

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: P266937

Luminaire Tested: **GAN-AF-05-LED-U-T2-7027-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7027-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16711.7 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 162
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

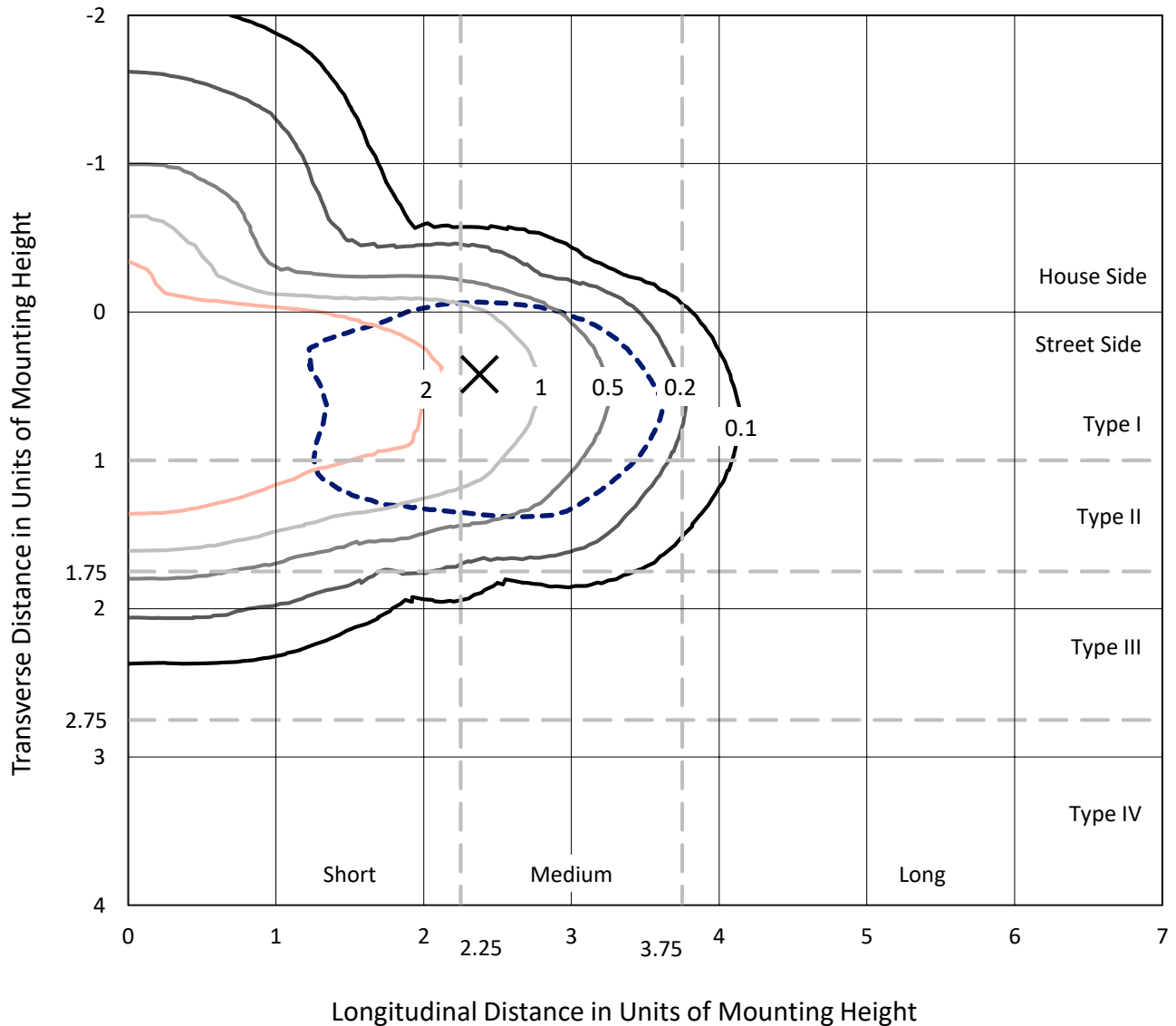


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

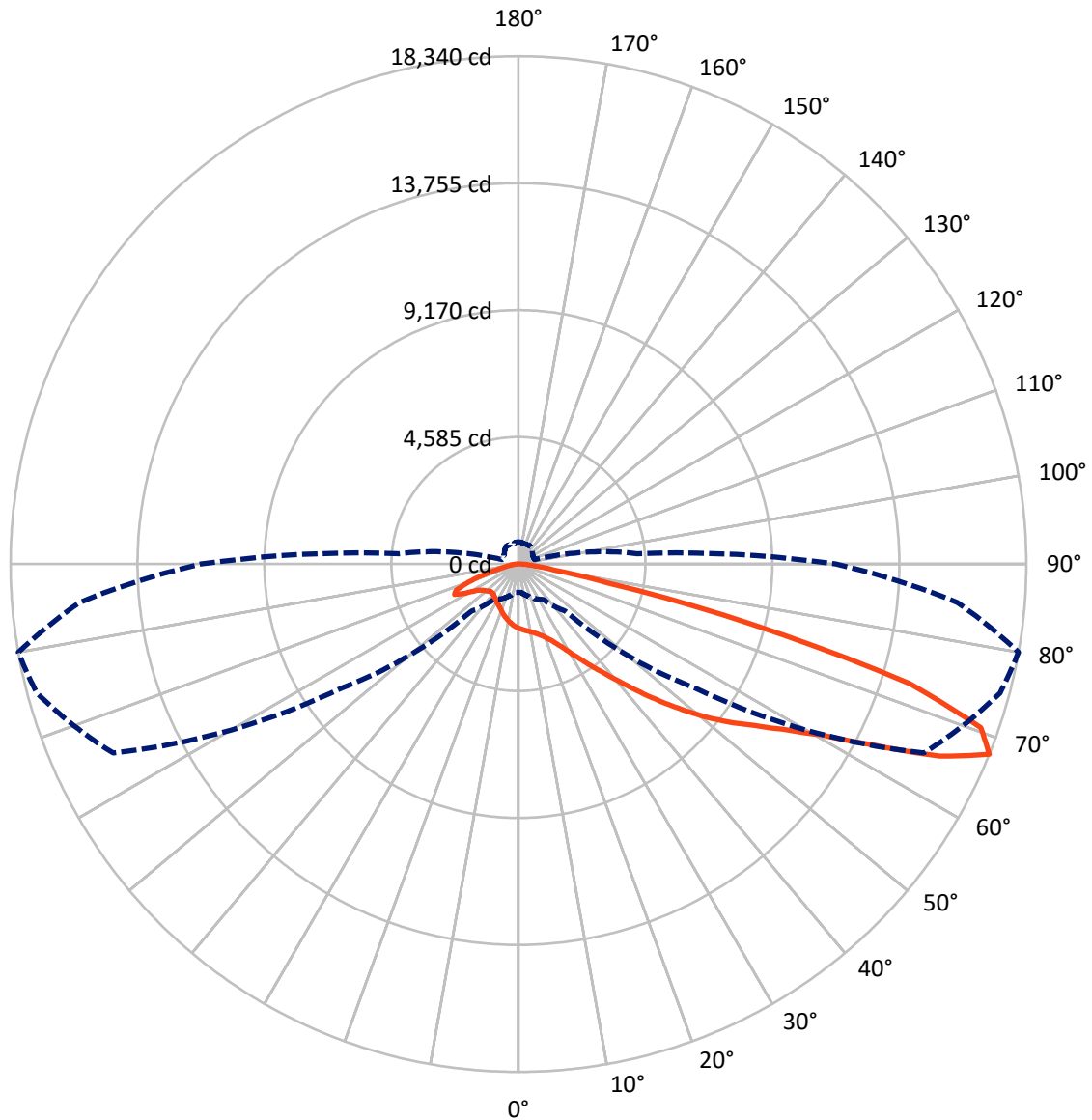


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3077.7	0.0	3077.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	13634.0	0.0	13634.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	16711.7	0.0	16711.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	1.3
10°-20°	617.0	3.7
20°-30°	1021.2	6.1
30°-40°	1670.4	10.0
40°-50°	2697.1	16.1
50°-60°	3893.8	23.3
60°-70°	4297.0	25.7
70°-80°	1980.7	11.9
80°-90°	320.4	1.9
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°	16711.7	100.0
0°-180°	16711.7	100.0



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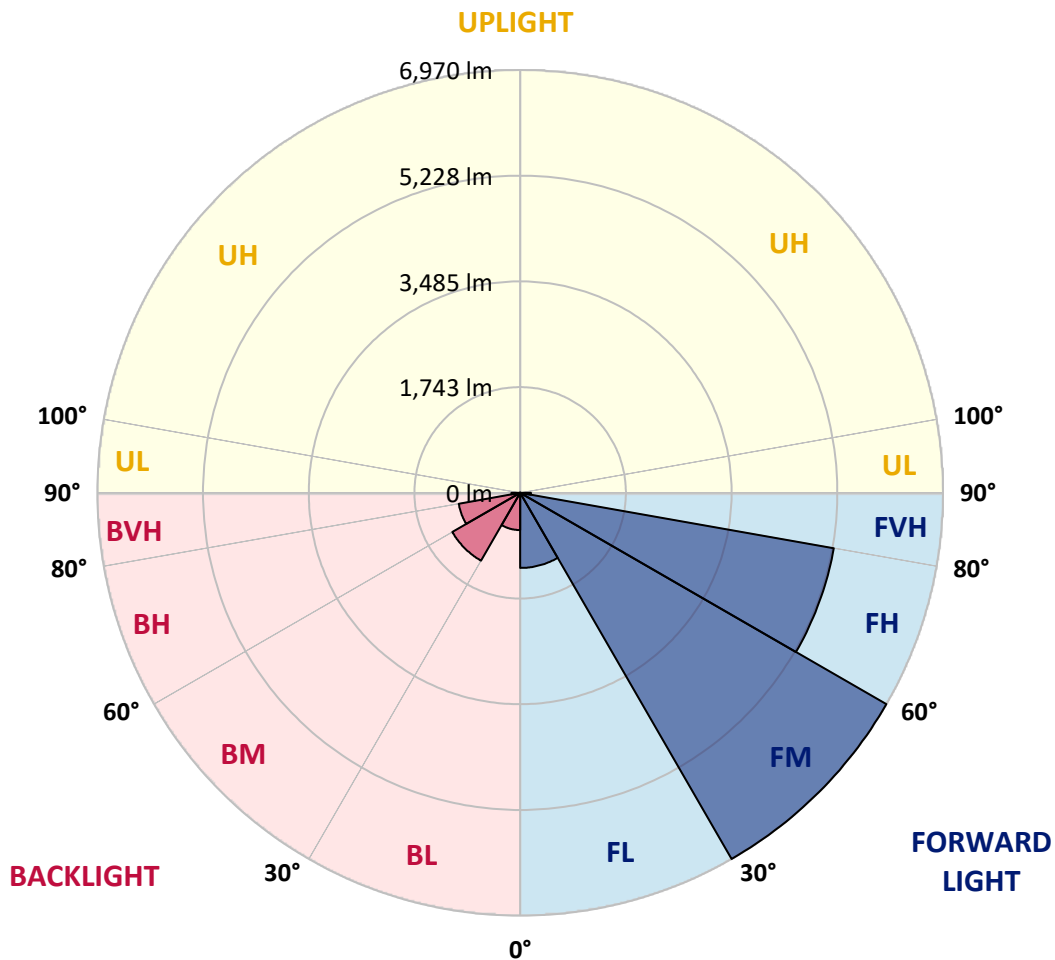
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1238.3	7.4			
FM (30°-60°)	6970.0	41.7			
FH (60°-80°)	5249.6	31.4			G3/7500
FVH (80°-90°)	176.1	1.1			G2/225
BL (0°-30°)	614.0	3.7	B2/1000		
BM (30°-60°)	1291.3	7.7	B2/2500		
BH (60°-80°)	1028.1	6.2	B3/2500		G3/2500
BVH (80°-90°)	144.2	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7
2.5°	2539.8	2525.0	2527.4	2523.2	2510.9	2489.6	2466.6	2424.5	2381.0	2358.0	2339.8
5°	2752.0	2747.9	2742.2	2729.1	2697.7	2653.4	2598.2	2524.1	2444.3	2402.3	2362.1
7.5°	2910.8	2908.4	2900.9	2892.7	2862.3	2808.8	2725.6	2620.4	2504.4	2446.9	2384.3
10°	2924.0	2928.0	2933.9	2956.1	2960.2	2931.3	2846.5	2719.1	2566.8	2492.8	2413.0
12.5°	2812.1	2821.1	2843.3	2900.1	2960.2	2995.6	2951.9	2822.7	2640.1	2550.5	2449.3
15°	2664.1	2669.0	2696.1	2774.2	2882.0	2991.4	3032.6	2937.2	2734.7	2624.5	2503.5
17.5°	2600.7	2603.1	2622.1	2673.8	2774.2	2930.6	3077.9	3061.3	2850.7	2716.7	2570.2
20°	2568.6	2574.4	2601.5	2652.4	2715.8	2852.4	3084.4	3195.5	2989.0	2831.8	2654.1
22.5°	2659.9	2657.5	2667.2	2692.8	2746.3	2828.6	3079.5	3333.7	3165.1	2979.9	2763.5
25°	2873.0	2882.0	2864.8	2835.9	2853.2	2910.8	3105.8	3483.4	3385.5	3169.9	2906.6
27.5°	3176.5	3167.6	3142.0	3074.4	3039.1	3063.8	3193.0	3644.8	3659.4	3420.0	3095.9
30°	3479.3	3471.9	3447.2	3365.0	3292.6	3271.9	3362.4	3829.8	3986.0	3720.4	3328.0
32.5°	3793.6	3785.4	3762.3	3680.0	3592.9	3545.2	3603.6	4043.7	4371.2	4079.2	3601.0
35°	4181.2	4165.5	4116.9	4002.6	3917.0	3880.0	3907.2	4312.8	4815.5	4503.7	3932.6
37.5°	4545.6	4569.4	4520.1	4362.1	4251.0	4237.8	4268.2	4641.1	5294.3	4978.3	4313.7
40°	4911.8	4915.9	4871.4	4742.2	4627.9	4606.5	4683.0	5039.2	5859.5	5546.0	4776.7
42.5°	5290.2	5298.4	5223.6	5104.2	5020.3	5024.4	5111.6	5505.7	6507.9	6215.0	5309.9
45°	5738.6	5750.9	5668.7	5512.3	5435.7	5589.7	5553.4	6029.0	7218.6	6975.1	5921.9
47.5°	6207.5	6226.4	6163.9	6017.4	5921.9	6133.4	5995.2	6609.0	7983.7	7790.5	6594.2
50°	6463.3	6490.6	6551.3	6540.6	6520.1	6484.8	6488.1	7230.9	8772.8	8639.4	7285.3
52.5°	6326.0	6325.1	6547.2	6817.1	7105.1	7126.4	7088.6	7886.7	9509.8	9469.7	7936.0
55°	5697.4	5740.2	6076.7	6599.0	7385.7	7876.8	7988.6	8637.8	10233.9	10280.8	8596.7
57.5°	4650.9	4686.3	5140.5	5868.4	7007.1	8322.7	9268.8	9729.6	11043.5	11262.3	9476.2
60°	3154.4	3197.1	3678.4	4553.0	5988.6	8074.2	10487.4	11677.7	12012.7	12510.4	10710.3
62.5°	1853.7	1892.3	2284.7	2872.2	4216.5	6920.0	11022.2	14449.5	13552.0	14393.6	12592.7
65°	1276.0	1302.5	1493.3	1787.7	2423.0	4660.8	10359.0	16363.3	15920.7	16726.9	14775.4
67.5°	1026.8	1023.4	1174.9	1375.7	1559.8	2403.1	7833.2	16146.9	18003.8	18340.2	15908.3
70°	845.8	842.5	945.3	1111.6	1246.5	1353.3	4266.7	13626.0	17579.2	17715.8	14865.1
72.5°	707.5	710.7	776.7	900.0	1022.6	1019.3	1875.0	9585.6	13829.2	14773.7	11849.7
75°	597.4	598.9	642.6	729.8	830.2	821.1	1016.9	5193.0	8038.9	8696.2	6568.6
77.5°	508.4	510.1	538.1	586.7	658.2	654.9	742.1	2243.5	3353.5	3312.3	2246.9
80°	453.4	453.4	466.5	475.6	515.0	500.3	550.4	1077.7	1417.5	1309.0	896.8
82.5°	355.4	357.0	437.7	434.4	405.7	386.7	386.7	635.1	751.2	694.4	524.9
85°	200.0	199.2	282.2	340.5	357.0	272.4	269.9	355.4	408.9	360.4	254.2
87.5°	85.6	87.2	130.9	151.4	202.4	169.5	167.1	183.4	208.1	180.2	117.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7	2321.7
2.5°	2322.6	2301.2	2254.2	2195.8	2143.1	2108.6	2077.4	2032.1	2034.7	2003.3	1980.4
5°	2321.0	2276.5	2167.9	2038.8	1914.5	1824.7	1757.4	1696.4	1681.6	1652.8	1635.5
7.5°	2322.6	2250.2	2067.4	1861.0	1707.1	1593.7	1536.0	1503.9	1496.5	1486.7	1487.6
10°	2328.3	2226.3	1957.2	1694.8	1533.5	1458.7	1444.7	1454.5	1466.2	1469.4	1470.3
12.5°	2341.5	2204.9	1836.3	1546.7	1425.0	1402.0	1425.8	1459.6	1481.8	1492.4	1491.5
15°	2371.0	2188.5	1720.3	1430.7	1365.0	1377.2	1421.7	1469.4	1501.4	1516.2	1517.1
17.5°	2403.1	2164.6	1601.0	1341.9	1320.5	1351.7	1406.8	1462.8	1502.2	1518.8	1522.1
20°	2445.1	2135.0	1475.9	1275.2	1278.5	1314.0	1365.8	1421.7	1465.2	1479.2	1485.8
22.5°	2500.3	2102.9	1366.5	1220.9	1230.8	1257.9	1298.3	1346.7	1384.6	1391.2	1397.0
25°	2574.4	2068.3	1279.4	1171.6	1175.7	1191.3	1218.6	1247.2	1273.5	1266.3	1271.9
27.5°	2673.8	2038.8	1214.4	1126.4	1118.8	1122.3	1136.1	1145.2	1159.3	1138.6	1141.1
30°	2790.7	2006.6	1164.2	1086.8	1066.3	1060.4	1063.9	1068.8	1079.5	1051.5	1047.3
32.5°	2926.5	1967.9	1117.2	1052.3	1023.4	1011.9	1013.6	1026.8	1067.9	1050.6	1041.6
35°	3084.4	1924.3	1067.9	1014.5	994.7	978.3	976.5	1017.7	1140.3	1129.6	1121.4
37.5°	3269.6	1880.7	1018.6	971.6	973.4	955.2	949.4	996.3	1154.3	1112.3	1106.5
40°	3504.8	1857.8	976.5	926.4	947.0	944.5	933.0	956.9	1062.2	985.6	975.7
42.5°	3796.1	1861.0	945.3	877.9	915.7	942.1	923.9	924.7	962.7	905.0	896.0
45°	4155.6	1899.6	923.1	839.1	880.2	939.5	920.7	907.5	910.7	880.2	875.4
47.5°	4575.2	1979.4	907.5	807.0	846.7	930.6	919.9	902.5	895.2	878.7	874.6
50°	5041.6	2095.4	896.0	776.7	816.1	915.7	920.7	897.5	889.3	882.8	880.2
52.5°	5500.0	2227.9	878.7	750.4	792.2	897.5	923.1	892.6	883.7	878.7	876.1
55°	6010.9	2393.4	852.3	728.2	772.5	874.6	923.1	885.3	875.4	876.1	875.4
57.5°	6701.1	2660.7	821.1	709.2	748.6	846.7	907.5	877.0	864.7	865.4	866.3
60°	7779.7	3132.1	783.2	690.3	719.1	813.7	886.1	858.9	846.7	849.8	850.8
62.5°	9366.0	3824.1	733.8	662.3	687.8	778.3	856.4	836.0	823.6	831.8	831.8
65°	11014.7	4434.6	673.0	626.8	654.9	739.7	819.4	807.0	794.8	813.7	812.8
67.5°	11458.2	4297.9	612.1	588.2	621.9	696.8	775.0	768.4	761.9	794.8	793.2
70°	10178.8	3450.5	556.2	548.8	585.8	650.8	727.3	727.3	723.1	747.8	742.1
72.5°	7755.1	2446.9	502.7	506.9	544.6	600.5	675.4	681.3	674.6	686.9	682.1
75°	4151.4	1400.3	449.2	460.7	493.7	549.7	617.9	623.7	619.6	618.8	621.2
77.5°	1379.6	684.5	393.3	411.3	440.2	496.9	557.8	566.9	556.9	555.3	554.6
80°	614.6	430.3	331.6	355.4	380.9	436.8	494.4	501.9	491.2	505.9	487.1
82.5°	395.0	283.1	265.8	292.0	316.7	376.7	431.0	432.8	422.9	491.2	418.8
85°	191.7	175.2	200.0	223.8	245.1	296.3	357.0	357.9	333.2	303.5	292.8
87.5°	95.4	102.0	133.3	154.7	165.4	203.1	260.0	255.1	244.3	222.2	204.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)