3
80°	394.2	407.6	449.3	494.2	599.8	764.9	727.7	652.5	782.8	750.2
82.5°	277.4	308.8	347.0	387.5	503.1	676.1	631.2	553.7	572.7	476.2
85°	164.0	202.1	238.0	272.9	362.7	560.4	521.0	441.4	361.6	344.8
87.5°	95.5	112.3	122.4	158.3	249.3	422.3	367.2	326.8	187.6	127.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)