

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: P323107

Luminaire Tested: **GAN-SA3A-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9856 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

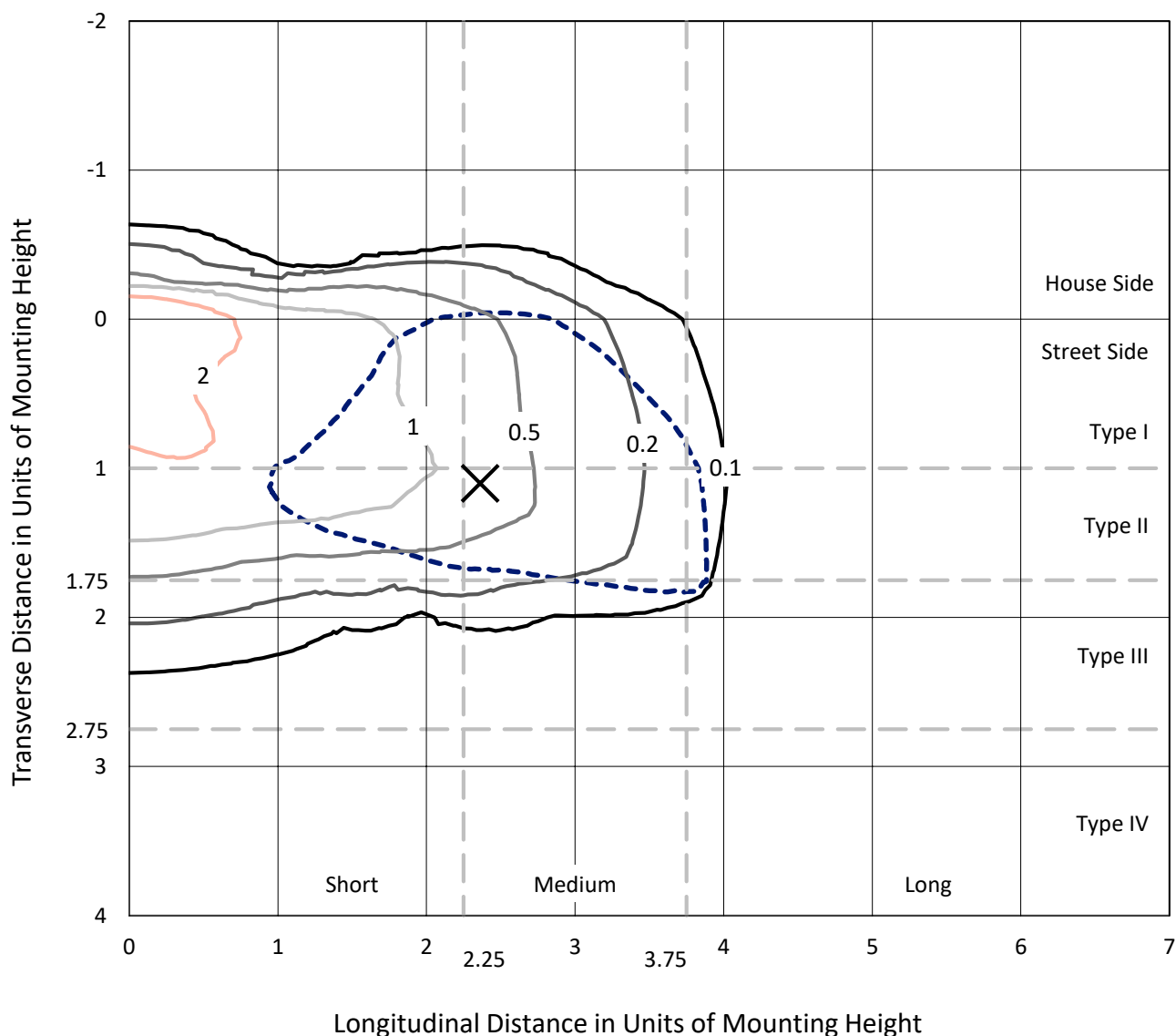
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

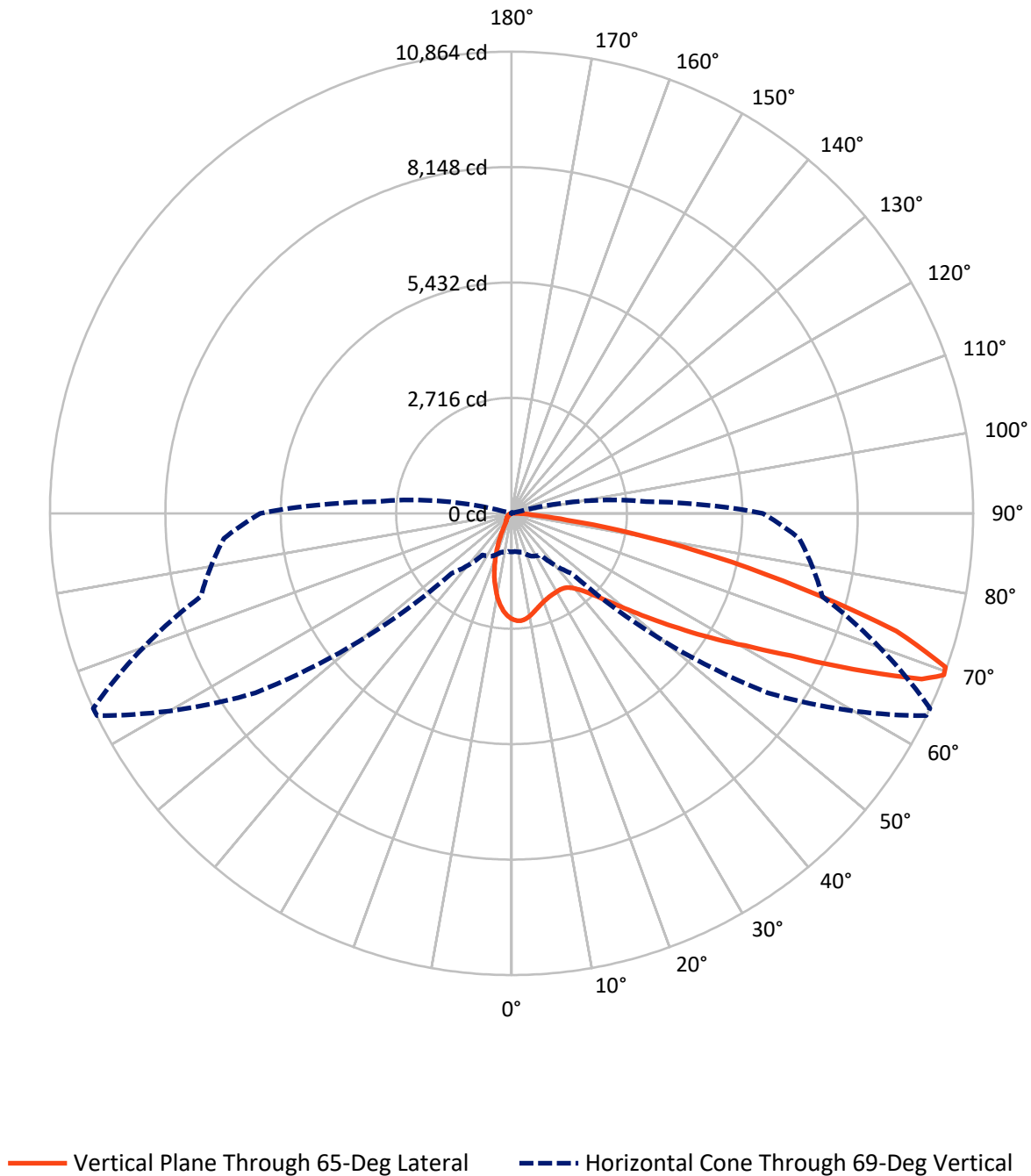
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1161.8	0.0	1161.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8694.2	0.0	8694.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	9856.0	0.0	9856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.3	2.1
10°-20°	455.9	4.6
20°-30°	631.4	6.4
30°-40°	880.4	8.9
40°-50°	1368.5	13.9
50°-60°	2197.0	22.3
60°-70°	2485.1	25.2
70°-80°	1459.5	14.8
80°-90°	169.8	1.7
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°	9856.0	100.0
0°-180°	9856.0	100.0

Coefficient of Utilization



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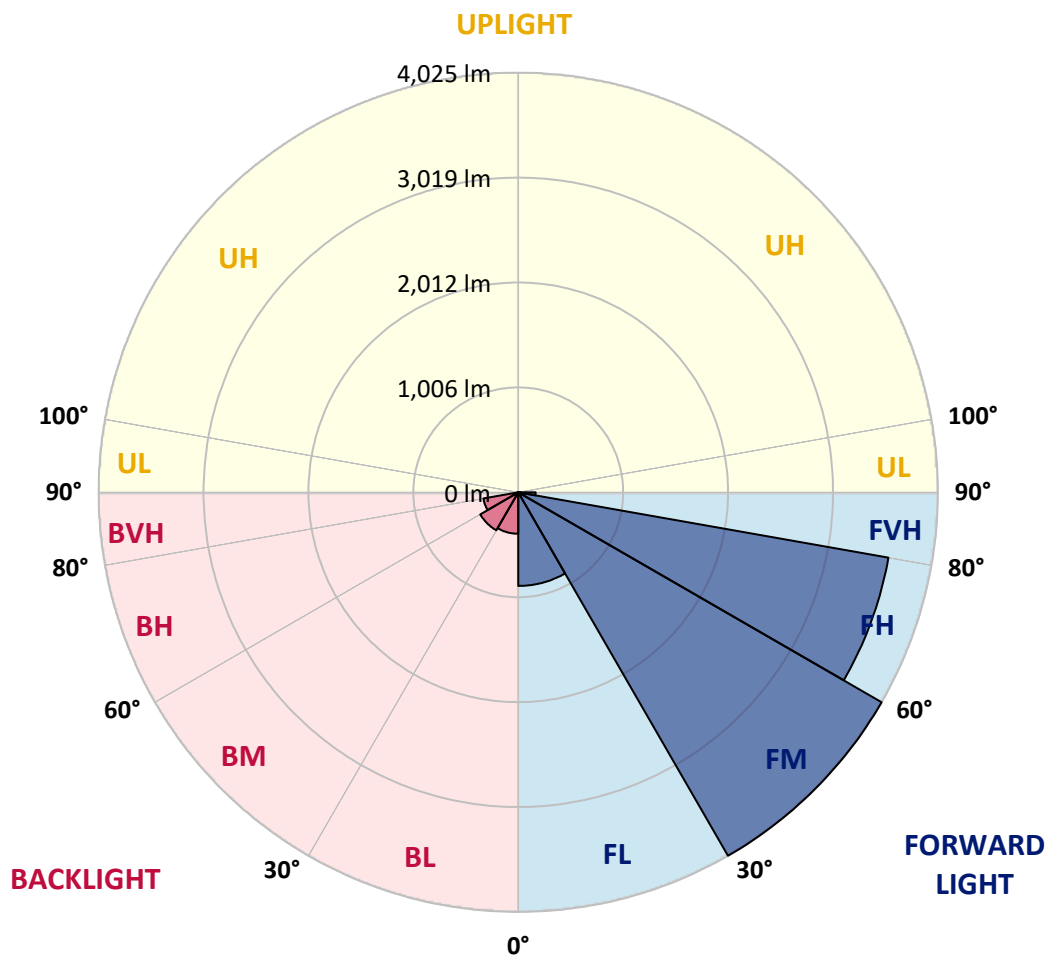
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	898.1	9.1			
FM	(30°-60°)	4024.9	40.8			
FH	(60°-80°)	3605.2	36.6			G2/5000
FVH	(80°-90°)	166.0	1.7			G2/225
BL	(0°-30°)	397.5	4.0	B1/500		
BM	(30°-60°)	421.0	4.3	B1/1000		
BH	(60°-80°)	339.4	3.4	B1/500		G1/500
BVH	(80°-90°)	3.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6
2.5°	2512.7	2506.5	2511.5	2522.3	2527.7	2527.7	2531.9	2526.9	2528.6	2516.5	2499.0
5°	2355.5	2345.9	2359.7	2390.1	2427.7	2459.8	2507.3	2532.3	2534.8	2535.3	2514.8
7.5°	2186.2	2177.4	2197.9	2233.7	2282.1	2341.7	2424.7	2497.3	2501.5	2540.7	2525.7
10°	2048.6	2042.3	2066.1	2104.4	2161.2	2227.9	2329.6	2430.6	2442.7	2529.4	2524.0
12.5°	1939.3	1934.3	1956.8	2001.0	2059.0	2132.8	2239.1	2356.3	2372.6	2504.0	2515.7
15°	1859.6	1858.8	1877.6	1920.1	1984.3	2053.1	2162.0	2287.5	2306.3	2476.4	2514.4
17.5°	1817.9	1819.2	1832.9	1869.2	1924.3	1992.7	2096.9	2229.6	2250.0	2451.8	2520.7
20°	1813.8	1815.0	1822.5	1842.9	1887.6	1948.0	2044.0	2180.8	2202.0	2433.5	2530.7
22.5°	1850.5	1849.6	1851.7	1849.6	1874.6	1920.5	2008.9	2143.2	2167.8	2421.4	2538.6
25°	1920.9	1919.7	1918.9	1903.4	1886.7	1911.3	1994.3	2122.0	2145.3	2412.6	2543.2
27.5°	2018.9	2018.1	2016.9	1991.4	1941.4	1925.9	1996.0	2114.0	2133.6	2405.6	2542.3
30°	2147.8	2153.7	2152.0	2116.5	2038.5	1970.6	2013.5	2109.9	2127.0	2391.8	2533.6
32.5°	2299.2	2310.9	2320.1	2282.1	2184.5	2059.0	2054.0	2114.4	2127.0	2381.4	2517.7
35°	2456.4	2471.4	2505.2	2491.9	2363.4	2192.0	2123.6	2142.0	2152.4	2387.2	2510.2
37.5°	2611.2	2629.1	2702.5	2741.3	2597.8	2368.0	2232.1	2210.0	2215.4	2422.6	2518.6
40°	2790.9	2818.0	2929.4	2991.9	2877.7	2603.6	2394.3	2326.7	2328.8	2500.6	2557.4
42.5°	3027.0	3054.9	3175.4	3273.4	3192.9	2901.4	2614.5	2505.2	2503.1	2646.6	2648.7
45°	3314.7	3343.9	3468.6	3577.5	3541.2	3254.2	2896.4	2765.9	2763.4	2876.8	2821.8
47.5°	3640.9	3669.6	3781.0	3893.2	3932.4	3666.3	3255.5	3121.6	3115.8	3196.7	3089.1
50°	3920.7	3939.5	4042.1	4193.0	4369.9	4172.6	3702.2	3573.3	3567.0	3621.7	3481.5
52.5°	4022.5	4033.3	4137.6	4349.0	4790.2	4858.2	4289.0	4123.0	4118.4	4142.2	4004.1
55°	3816.4	3836.0	3964.1	4277.7	5018.0	5633.1	5029.6	4803.6	4769.0	4717.7	4550.4
57.5°	3255.1	3286.4	3424.0	3841.0	4911.6	6247.8	6118.1	5573.5	5522.6	5209.0	4994.6
60°	2438.9	2477.3	2591.6	3041.6	4344.0	6466.8	7307.6	6431.3	6316.7	5600.2	5402.9
62.5°	1673.6	1692.8	1770.4	2063.6	3199.2	6108.1	8302.7	7580.3	7371.0	6025.6	5844.6
65°	1278.3	1284.9	1316.6	1417.6	1905.1	4961.7	8698.4	9096.3	8843.1	6534.4	6302.9
67.5°	1030.1	1024.7	1068.5	1212.8	1275.8	3027.0	8236.8	10530.5	10412.1	7214.6	6764.1
69°	908.3	900.8	945.5	1113.1	1198.2	2001.0	7363.5	10856.3	10863.8	7573.6	6795.8
70°	817.4	822.4	866.6	1053.9	1171.9	1570.6	6529.4	10773.3	10832.5	7707.9	6605.7
72.5°	545.9	559.3	648.1	875.0	1126.9	1188.6	3942.4	9244.8	9472.5	7405.6	5667.3
75°	307.8	317.8	423.3	659.8	1061.8	1131.9	2082.3	6810.9	7031.1	6192.8	4370.3
77.5°	151.0	156.4	239.4	425.8	887.9	1078.5	1181.1	4626.3	4877.8	4042.1	2471.9
80°	63.8	66.7	119.7	262.7	634.8	1029.3	877.1	2847.2	2878.5	1583.5	658.5
82.5°	24.6	25.4	50.5	163.9	403.3	802.4	733.6	1350.0	1317.5	298.2	150.1
85°	2.9	3.3	18.4	98.4	224.4	412.9	596.0	581.8	538.4	59.2	77.2
87.5°	0.0	0.0	1.3	30.0	66.7	193.5	309.9	241.5	217.7	19.2	40.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6	2490.6
2.5°	2484.4	2480.2	2457.7	2425.2	2394.3	2355.9	2319.2	2297.1	2279.6	2267.9	2281.7
5°	2491.0	2472.7	2404.3	2316.7	2230.8	2134.0	2044.0	1967.6	1937.6	1904.3	1919.3
7.5°	2489.0	2454.3	2331.3	2175.3	2017.7	1854.6	1700.3	1581.5	1519.7	1459.3	1474.7
10°	2478.5	2420.1	2233.7	2002.7	1766.6	1532.2	1313.3	1146.9	1053.9	969.6	981.7
12.5°	2455.6	2374.3	2118.6	1805.0	1489.3	1180.3	923.8	710.7	596.4	545.9	552.2
15°	2441.8	2329.6	1996.8	1604.8	1193.2	822.0	564.7	420.0	367.8	351.2	353.2
17.5°	2435.2	2286.7	1870.9	1375.9	890.4	523.4	364.9	322.0	310.7	307.8	308.6
20°	2428.5	2243.3	1741.2	1149.4	613.5	352.0	299.9	287.3	283.2	279.4	280.3
22.5°	2417.2	2201.6	1601.9	920.0	413.7	285.7	270.2	258.2	249.4	244.8	245.6
25°	2403.5	2157.8	1459.7	685.2	301.9	254.8	240.2	223.1	212.7	204.4	204.8
27.5°	2381.4	2104.0	1312.9	498.8	253.6	228.1	208.5	189.8	172.2	162.6	162.6
30°	2350.5	2043.1	1149.8	357.0	227.3	201.9	178.1	154.7	136.0	127.2	126.4
32.5°	2316.3	1979.7	985.1	270.7	206.4	177.2	150.1	125.5	108.9	101.8	101.3
35°	2287.1	1911.3	820.8	226.9	185.6	153.5	123.9	103.0	89.7	83.8	83.4
37.5°	2268.3	1842.9	660.6	202.7	166.8	131.4	103.8	85.1	75.5	70.9	70.5
40°	2265.4	1792.1	514.2	184.3	149.3	111.8	86.7	72.1	63.4	58.4	58.0
42.5°	2303.4	1762.9	394.5	168.9	131.4	94.7	73.8	61.7	52.5	47.5	47.1
45°	2403.0	1772.0	303.6	155.1	113.4	80.1	62.6	51.3	43.0	39.2	38.4
47.5°	2584.9	1835.4	241.5	141.4	96.3	68.0	53.4	42.5	35.4	31.7	31.3
50°	2908.5	1984.3	201.9	126.4	80.5	58.0	44.2	34.6	28.8	25.4	25.0
52.5°	3338.1	2249.6	180.2	111.8	66.7	49.2	36.3	27.5	22.5	20.0	19.6
55°	3811.8	2570.7	166.0	95.9	54.6	40.9	28.8	21.7	17.5	15.4	14.6
57.5°	4274.4	2848.9	152.6	80.5	45.5	33.4	22.9	17.1	13.8	11.7	11.3
60°	4699.3	3104.5	137.2	64.6	37.1	26.3	17.9	13.3	10.8	8.8	8.8
62.5°	5154.3	3302.2	115.9	50.5	30.4	20.0	14.6	12.1	8.8	7.5	7.1
65°	5636.4	3449.0	90.9	39.2	23.8	15.0	12.1	12.5	7.1	5.4	5.0
67.5°	5992.6	3419.8	67.1	30.9	18.4	11.7	11.7	13.3	6.3	4.2	3.8
69°	5914.2	3182.5	56.3	26.7	15.8	10.0	10.8	13.3	5.8	3.8	3.3
70°	5686.9	2919.8	49.6	23.8	14.2	9.2	10.4	12.9	5.4	3.8	3.3
72.5°	4736.0	2199.1	38.8	17.9	11.3	7.5	8.8	11.3	5.4	3.8	2.9
75°	3562.4	1407.5	29.6	12.9	8.3	5.8	6.7	8.3	5.4	3.3	2.9
77.5°	1938.5	507.6	21.3	8.8	5.8	4.6	4.6	6.3	5.0	2.5	1.7
80°	498.4	127.6	13.3	5.8	4.6	3.3	2.9	4.2	2.9	0.4	0.0
82.5°	123.0	28.8	7.1	4.2	3.3	1.3	1.3	2.1	1.3	0.0	0.0
85°	67.6	14.2	4.6	2.9	1.7	0.0	0.0	0.4	0.0	0.0	0.0
87.5°	34.6	4.2	1.3	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
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)