

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: P317696

Luminaire Tested: **GAN-SA2D-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13574 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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: 24 FT

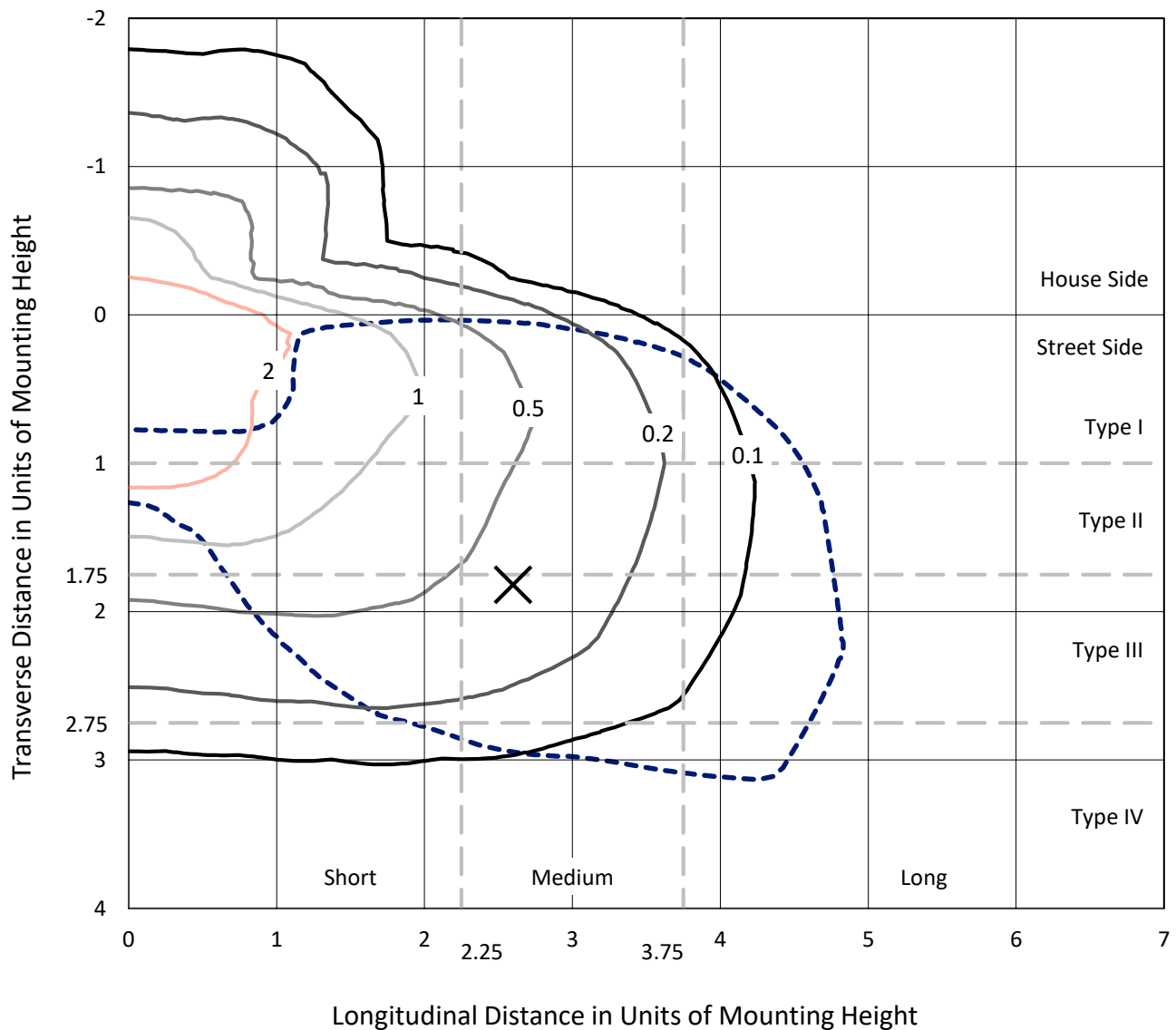


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Iso-Footcandle Lines of Horizontal Illumination

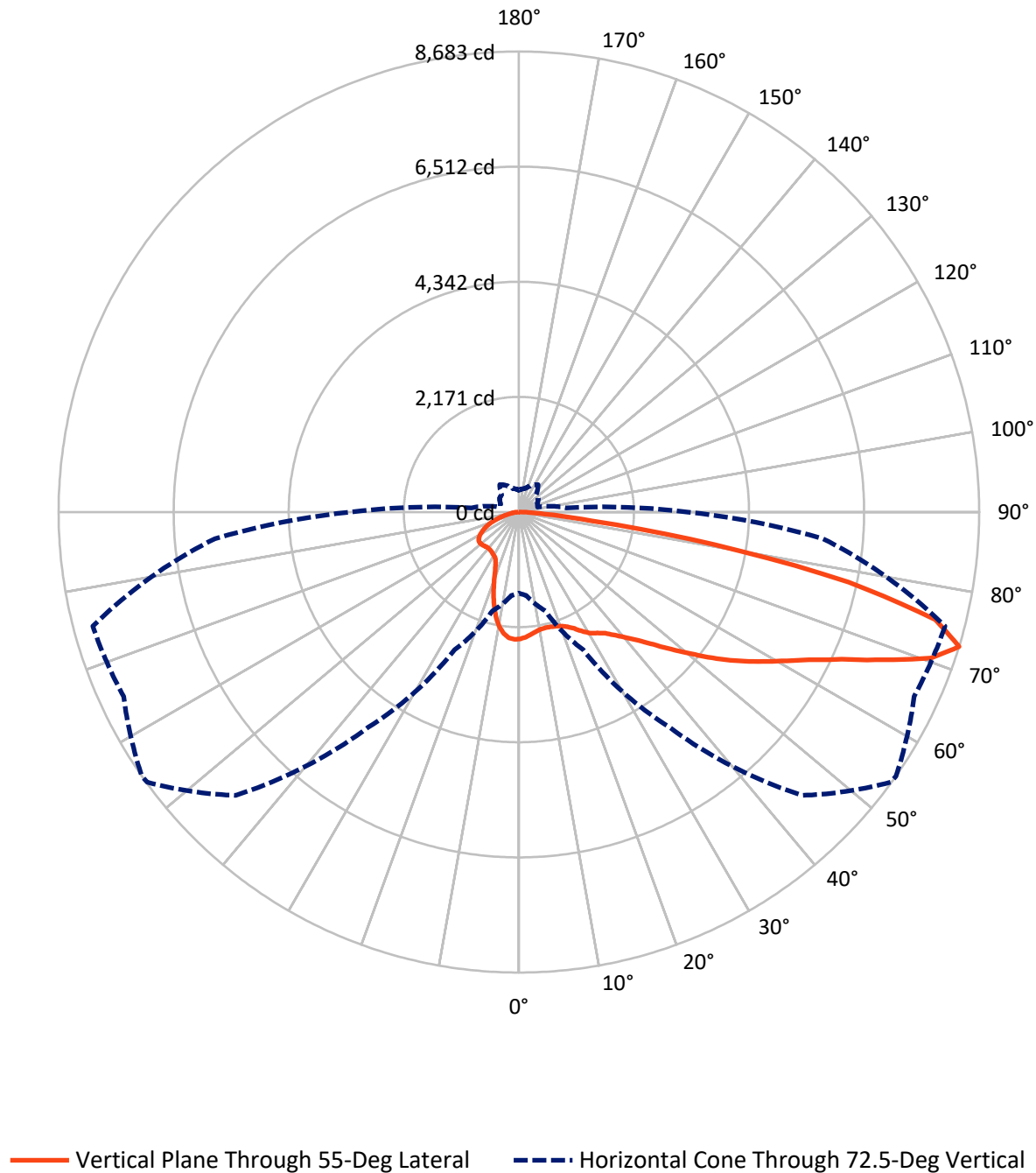
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2523.0	0.0	2523.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11051.0	0.0	11051.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	13574.0	0.0	13574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.6	1.6
10°-20°	576.8	4.2
20°-30°	951.0	7.0
30°-40°	1406.7	10.4
40°-50°	1963.5	14.5
50°-60°	2556.5	18.8
60°-70°	3141.9	23.1
70°-80°	2462.9	18.1
80°-90°	298.0	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°	13574.0	100.0
0°-180°	13574.0	100.0

Coefficient of Utilization



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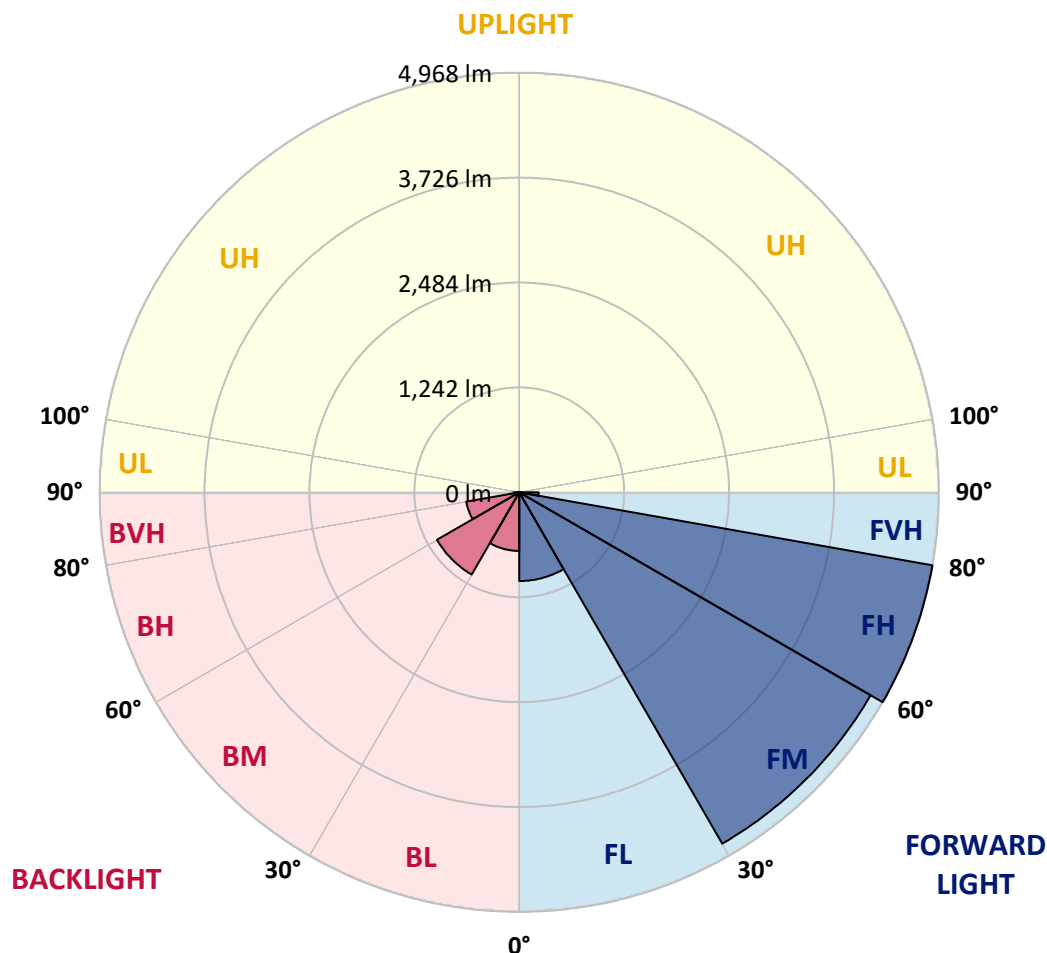
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1050.2	7.7			
FM	(30°-60°)	4802.7	35.4			
FH	(60°-80°)	4967.6	36.6			G2/5000
FVH	(80°-90°)	230.4	1.7			G3/500
BL	(0°-30°)	694.2	5.1	B2/1000		
BM	(30°-60°)	1124.0	8.3	B2/2500		
BH	(60°-80°)	637.2	4.7	B2/1000		G2/1000
BVH	(80°-90°)	67.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2
2.5°	2316.2	2310.7	2317.6	2327.2	2337.8	2352.0	2360.2	2363.9	2378.1	2383.6	2395.5
5°	2208.9	2206.2	2217.6	2234.2	2257.5	2290.5	2317.1	2322.2	2359.8	2386.4	2410.7
7.5°	2131.0	2131.0	2144.3	2164.0	2190.1	2234.6	2272.2	2279.1	2342.8	2400.1	2445.1
10°	2069.1	2071.4	2087.0	2110.4	2141.1	2188.3	2238.3	2246.1	2338.2	2432.2	2503.7
12.5°	2027.8	2033.3	2047.6	2068.6	2106.7	2164.0	2227.3	2237.8	2347.9	2478.1	2574.3
15°	2054.0	2063.1	2064.5	2073.2	2094.3	2156.7	2233.7	2244.7	2368.5	2524.8	2654.6
17.5°	2168.6	2171.8	2157.6	2139.2	2129.2	2169.0	2253.0	2264.4	2393.2	2571.1	2731.6
20°	2342.8	2341.0	2310.3	2260.7	2209.4	2215.8	2284.6	2296.5	2426.7	2611.9	2808.6
22.5°	2562.9	2556.5	2509.2	2418.0	2330.4	2293.8	2340.1	2350.1	2477.1	2670.2	2891.1
25°	2829.7	2815.5	2753.1	2630.7	2501.9	2407.5	2423.5	2433.1	2550.5	2735.3	2966.8
27.5°	3111.2	3097.0	3017.7	2869.6	2698.1	2551.0	2538.6	2546.8	2633.9	2783.4	3022.7
30°	3405.6	3390.4	3318.0	3152.0	2906.3	2699.5	2645.9	2649.1	2692.6	2809.5	3068.6
32.5°	3701.3	3687.1	3605.9	3413.4	3132.3	2859.1	2723.3	2719.2	2727.9	2836.6	3120.4
35°	4001.1	4006.6	3911.7	3698.5	3382.6	3036.5	2815.0	2806.3	2787.1	2892.1	3193.7
37.5°	4322.1	4318.4	4195.5	3972.7	3644.4	3229.0	2946.6	2945.2	2878.8	2997.1	3308.8
40°	4536.6	4538.9	4464.2	4253.3	3909.0	3442.2	3115.3	3112.1	3025.0	3154.3	3459.7
42.5°	4620.5	4635.7	4654.9	4521.0	4185.9	3689.4	3316.6	3312.0	3229.0	3379.9	3637.1
45°	4626.5	4656.7	4775.9	4759.0	4466.5	3972.2	3573.8	3561.0	3501.4	3679.7	3848.9
47.5°	4575.1	4606.3	4804.4	4900.6	4717.3	4270.7	3874.6	3864.5	3813.1	4054.8	4078.1
50°	4462.8	4492.6	4745.7	4969.9	4923.6	4557.7	4221.2	4194.6	4167.1	4488.0	4340.4
52.5°	4252.4	4309.7	4667.3	4986.4	5046.9	4812.6	4585.7	4568.3	4583.4	4945.1	4603.1
55°	3754.0	3818.2	4465.1	4972.6	5138.1	5026.7	4950.2	4949.2	5027.6	5424.7	4885.1
57.5°	3474.8	3520.2	4053.4	4949.2	5246.3	5239.5	5311.0	5319.7	5472.4	5946.9	5180.3
60°	3317.1	3364.8	3844.8	4862.6	5414.1	5514.5	5679.1	5696.6	5924.4	6525.0	5535.6
62.5°	3173.6	3225.8	3715.5	4686.1	5611.7	5907.9	6120.2	6135.8	6403.1	7119.2	5879.0
65°	2928.3	2987.4	3526.1	4570.1	5791.5	6421.0	6680.9	6691.5	6952.8	7741.8	6141.7
67.5°	2581.7	2635.8	3169.0	4313.8	5924.4	7044.0	7426.4	7432.4	7497.9	8181.5	6276.1
70°	2176.8	2197.5	2660.1	3784.7	5767.2	7626.7	8243.4	8244.8	7994.9	8463.0	6254.1
72.5°	1529.5	1578.1	1931.1	2865.0	4956.1	7555.7	8667.5	8683.1	8226.0	8320.9	5754.3
75°	938.0	989.4	1211.3	1736.2	3144.2	5942.3	8008.2	8116.4	7792.7	7419.1	4700.8
77.5°	627.2	646.5	790.4	1012.3	1424.5	3418.9	6156.9	6360.4	6473.7	5410.5	3006.2
80°	349.8	386.5	524.0	629.0	633.6	1358.5	3691.6	3739.3	3601.8	2154.4	927.5
82.5°	185.2	205.4	349.8	369.5	345.7	454.8	1375.9	1377.3	1150.8	577.7	275.5
85°	143.5	160.5	239.8	225.6	176.5	201.7	453.9	478.6	391.5	236.6	89.9
87.5°	71.5	88.9	162.8	143.0	69.2	57.8	162.3	173.3	154.5	92.6	32.6
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°	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2
2.5°	2400.1	2404.2	2409.3	2403.8	2402.0	2394.6	2382.2	2379.5	2373.1	2373.5	2377.2
5°	2421.2	2428.1	2425.3	2404.2	2379.0	2343.7	2307.1	2275.9	2255.2	2253.9	2252.5
7.5°	2461.6	2466.1	2444.6	2384.5	2313.9	2232.3	2155.3	2087.9	2047.1	2037.0	2034.7
10°	2524.8	2523.9	2464.8	2343.7	2203.0	2057.2	1933.4	1839.9	1785.3	1769.3	1765.1
12.5°	2595.4	2584.9	2471.6	2269.5	2046.2	1844.0	1687.2	1583.1	1526.3	1507.9	1503.3
15°	2668.3	2642.2	2454.7	2158.5	1853.6	1614.3	1449.7	1353.4	1322.7	1312.6	1310.8
17.5°	2736.2	2685.8	2406.1	2008.1	1634.0	1385.5	1257.1	1218.6	1226.0	1239.3	1239.7
20°	2802.7	2715.1	2328.1	1818.3	1402.5	1197.1	1153.5	1182.0	1216.8	1243.8	1247.5
22.5°	2868.2	2735.7	2227.7	1599.2	1195.2	1091.2	1121.9	1173.7	1213.6	1242.9	1248.0
25°	2923.2	2740.8	2089.3	1365.3	1051.3	1051.3	1106.8	1155.8	1195.2	1224.1	1229.2
27.5°	2943.4	2706.8	1894.0	1148.9	978.8	1032.9	1085.7	1126.5	1159.9	1190.7	1196.2
30°	2951.2	2644.0	1668.4	975.2	949.0	1013.2	1057.2	1092.1	1123.7	1152.6	1157.7
32.5°	2952.6	2568.4	1429.1	876.6	928.4	992.6	1021.9	1052.7	1086.6	1098.0	1099.9
35°	2961.3	2479.0	1176.9	826.2	909.2	973.3	996.7	1018.7	963.7	967.8	971.5
37.5°	2986.5	2390.5	966.0	797.7	896.8	963.3	991.2	911.5	868.4	858.3	856.9
40°	3033.7	2296.0	809.7	774.8	892.2	968.3	955.9	850.9	776.7	721.2	712.9
42.5°	3099.3	2194.3	709.7	759.7	895.4	992.6	906.9	792.7	669.4	633.6	629.0
45°	3173.1	2087.4	655.6	749.1	906.4	1011.4	896.8	715.2	619.4	592.4	590.1
47.5°	3244.6	1956.8	627.7	744.6	921.5	996.3	854.1	691.4	595.6	581.3	582.7
50°	3326.7	1838.9	610.7	739.5	934.8	986.6	806.0	679.0	586.4	603.8	622.2
52.5°	3395.9	1717.0	595.6	729.4	939.9	969.7	793.6	681.3	586.4	619.9	637.3
55°	3478.0	1624.8	578.1	708.3	930.2	921.5	784.9	695.0	593.3	572.2	574.0
57.5°	3583.9	1594.6	558.9	675.3	898.2	851.4	780.8	708.3	589.1	575.8	580.4
60°	3730.6	1626.7	551.1	632.2	848.2	796.4	781.2	701.5	560.3	537.3	537.8
62.5°	3870.5	1662.4	550.6	605.2	786.7	747.3	770.7	679.0	545.6	532.3	537.3
65°	3916.3	1626.2	528.6	574.9	717.5	688.6	751.4	655.2	534.6	514.4	513.5
67.5°	3854.9	1513.9	484.2	525.9	638.2	620.3	726.2	626.7	517.2	500.7	497.9
70°	3672.4	1263.1	429.1	461.2	547.9	543.3	686.3	593.7	493.8	479.6	467.6
72.5°	3181.4	900.0	361.7	383.7	446.1	460.8	631.3	550.6	460.8	430.1	411.7
75°	2612.9	666.2	297.1	301.7	338.8	378.7	555.7	500.2	421.8	369.5	355.3
77.5°	1600.1	407.6	236.6	238.4	243.0	302.1	457.6	443.8	372.3	308.1	298.0
80°	518.1	222.4	171.0	179.7	166.0	221.4	353.9	377.8	319.6	257.7	246.7
82.5°	197.1	129.7	115.5	121.5	115.1	148.5	258.1	302.6	261.8	211.8	172.4
85°	95.4	73.4	68.3	76.6	71.1	76.1	165.1	222.8	198.5	138.0	128.4
87.5°	33.9	32.6	26.1	35.3	30.3	27.1	50.4	112.3	131.1	94.9	84.8
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)