

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: P323126

Luminaire Tested: **GAN-SA2C-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323126
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-SA2C-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 10024 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
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

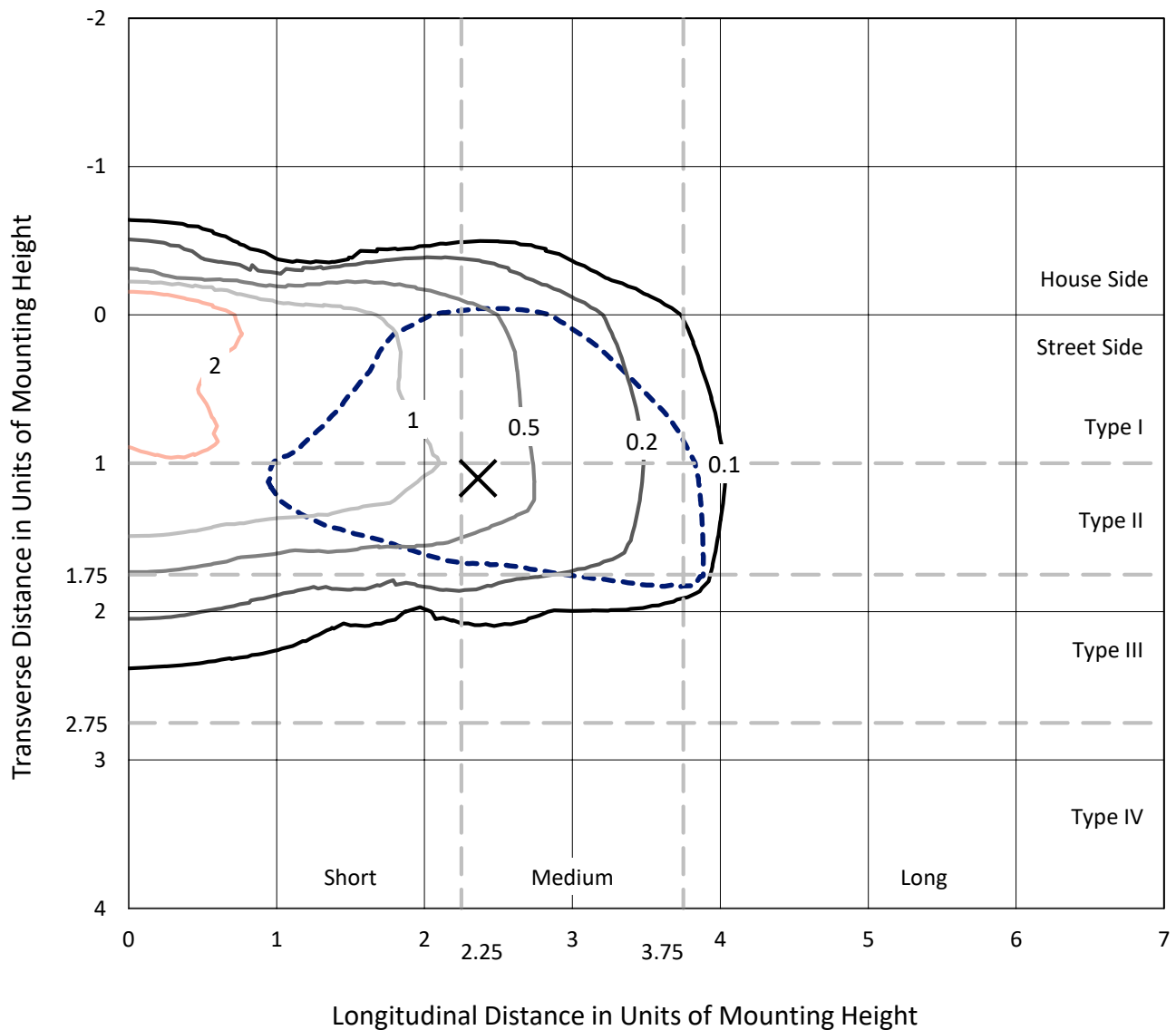


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Iso-Footcandle Lines of Horizontal Illumination

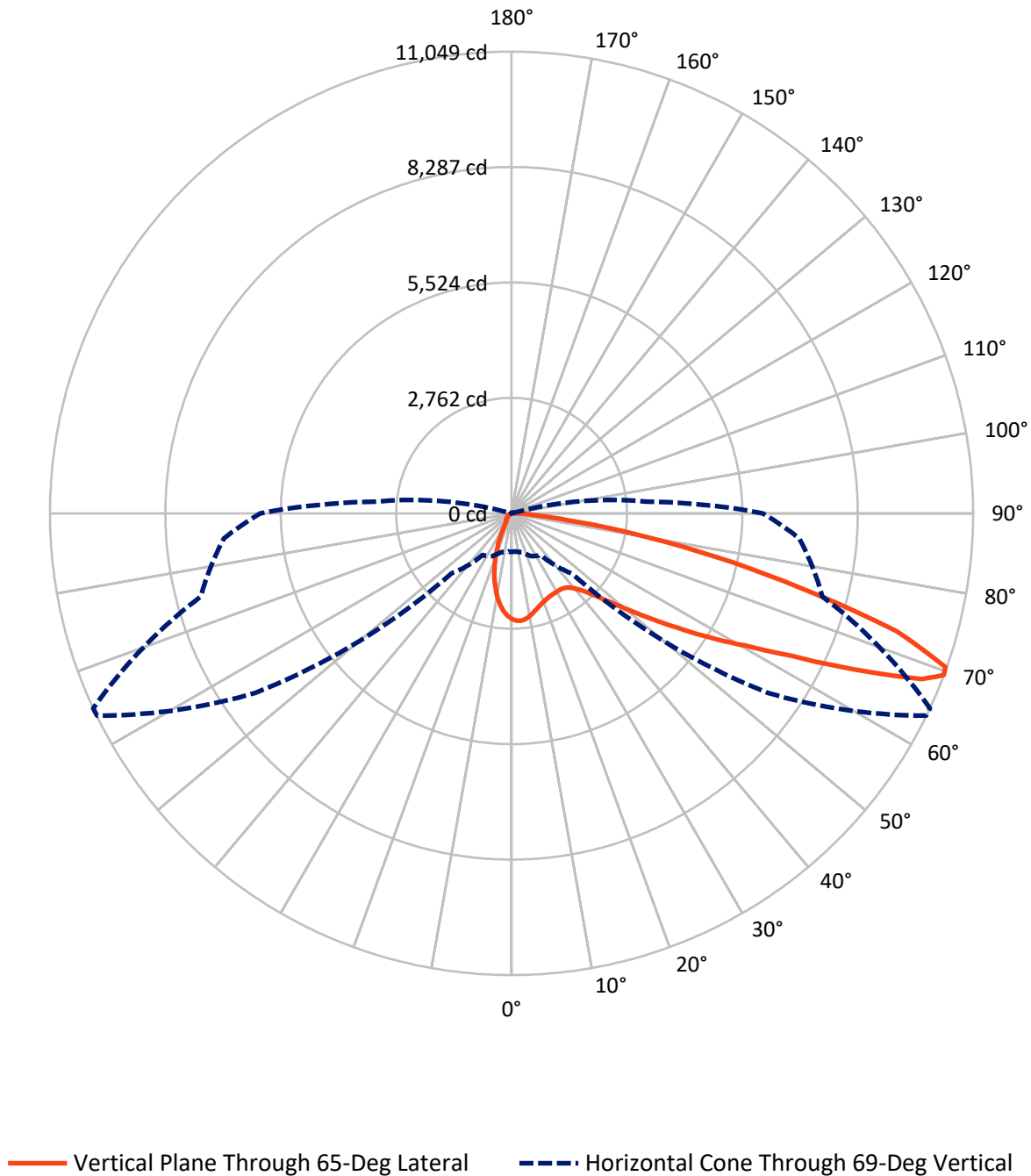
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	1181.6	0.0	1181.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8842.4	0.0	8842.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	10024.0	0.0	10024.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	2.1
10°-20°	463.7	4.6
20°-30°	642.2	6.4
30°-40°	895.5	8.9
40°-50°	1391.8	13.9
50°-60°	2234.4	22.3
60°-70°	2527.5	25.2
70°-80°	1484.4	14.8
80°-90°	172.7	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°	10024.0	100.0
0°-180°	10024.0	100.0

Coefficient of Utilization



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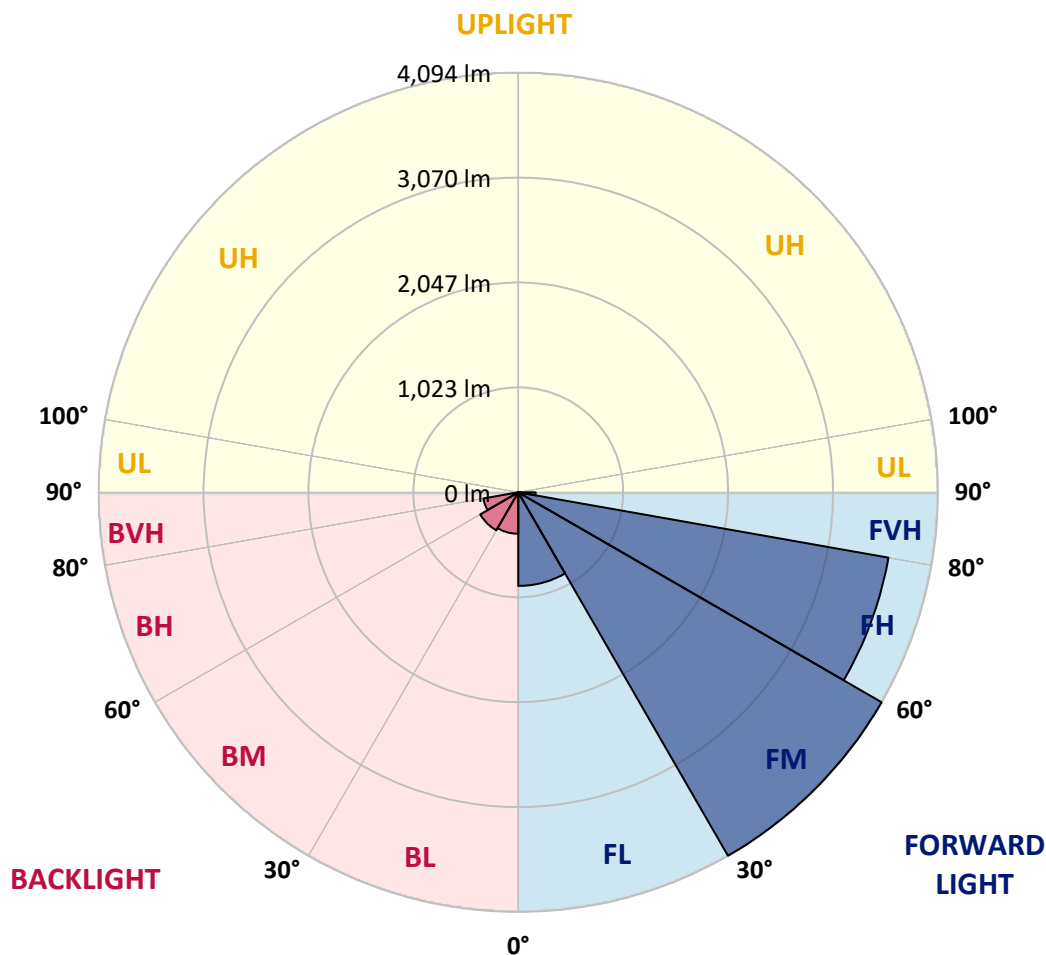
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	913.4	9.1			
FM	(30°-60°)	4093.5	40.8			
FH	(60°-80°)	3666.7	36.6			G2/5000
FVH	(80°-90°)	168.8	1.7			G2/225
BL	(0°-30°)	404.3	4.0	B1/500		
BM	(30°-60°)	428.2	4.3	B1/1000		
BH	(60°-80°)	345.2	3.4	B1/500		G1/500
BVH	(80°-90°)	3.9	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°	2533.1	2533.1	2533.1	2533.1	2533.1	2533.1	2533.1	2533.1	2533.1	2533.1	2533.1
2.5°	2555.6	2549.2	2554.3	2565.3	2570.8	2570.8	2575.1	2570.0	2571.7	2559.4	2541.6
5°	2395.7	2385.9	2399.9	2430.9	2469.0	2501.7	2550.0	2575.5	2578.0	2578.5	2557.7
7.5°	2223.4	2214.5	2235.3	2271.8	2321.0	2381.7	2466.1	2539.9	2544.1	2584.0	2568.7
10°	2083.5	2077.1	2101.3	2140.3	2198.0	2265.9	2369.4	2472.0	2484.3	2572.5	2567.0
12.5°	1972.3	1967.3	1990.2	2035.1	2094.1	2169.2	2277.3	2396.5	2413.0	2546.7	2558.5
15°	1891.3	1890.5	1909.6	1952.8	2018.2	2088.1	2198.8	2326.5	2345.6	2518.7	2557.3
17.5°	1848.9	1850.2	1864.2	1901.1	1957.1	2026.6	2132.7	2267.6	2288.3	2493.6	2563.6
20°	1844.7	1845.9	1853.6	1874.4	1919.7	1981.3	2078.8	2217.9	2239.6	2475.0	2573.8
22.5°	1882.0	1881.1	1883.3	1881.1	1906.6	1953.3	2043.2	2179.8	2204.8	2462.7	2581.9
25°	1953.7	1952.4	1951.6	1935.9	1918.9	1943.9	2028.3	2158.1	2181.9	2453.8	2586.5
27.5°	2053.4	2052.5	2051.2	2025.4	1974.5	1958.8	2030.0	2150.1	2170.0	2446.6	2585.7
30°	2184.4	2190.4	2188.7	2152.6	2073.3	2004.2	2047.8	2145.8	2163.2	2432.6	2576.8
32.5°	2338.4	2350.3	2359.6	2321.0	2221.7	2094.1	2089.0	2150.5	2163.2	2422.0	2560.7
35°	2498.3	2513.6	2547.9	2534.4	2403.7	2229.4	2159.8	2178.5	2189.1	2427.9	2553.0
37.5°	2655.7	2673.9	2748.6	2788.0	2642.1	2408.4	2270.1	2247.6	2253.1	2463.9	2561.5
40°	2838.5	2866.0	2979.3	3042.9	2926.7	2648.0	2435.1	2366.4	2368.5	2543.3	2600.9
42.5°	3078.6	3107.0	3229.6	3329.2	3247.4	2950.9	2659.1	2547.9	2545.8	2691.7	2693.8
45°	3371.2	3400.9	3527.7	3638.4	3601.5	3309.7	2945.8	2813.0	2810.5	2925.9	2869.9
47.5°	3702.9	3732.2	3845.4	3959.5	3999.4	3728.8	3311.0	3174.8	3168.9	3251.2	3141.8
50°	3987.5	4006.6	4111.0	4264.5	4444.3	4243.7	3765.3	3634.2	3627.8	3683.4	3540.9
52.5°	4091.0	4102.0	4208.1	4423.1	4871.9	4941.0	4362.1	4193.2	4188.6	4212.8	4072.4
55°	3881.5	3901.4	4031.6	4350.6	5103.5	5729.1	5115.4	4885.5	4850.3	4798.1	4628.0
57.5°	3310.6	3342.4	3482.4	3906.5	4995.3	6354.3	6222.4	5668.5	5616.7	5297.8	5079.7
60°	2480.5	2519.5	2635.7	3093.4	4418.0	6577.0	7432.1	6541.0	6424.3	5695.6	5495.0
62.5°	1702.2	1721.7	1800.6	2098.7	3253.7	6212.2	8444.2	7709.5	7496.6	6128.3	5944.2
65°	1300.0	1306.8	1339.1	1441.7	1937.6	5046.2	8846.7	9251.3	8993.9	6645.7	6410.3
67.5°	1047.7	1042.2	1086.7	1233.5	1297.5	3078.6	8377.2	10710.0	10589.6	7337.5	6879.4
69°	923.8	916.2	961.6	1132.1	1218.6	2035.1	7489.0	11041.3	11048.9	7702.7	6911.7
70°	831.4	836.4	881.4	1071.9	1191.9	1597.4	6640.6	10956.9	11017.1	7839.3	6718.3
72.5°	555.2	568.8	659.1	889.9	1146.1	1208.9	4009.6	9402.4	9633.9	7531.8	5763.9
75°	313.0	323.2	430.5	671.0	1079.9	1151.2	2117.8	6927.0	7150.9	6298.3	4444.8
77.5°	153.5	159.1	243.5	433.1	903.0	1096.9	1201.2	4705.2	4961.0	4111.0	2514.0
80°	64.9	67.9	121.7	267.2	645.6	1046.8	892.0	2895.7	2927.6	1610.5	669.7
82.5°	25.0	25.9	51.3	166.7	410.2	816.1	746.1	1373.0	1339.9	303.3	152.7
85°	3.0	3.4	18.7	100.1	228.2	419.9	606.1	591.7	547.6	60.2	78.5
87.5°	0.0	0.0	1.3	30.5	67.9	196.8	315.2	245.6	221.4	19.5	40.7
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°	2533.1	2533.1	2533.1	2533.1	2533.1	2533.1	2533.1	2533.1	2533.1	2533.1	2533.1
2.5°	2526.7	2522.5	2499.6	2466.5	2435.1	2396.1	2358.8	2336.3	2318.5	2306.6	2320.6
5°	2533.5	2514.8	2445.3	2356.2	2268.8	2170.4	2078.8	2001.2	1970.6	1936.7	1952.0
7.5°	2531.4	2496.2	2371.1	2212.4	2052.1	1886.2	1729.3	1608.4	1545.6	1484.1	1499.8
10°	2520.8	2461.4	2271.8	2036.8	1796.7	1558.4	1335.7	1166.4	1071.9	986.2	998.5
12.5°	2497.5	2414.7	2154.7	1835.8	1514.7	1200.4	939.5	722.8	606.5	555.2	561.6
15°	2483.5	2369.4	2030.9	1632.2	1213.5	836.0	574.3	427.1	374.1	357.1	359.3
17.5°	2476.7	2325.7	1902.8	1399.3	905.6	532.3	371.1	327.5	316.0	313.0	313.9
20°	2469.9	2281.6	1770.9	1169.0	623.9	358.0	305.0	292.2	288.0	284.2	285.0
22.5°	2458.4	2239.1	1629.2	935.7	420.8	290.5	274.9	262.6	253.6	249.0	249.8
25°	2444.4	2194.6	1484.6	696.9	307.1	259.2	244.3	226.9	216.3	207.8	208.3
27.5°	2422.0	2139.9	1335.3	507.3	257.9	232.0	212.1	193.0	175.2	165.4	165.4
30°	2390.6	2078.0	1169.4	363.1	231.2	205.3	181.1	157.4	138.3	129.4	128.5
32.5°	2355.8	2013.5	1001.9	275.3	210.0	180.3	152.7	127.7	110.7	103.5	103.1
35°	2326.1	1943.9	834.7	230.7	188.8	156.1	126.0	104.8	91.2	85.3	84.8
37.5°	2307.0	1874.4	671.9	206.1	169.7	133.6	105.6	86.5	76.8	72.1	71.7
40°	2304.0	1822.6	523.0	187.5	151.8	113.7	88.2	73.4	64.5	59.4	59.0
42.5°	2342.6	1792.9	401.3	171.8	133.6	96.3	75.1	62.8	53.4	48.4	47.9
45°	2444.0	1802.3	308.8	157.8	115.4	81.4	63.6	52.2	43.7	39.9	39.0
47.5°	2628.9	1866.7	245.6	143.8	98.0	69.1	54.3	43.3	36.1	32.2	31.8
50°	2958.1	2018.2	205.3	128.5	81.9	59.0	45.0	35.2	29.3	25.9	25.4
52.5°	3395.0	2287.9	183.2	113.7	67.9	50.1	36.9	28.0	22.9	20.4	19.9
55°	3876.8	2614.5	168.8	97.6	55.6	41.6	29.3	22.1	17.8	15.7	14.8
57.5°	4347.2	2897.4	155.2	81.9	46.2	33.9	23.3	17.4	14.0	11.9	11.5
60°	4779.4	3157.4	139.5	65.7	37.8	26.7	18.2	13.6	11.0	8.9	8.9
62.5°	5242.2	3358.5	117.9	51.3	31.0	20.4	14.8	12.3	8.9	7.6	7.2
65°	5732.5	3507.8	92.5	39.9	24.2	15.3	12.3	12.7	7.2	5.5	5.1
67.5°	6094.8	3478.1	68.3	31.4	18.7	11.9	11.9	13.6	6.4	4.2	3.8
69°	6015.0	3236.8	57.3	27.1	16.1	10.2	11.0	13.6	5.9	3.8	3.4
70°	5783.8	2969.5	50.5	24.2	14.4	9.3	10.6	13.1	5.5	3.8	3.4
72.5°	4816.8	2236.6	39.4	18.2	11.5	7.6	8.9	11.5	5.5	3.8	3.0
75°	3623.2	1431.5	30.1	13.1	8.5	5.9	6.8	8.5	5.5	3.4	3.0
77.5°	1971.5	516.2	21.6	8.9	5.9	4.7	4.7	6.4	5.1	2.5	1.7
80°	506.9	129.8	13.6	5.9	4.7	3.4	3.0	4.2	3.0	0.4	0.0
82.5°	125.1	29.3	7.2	4.2	3.4	1.3	1.3	2.1	1.3	0.0	0.0
85°	68.7	14.4	4.7	3.0	1.7	0.0	0.0	0.4	0.0	0.0	0.0
87.5°	35.2	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)