

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386836

Luminaire Tested: GAW-SA2C-740-U-SL4-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2C-740-U-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11980 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

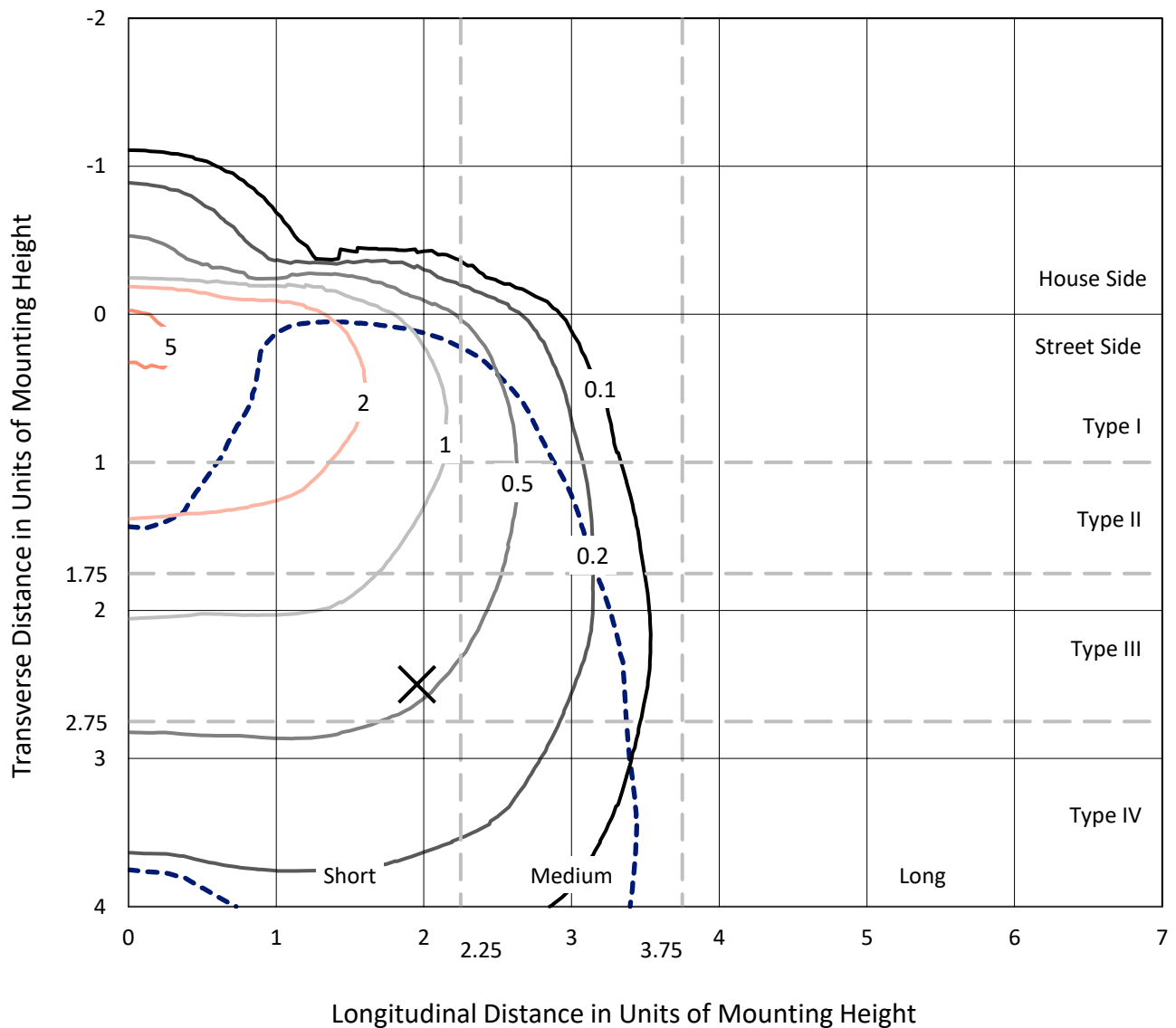
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

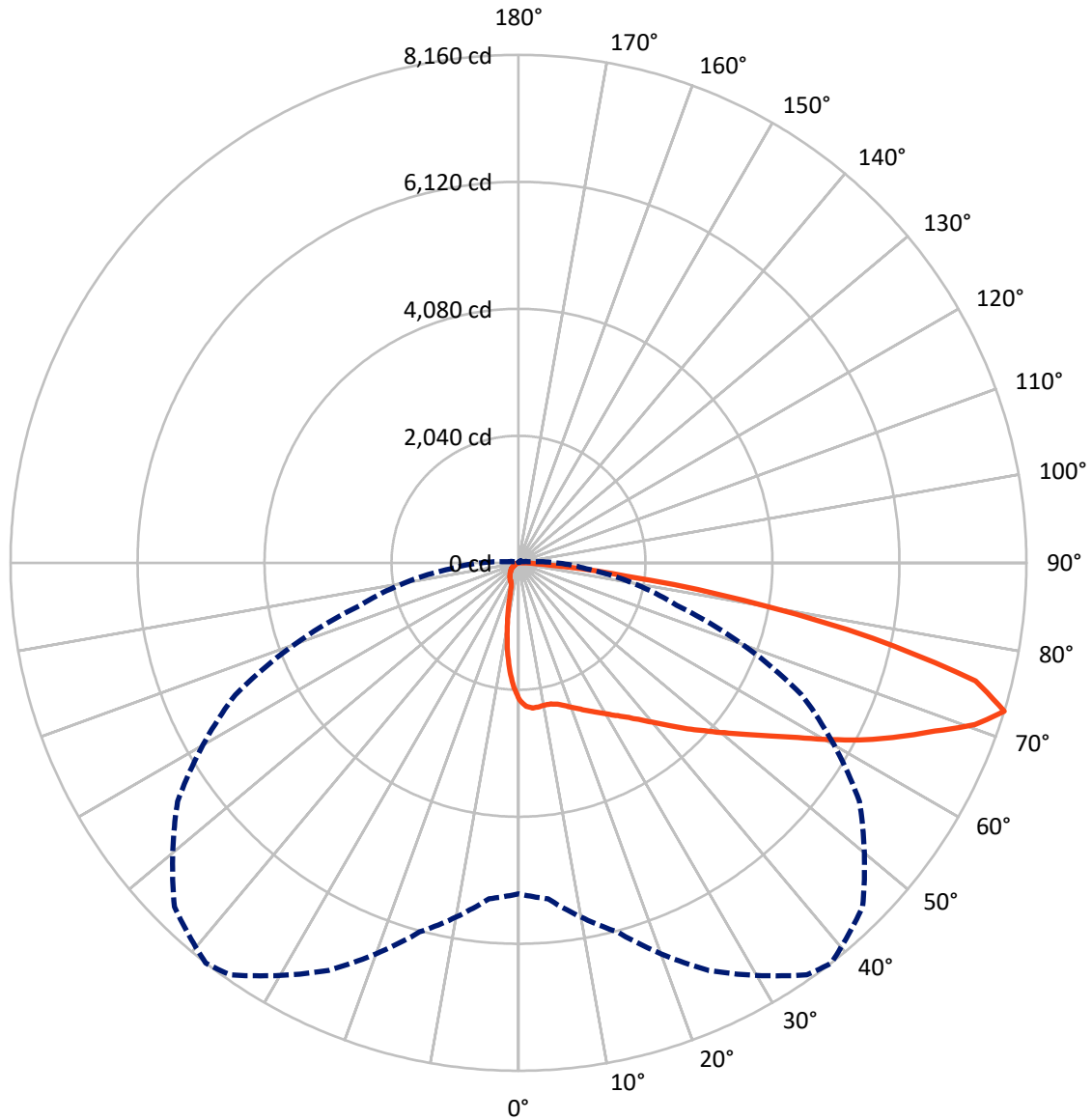
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1008.2	0.0	1008.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10971.8	0.0	10971.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	11980.0	0.0	11980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	1.6
10°-20°	459.1	3.8
20°-30°	730.2	6.1
30°-40°	1097.7	9.2
40°-50°	1674.6	14.0
50°-60°	2366.8	19.8
60°-70°	2968.8	24.8
70°-80°	2219.8	18.5
80°-90°	275.3	2.3
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°	11980.0	100.0
0°-180°	11980.0	100.0

Coefficient of Utilization

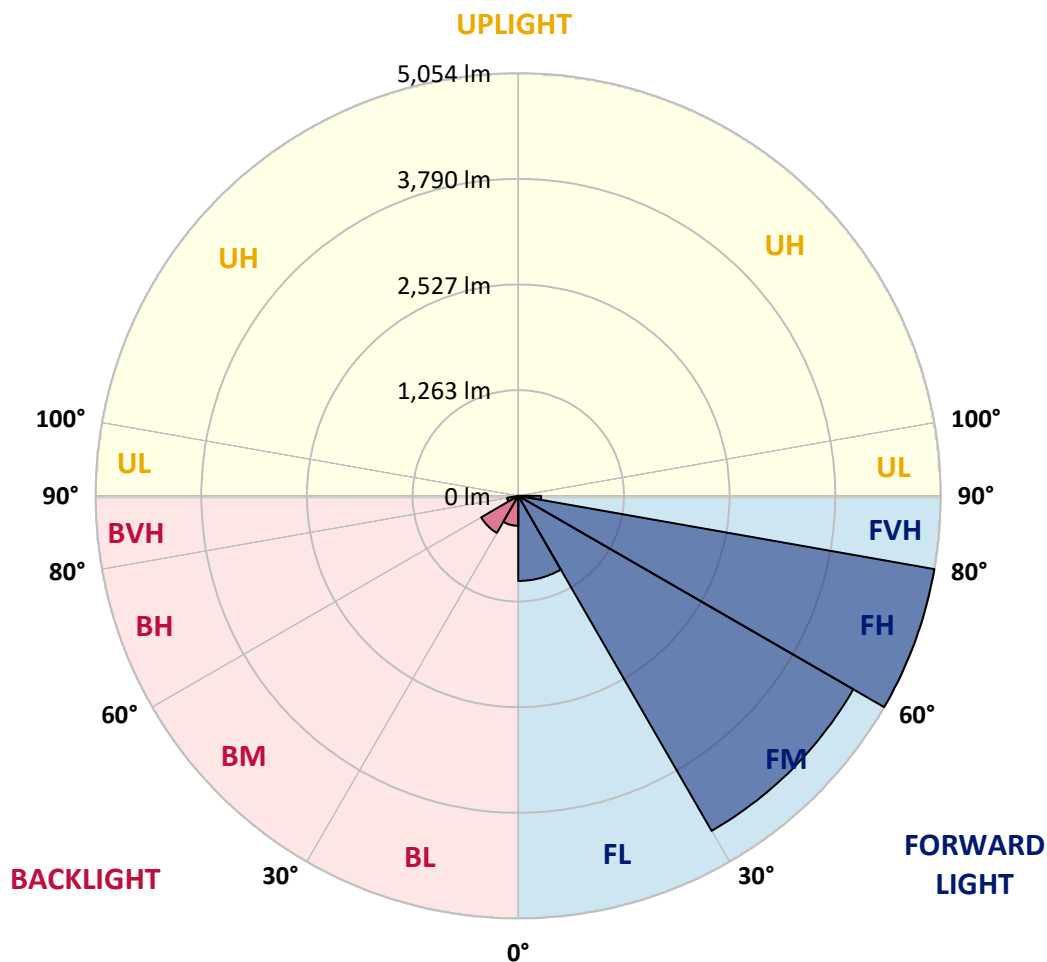


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.0	8.5			
FM (30°-60°)	4627.2	38.6			
FH (60°-80°)	5053.9	42.2			G3/7500
FVH (80°-90°)	272.7	2.3			G3/500
BL (0°-30°)	359.0	3.0	B1/500		
BM (30°-60°)	512.0	4.3	B1/1000		
BH (60°-80°)	134.7	1.1	B1/500		G1/500
BVH (80°-90°)	2.6	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-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1
2.5°	2338.4	2338.9	2333.4	2324.5	2313.0	2307.1	2297.1	2281.2	2264.3	2233.9	2201.1
5°	2386.2	2386.2	2379.2	2367.3	2348.9	2343.4	2324.5	2299.1	2264.3	2215.0	2159.8
7.5°	2381.2	2382.2	2372.7	2360.3	2341.9	2336.9	2314.0	2285.7	2242.4	2182.7	2112.0
10°	2355.3	2357.8	2350.4	2344.4	2327.5	2322.0	2300.6	2272.2	2229.0	2165.3	2084.2
12.5°	2329.0	2331.4	2333.9	2339.4	2329.0	2327.0	2310.1	2286.2	2244.9	2178.7	2087.2
15°	2312.0	2317.0	2334.9	2356.3	2358.8	2356.8	2345.9	2323.5	2281.7	2213.0	2108.6
17.5°	2312.0	2320.0	2357.3	2398.1	2412.5	2414.0	2404.6	2373.2	2323.5	2249.9	2128.5
20°	2331.4	2342.4	2400.6	2458.3	2482.2	2482.2	2463.8	2420.0	2361.8	2283.2	2141.9
22.5°	2381.2	2395.6	2468.8	2535.4	2560.8	2555.3	2530.5	2466.8	2401.6	2321.0	2158.8
25°	2479.2	2490.2	2566.3	2633.4	2648.9	2636.4	2605.1	2523.5	2452.3	2372.2	2189.6
27.5°	2605.6	2607.1	2685.7	2742.4	2733.0	2724.5	2685.2	2594.6	2525.5	2445.4	2242.9
30°	2744.4	2744.4	2813.6	2856.8	2828.0	2821.0	2781.7	2680.7	2619.0	2544.9	2318.5
32.5°	2878.7	2884.7	2940.9	2968.3	2936.0	2929.0	2890.7	2789.7	2743.4	2696.6	2436.4
35°	3008.6	3013.1	3066.3	3081.2	3050.4	3052.4	3025.0	2939.4	2922.0	2916.0	2614.0
37.5°	3134.5	3135.5	3189.7	3199.1	3183.7	3200.6	3203.1	3127.5	3159.8	3208.1	2864.3
40°	3249.4	3250.4	3304.1	3328.5	3354.9	3376.8	3396.2	3355.9	3462.8	3574.8	3162.3
42.5°	3341.4	3351.9	3420.1	3466.3	3536.0	3577.8	3630.5	3628.5	3823.6	3991.7	3522.5
45°	3422.5	3440.5	3535.5	3616.6	3736.0	3802.7	3885.2	3949.9	4229.5	4455.9	3887.2
47.5°	3529.5	3546.4	3654.9	3787.7	3946.9	4034.5	4171.3	4311.1	4675.8	4911.7	4243.5
50°	3680.3	3672.8	3779.8	3970.3	4174.8	4289.7	4484.8	4694.2	5118.6	5308.7	4452.9
52.5°	3841.0	3838.0	3917.1	4168.8	4443.5	4577.8	4835.5	5090.3	5542.0	5582.3	4549.0
55°	4040.0	4018.6	4085.3	4395.2	4762.4	4906.7	5210.2	5482.3	5879.4	5736.6	4597.2
57.5°	4248.4	4213.1	4276.8	4647.5	5122.1	5292.8	5625.1	5864.4	6103.8	5842.0	4596.7
60°	4463.9	4422.1	4497.7	4962.9	5568.9	5766.4	6074.9	6122.7	6313.2	5895.3	4562.9
62.5°	4644.0	4619.1	4731.6	5300.2	6067.9	6262.0	6414.7	6357.5	6489.8	5936.6	4483.8
65°	4834.5	4836.0	5017.6	5693.8	6598.3	6729.2	6742.1	6662.0	6637.6	5928.1	4216.1
67.5°	5092.3	5116.1	5419.1	6228.1	7114.2	7215.2	7214.2	6991.9	6745.6	5591.8	3622.5
70°	5364.9	5421.1	5881.9	6839.6	7677.5	7779.9	7727.2	7201.8	6351.5	4521.6	2563.8
72.5°	5319.1	5416.7	6139.1	7225.2	8081.9	8160.1	7817.3	6685.9	5020.1	2628.0	1091.6
75°	4103.7	4216.6	5629.1	6843.1	7657.6	7587.4	6716.7	5202.7	2743.4	733.4	245.8
77.5°	2167.8	2228.0	3718.6	5213.2	5970.9	5824.1	4731.6	2886.2	836.4	181.6	110.5
80°	1135.4	1149.3	1620.5	2957.8	3685.2	3686.2	2804.1	1267.7	344.8	93.0	74.1
82.5°	608.0	619.9	856.3	1366.7	1930.9	1750.3	1073.7	697.5	200.5	52.7	71.1
85°	146.3	148.8	485.6	624.4	759.2	542.3	318.9	585.6	54.2	30.8	57.7
87.5°	56.2	57.2	180.1	270.2	193.5	125.4	149.3	218.4	7.0	11.9	9.0
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°	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1	2203.1
2.5°	2181.2	2168.3	2136.4	2096.1	2060.3	2034.4	1995.6	1970.2	1953.3	1952.8	1946.4
5°	2126.0	2099.6	2030.9	1949.3	1875.2	1808.5	1729.9	1667.7	1621.5	1614.0	1598.1
7.5°	2066.8	2023.5	1918.0	1790.6	1666.2	1539.9	1393.1	1302.0	1223.9	1186.6	1182.6
10°	2030.4	1969.7	1820.0	1635.9	1440.9	1235.4	1043.3	910.5	814.5	787.1	766.7
12.5°	2023.0	1942.9	1744.4	1490.6	1212.0	940.3	727.9	586.6	510.0	485.6	479.1
15°	2030.4	1930.4	1680.7	1346.8	980.1	667.2	488.6	406.5	377.6	370.7	370.2
17.5°	2034.9	1915.5	1608.5	1187.1	755.3	476.6	374.1	350.3	345.8	345.3	346.3
20°	2034.4	1892.6	1522.5	1009.0	561.7	374.6	338.3	333.3	332.4	332.9	332.4
22.5°	2030.9	1865.8	1427.9	825.4	424.4	334.8	322.9	319.9	319.4	319.4	319.4
25°	2037.4	1844.4	1323.9	649.8	349.8	316.4	309.0	306.5	306.0	306.0	305.0
27.5°	2060.8	1832.4	1210.0	500.0	315.9	300.0	294.0	293.5	292.1	291.6	292.6
30°	2098.6	1832.4	1085.1	389.1	295.5	283.1	278.6	277.6	277.1	276.6	277.1
32.5°	2165.3	1846.4	948.8	323.4	276.1	264.2	261.2	262.7	261.2	261.2	261.2
35°	2285.7	1888.1	806.0	282.1	255.7	245.8	242.8	244.8	243.8	243.8	243.3
37.5°	2461.3	1965.8	662.2	257.2	237.8	227.4	223.4	226.4	225.4	225.4	224.9
40°	2675.2	2078.7	525.4	238.3	220.4	209.5	206.0	207.5	205.0	205.0	206.0
42.5°	2939.4	2222.0	406.0	219.9	203.0	192.5	190.6	189.1	184.6	182.1	182.6
45°	3233.0	2371.2	316.4	202.0	186.6	178.1	175.1	171.2	163.7	158.7	159.2
47.5°	3495.2	2486.2	257.2	184.6	171.6	165.2	160.7	153.2	142.3	136.3	136.8
50°	3633.0	2503.6	218.9	167.2	157.7	151.3	144.8	133.3	120.4	113.9	113.4
52.5°	3668.3	2422.0	190.6	151.3	143.8	136.3	127.9	112.4	98.0	91.0	90.1
55°	3681.3	2297.6	165.2	136.3	128.9	120.4	109.5	92.0	78.6	71.6	71.1
57.5°	3638.5	2112.0	145.3	122.9	113.9	103.5	90.1	73.6	60.7	55.2	55.2
60°	3543.4	1860.8	129.9	108.5	98.5	86.6	72.6	57.2	45.3	40.8	40.8
62.5°	3353.9	1535.4	115.4	93.5	84.1	71.6	58.7	43.3	31.8	29.4	29.9
65°	2996.2	1164.7	101.0	80.1	71.6	59.2	45.8	30.8	21.4	21.4	22.4
67.5°	2443.4	809.0	86.1	68.2	61.7	48.3	34.8	21.4	14.9	16.9	18.9
70°	1617.5	453.8	73.6	56.2	52.7	38.3	25.9	14.4	11.9	15.9	19.4
72.5°	610.5	176.6	61.7	45.3	45.8	29.4	18.4	10.9	10.9	17.4	22.9
75°	170.2	86.6	44.3	33.3	35.8	21.4	13.4	9.5	10.4	19.9	26.9
77.5°	100.0	63.7	28.9	19.4	24.4	14.9	9.0	7.5	9.0	16.9	25.9
80°	80.6	33.8	16.9	10.0	13.4	8.5	6.0	4.5	2.5	6.5	13.4
82.5°	80.6	20.4	8.0	7.0	7.0	4.5	3.0	2.0	0.5	0.0	3.5
85°	54.2	8.5	5.0	4.5	3.5	1.5	1.0	0.5	0.0	0.0	0.0
87.5°	9.0	3.5	2.0	1.0	0.5	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)