

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-735-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-735-U-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 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: 11253.9 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

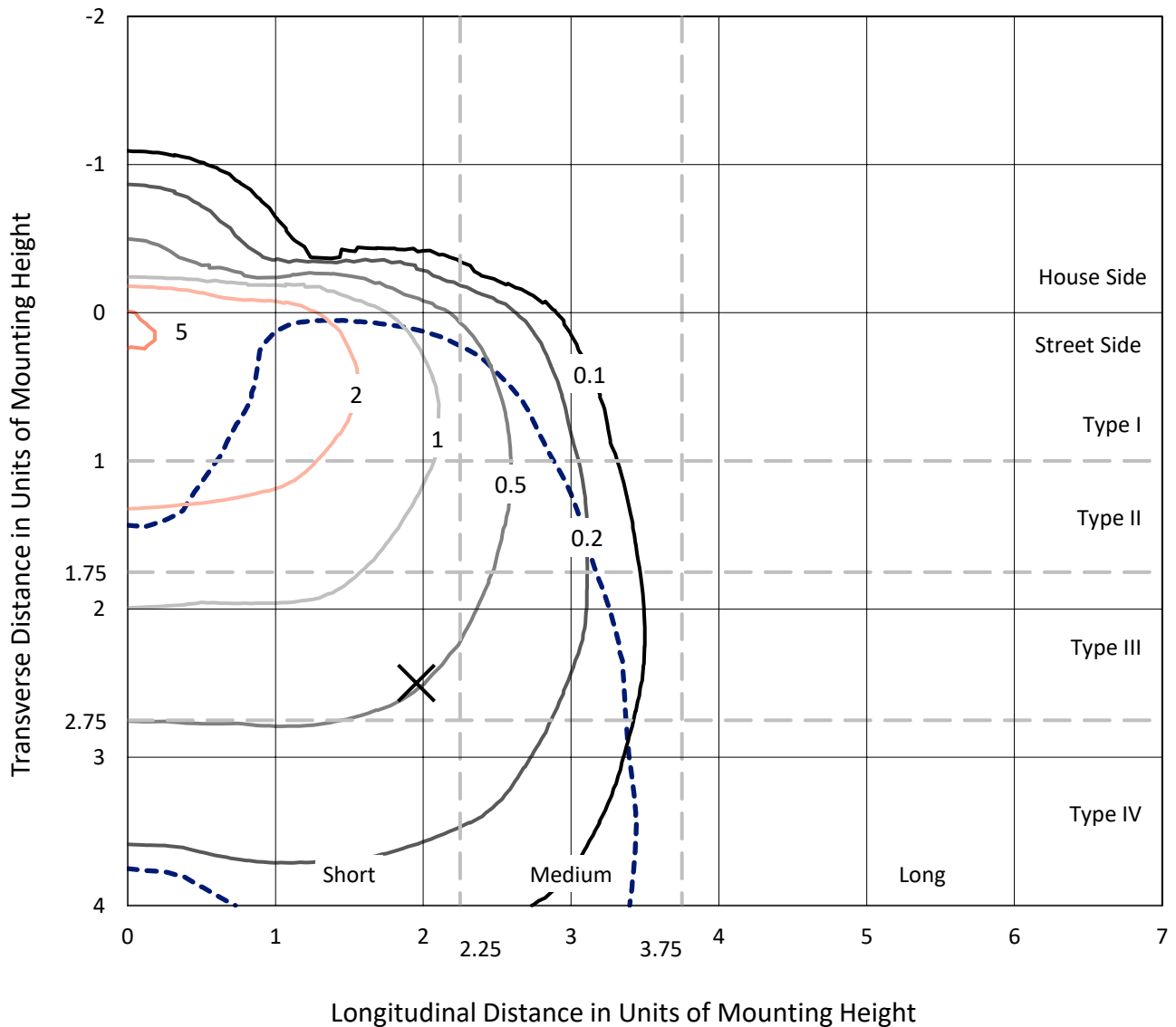
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

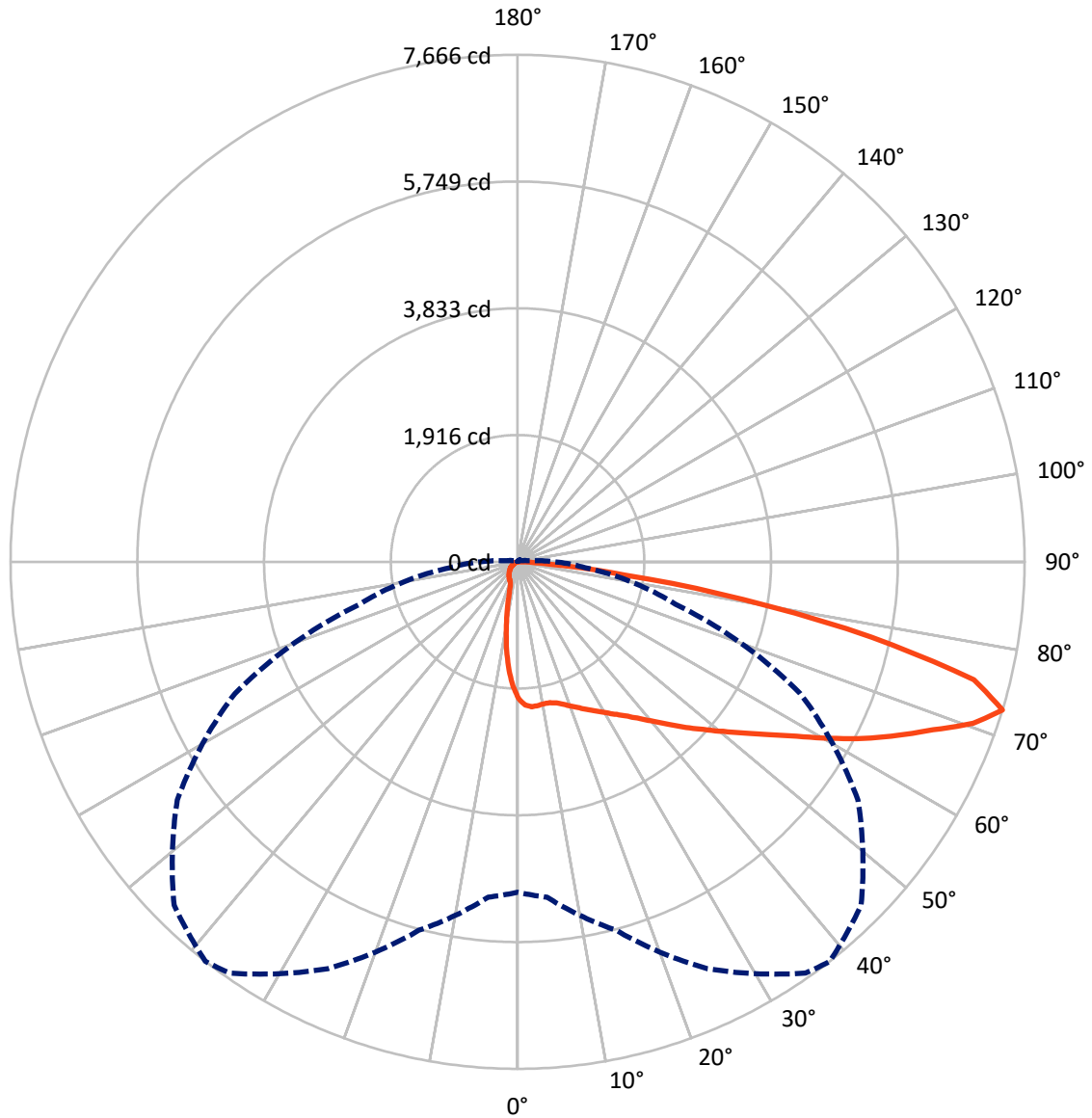
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 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	947.1	0.0	947.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10306.9	0.0	10306.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	11253.9	0.0	11253.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	1.6
10°-20°	431.3	3.8
20°-30°	685.9	6.1
30°-40°	1031.2	9.2
40°-50°	1573.1	14.0
50°-60°	2223.4	19.8
60°-70°	2788.9	24.8
70°-80°	2085.3	18.5
80°-90°	258.6	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°	11253.9	100.0
0°-180°	11253.9	100.0



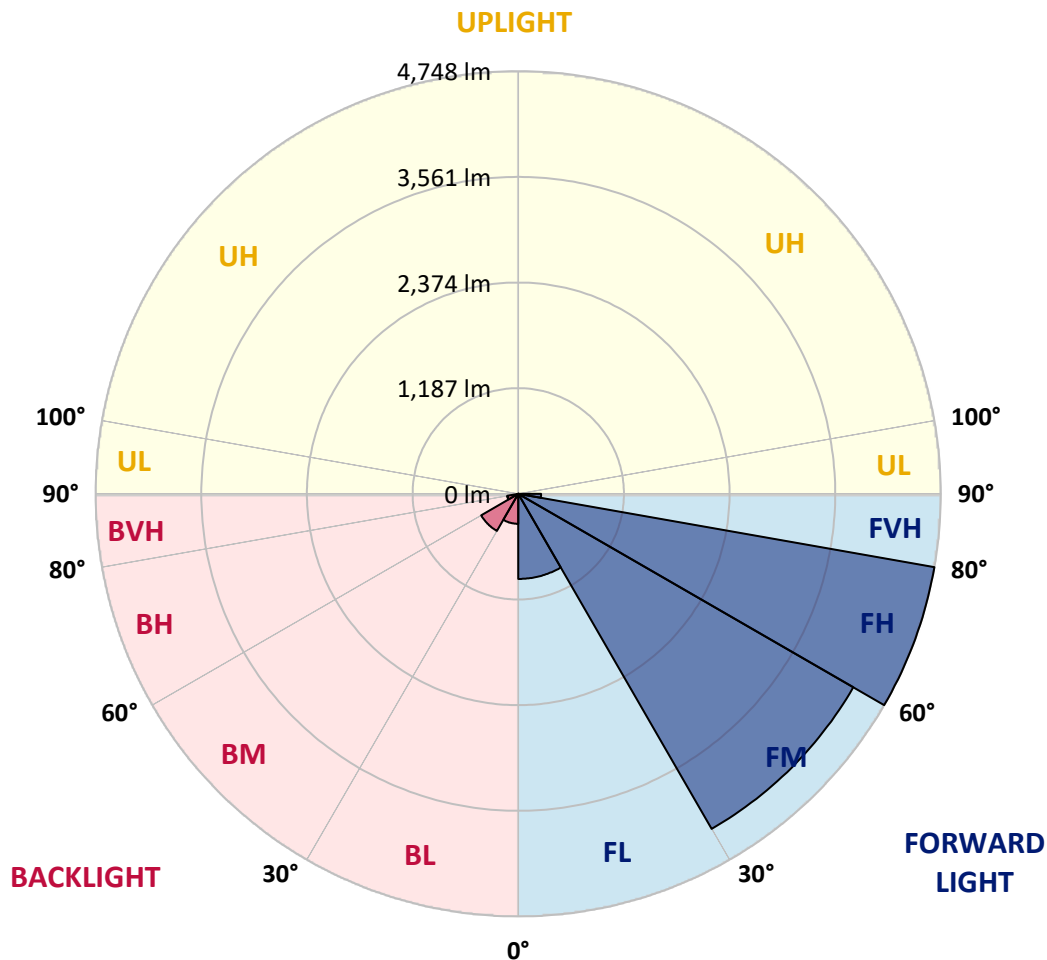
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.3	8.5			
FM (30°-60°)	4346.8	38.6			
FH (60°-80°)	4747.6	42.2			G2/5000
FVH (80°-90°)	256.2	2.3			G3/500
BL (0°-30°)	337.2	3.0	B1/500		
BM (30°-60°)	480.9	4.3	B1/1000		
BH (60°-80°)	126.5	1.1	B1/500		G1/500
BVH (80°-90°)	2.4	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°	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6
2.5°	2196.7	2197.1	2192.0	2183.6	2172.8	2167.3	2157.9	2142.9	2127.1	2098.5	2067.7
5°	2241.6	2241.6	2235.0	2223.8	2206.5	2201.4	2183.6	2159.8	2127.1	2080.8	2028.9
7.5°	2236.9	2237.8	2228.9	2217.3	2200.0	2195.3	2173.8	2147.2	2106.5	2050.4	1984.0
10°	2212.6	2214.9	2208.0	2202.3	2186.4	2181.3	2161.2	2134.5	2093.9	2034.1	1957.9
12.5°	2187.8	2190.1	2192.5	2197.6	2187.8	2186.0	2170.1	2147.6	2108.8	2046.7	1960.7
15°	2171.9	2176.6	2193.4	2213.5	2215.8	2214.0	2203.7	2182.7	2143.4	2078.9	1980.8
17.5°	2171.9	2179.4	2214.4	2252.8	2266.3	2267.7	2258.9	2229.4	2182.7	2113.5	1999.5
20°	2190.1	2200.4	2255.1	2309.3	2331.8	2331.8	2314.5	2273.3	2218.7	2144.8	2012.1
22.5°	2236.9	2250.4	2319.2	2381.7	2405.6	2400.4	2377.1	2317.3	2256.0	2180.3	2028.0
25°	2328.9	2339.3	2410.8	2473.8	2488.4	2476.6	2447.2	2370.6	2303.7	2228.4	2056.9
27.5°	2447.7	2449.1	2522.9	2576.2	2567.4	2559.4	2522.5	2437.4	2372.4	2297.2	2107.0
30°	2578.1	2578.1	2643.1	2683.7	2656.6	2650.0	2613.1	2518.2	2460.3	2390.7	2178.0
32.5°	2704.2	2709.9	2762.7	2788.4	2758.1	2751.5	2715.5	2620.6	2577.1	2533.2	2288.7
35°	2826.3	2830.5	2880.5	2894.5	2865.5	2867.4	2841.7	2761.3	2744.9	2739.3	2455.6
37.5°	2944.5	2945.5	2996.4	3005.2	2990.7	3006.6	3009.0	2938.0	2968.3	3013.7	2690.7
40°	3052.5	3053.4	3103.9	3126.8	3151.6	3172.1	3190.4	3152.5	3252.9	3358.1	2970.6
42.5°	3138.9	3148.8	3212.8	3256.2	3321.7	3361.0	3410.5	3408.6	3591.9	3749.8	3309.0
45°	3215.1	3232.0	3321.2	3397.4	3509.6	3572.2	3649.7	3710.5	3973.2	4185.8	3651.6
47.5°	3315.6	3331.5	3433.4	3558.1	3707.7	3790.0	3918.5	4049.8	4392.4	4614.0	3986.3
50°	3457.3	3450.2	3550.7	3729.7	3921.8	4029.7	4213.0	4409.7	4808.4	4987.0	4183.0
52.5°	3608.2	3605.4	3679.7	3916.1	4174.2	4300.4	4542.4	4781.8	5206.1	5244.0	4273.3
55°	3795.2	3775.0	3837.7	4128.8	4473.8	4609.3	4894.4	5150.0	5523.1	5388.9	4318.6
57.5°	3990.9	3957.8	4017.6	4365.8	4811.7	4972.0	5284.2	5509.0	5733.9	5487.9	4318.1
60°	4193.4	4154.1	4225.1	4662.1	5231.4	5416.9	5706.7	5751.6	5930.6	5538.0	4286.4
62.5°	4362.5	4339.2	4444.8	4979.0	5700.1	5882.5	6025.9	5972.2	6096.5	5576.8	4212.1
65°	4541.5	4542.9	4713.5	5348.7	6198.4	6321.4	6333.5	6258.2	6235.3	5568.8	3960.6
67.5°	4783.7	4806.0	5090.7	5850.6	6683.0	6777.9	6777.0	6568.1	6336.8	5252.9	3403.0
70°	5039.8	5092.5	5525.4	6425.1	7212.2	7308.4	7258.9	6765.3	5966.6	4247.6	2408.4
72.5°	4996.7	5088.4	5767.0	6787.3	7592.1	7665.5	7343.5	6280.7	4715.9	2468.7	1025.4
75°	3855.0	3961.0	5287.9	6428.4	7193.5	7127.6	6309.6	4887.4	2577.1	689.0	230.9
77.5°	2036.4	2093.0	3493.2	4897.2	5609.0	5471.1	4444.8	2711.3	785.7	170.6	103.8
80°	1066.6	1079.6	1522.3	2778.5	3461.9	3462.8	2634.2	1190.9	323.9	87.4	69.6
82.5°	571.2	582.3	804.4	1283.9	1813.9	1644.2	1008.6	655.2	188.3	49.5	66.8
85°	137.4	139.8	456.2	586.6	713.2	509.4	299.6	550.1	50.9	28.9	54.2
87.5°	52.8	53.7	169.2	253.8	181.8	117.8	140.3	205.2	6.6	11.2	8.5
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°	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6	2069.6
2.5°	2049.0	2036.9	2006.9	1969.1	1935.4	1911.1	1874.7	1850.8	1834.9	1834.4	1828.4
5°	1997.2	1972.4	1907.8	1831.2	1761.6	1698.9	1625.1	1566.6	1523.2	1516.2	1501.2
7.5°	1941.5	1900.9	1801.8	1682.1	1565.2	1446.6	1308.7	1223.1	1149.7	1114.7	1110.9
10°	1907.3	1850.3	1709.7	1536.8	1353.6	1160.5	980.1	855.3	765.1	739.4	720.2
12.5°	1900.4	1825.1	1638.7	1400.3	1138.5	883.3	683.8	551.0	479.1	456.2	450.1
15°	1907.3	1813.4	1578.8	1265.2	920.7	626.8	459.0	381.9	354.7	348.2	347.8
17.5°	1911.6	1799.4	1511.0	1115.2	709.5	447.7	351.4	329.1	324.8	324.4	325.3
20°	1911.1	1777.9	1430.2	947.8	527.7	351.9	317.8	313.1	312.3	312.7	312.3
22.5°	1907.8	1752.7	1341.4	775.4	398.7	314.5	303.3	300.5	300.0	300.0	300.0
25°	1913.9	1732.6	1243.7	610.4	328.6	297.2	290.3	287.9	287.5	287.5	286.5
27.5°	1935.9	1721.3	1136.7	469.7	296.8	281.8	276.2	275.7	274.4	273.9	274.9
30°	1971.4	1721.3	1019.3	365.5	277.6	265.9	261.7	260.8	260.3	259.8	260.3
32.5°	2034.1	1734.5	891.3	303.8	259.4	248.2	245.4	246.8	245.4	245.4	245.4
35°	2147.2	1773.7	757.2	265.0	240.2	230.9	228.1	230.0	229.0	229.0	228.6
37.5°	2312.1	1846.7	622.1	241.6	223.4	213.6	209.9	212.7	211.7	211.7	211.3
40°	2513.1	1952.7	493.6	223.9	207.0	196.8	193.5	194.9	192.6	192.6	193.5
42.5°	2761.3	2087.3	381.4	206.6	190.7	180.8	179.0	177.6	173.4	171.1	171.5
45°	3037.1	2227.5	297.2	189.8	175.3	167.3	164.5	160.8	153.8	149.1	149.6
47.5°	3283.4	2335.5	241.6	173.4	161.2	155.2	151.0	143.9	133.7	128.0	128.5
50°	3412.8	2351.9	205.6	157.1	148.1	142.1	136.0	125.2	113.1	107.0	106.5
52.5°	3446.0	2275.2	179.0	142.1	135.1	128.0	120.1	105.6	92.1	85.5	84.6
55°	3458.2	2158.4	155.2	128.0	121.1	113.1	102.9	86.4	73.8	67.3	66.8
57.5°	3418.0	1984.0	136.5	115.5	107.0	97.2	84.6	69.1	57.0	51.9	51.9
60°	3328.6	1748.0	122.0	101.9	92.5	81.4	68.2	53.7	42.6	38.3	38.3
62.5°	3150.6	1442.3	108.4	87.8	79.0	67.3	55.1	40.7	29.9	27.6	28.1
65°	2814.6	1094.1	94.9	75.2	67.3	55.6	43.0	28.9	20.1	20.1	21.0
67.5°	2295.3	760.0	80.9	64.1	58.0	45.4	32.7	20.1	14.0	15.9	17.8
70°	1519.5	426.3	69.1	52.8	49.5	36.0	24.3	13.5	11.2	14.9	18.2
72.5°	573.5	165.9	58.0	42.6	43.0	27.6	17.3	10.2	10.2	16.3	21.5
75°	159.9	81.4	41.6	31.3	33.6	20.1	12.6	8.9	9.8	18.7	25.3
77.5°	93.9	59.8	27.1	18.2	22.9	14.0	8.5	7.0	8.5	15.9	24.3
80°	75.7	31.8	15.9	9.4	12.6	8.0	5.6	4.2	2.3	6.1	12.6
82.5°	75.7	19.2	7.5	6.6	6.6	4.2	2.8	1.9	0.5	0.0	3.3
85°	50.9	8.0	4.7	4.2	3.3	1.4	0.9	0.5	0.0	0.0	0.0
87.5°	8.5	3.3	1.9	0.9	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)