

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: P387004

Luminaire Tested: GAW-SA2D-727-U-SL4-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387004
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-SA2D-727-U-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 10989 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

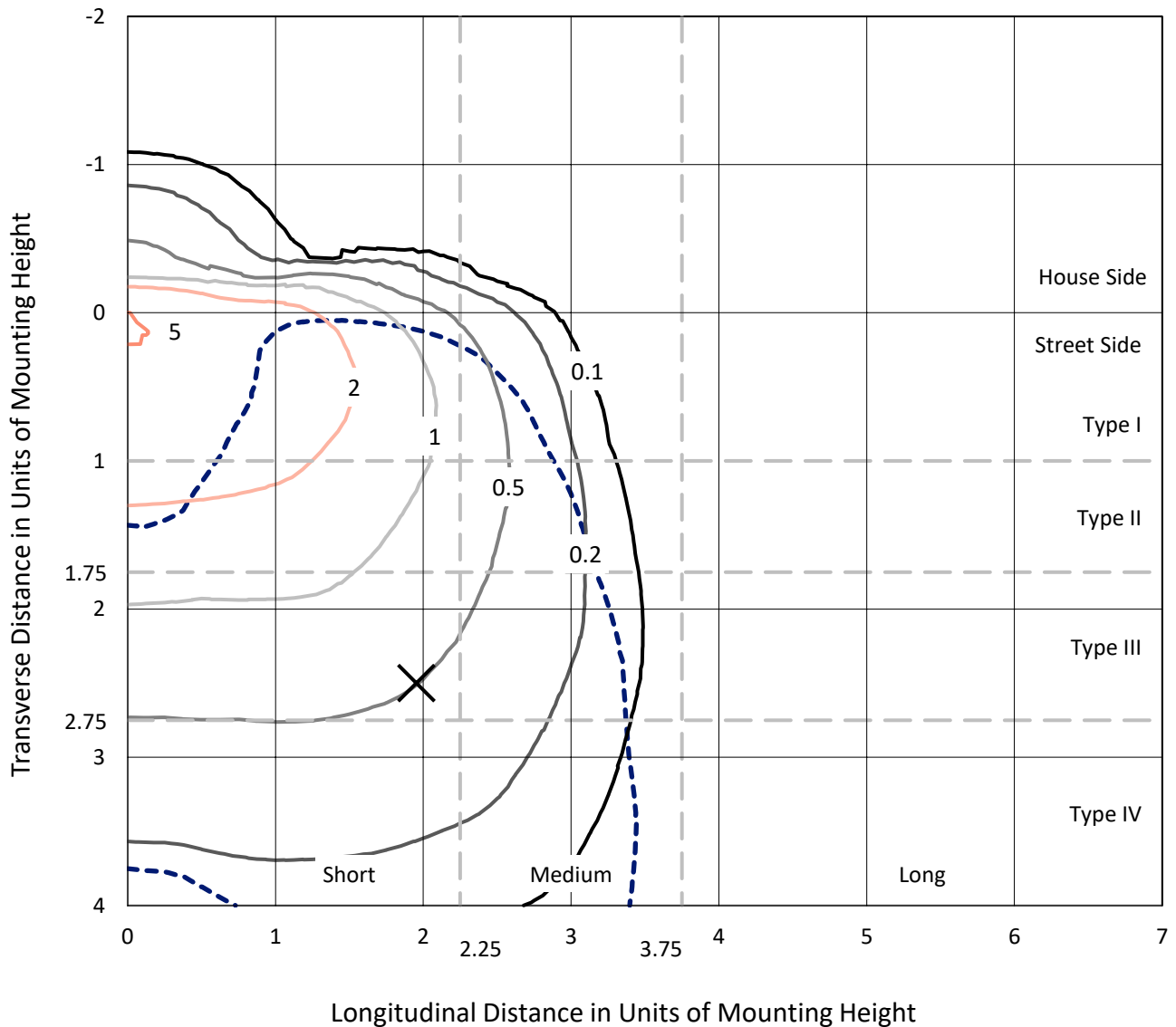
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

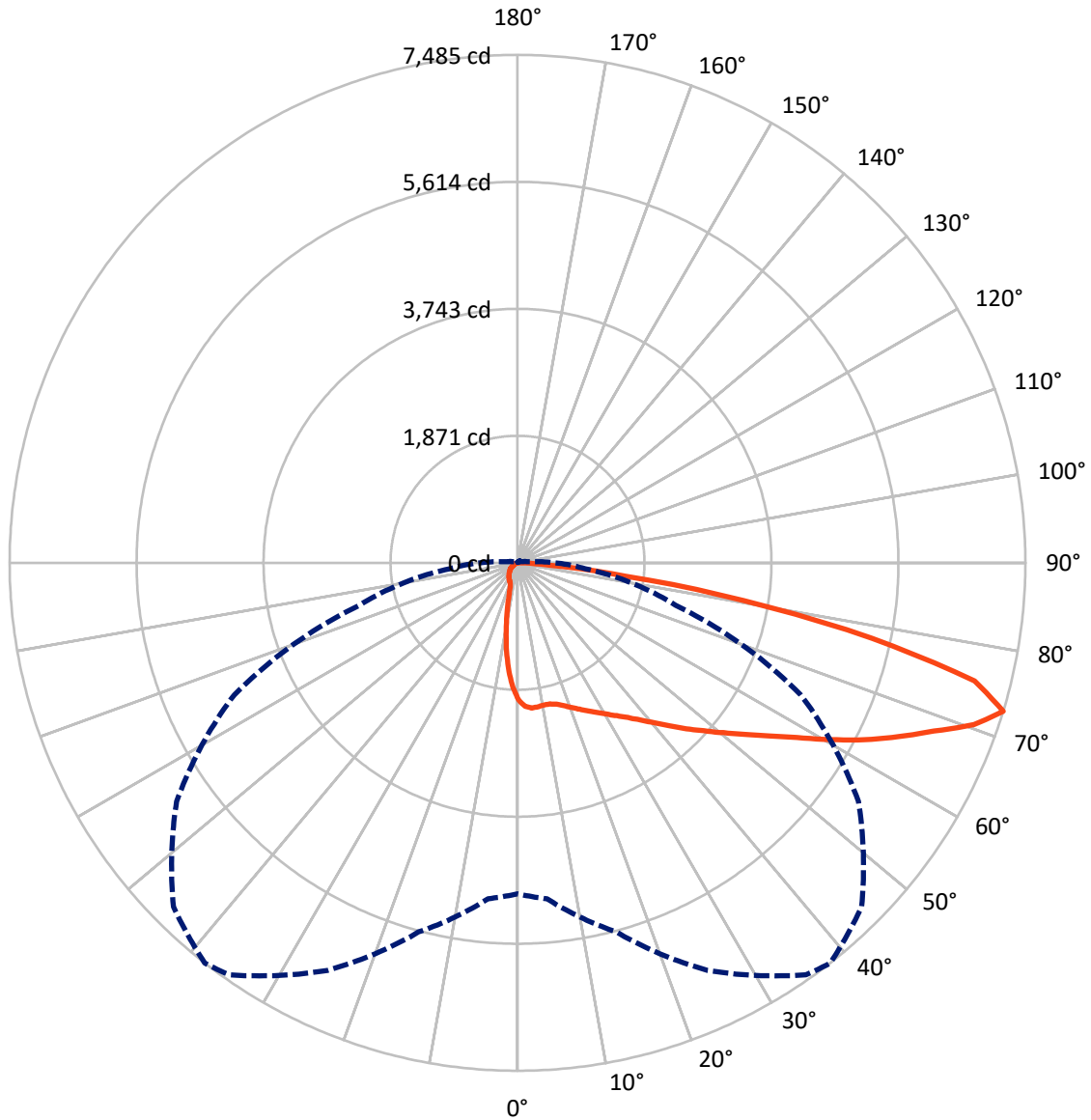
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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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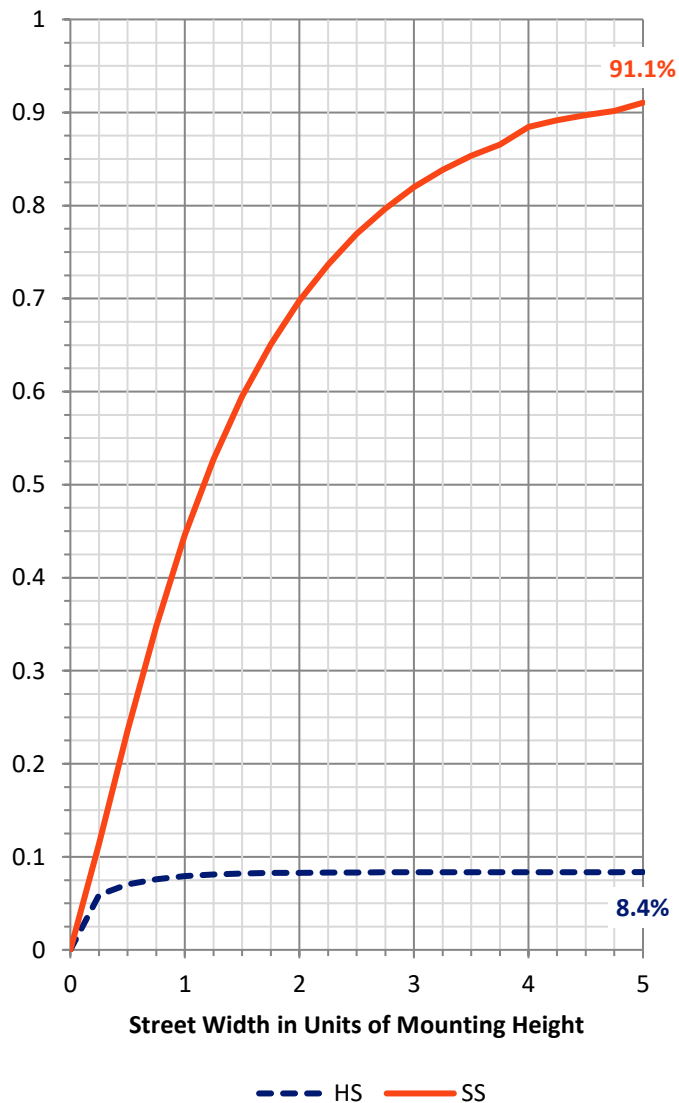
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	924.8	0.0	924.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10064.2	0.0	10064.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	10989.0	0.0	10989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	1.6
10°-20°	421.1	3.8
20°-30°	669.8	6.1
30°-40°	1006.9	9.2
40°-50°	1536.1	14.0
50°-60°	2171.0	19.8
60°-70°	2723.2	24.8
70°-80°	2036.2	18.5
80°-90°	252.5	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°	10989.0	100.0
0°-180°	10989.0	100.0

Coefficient of Utilization

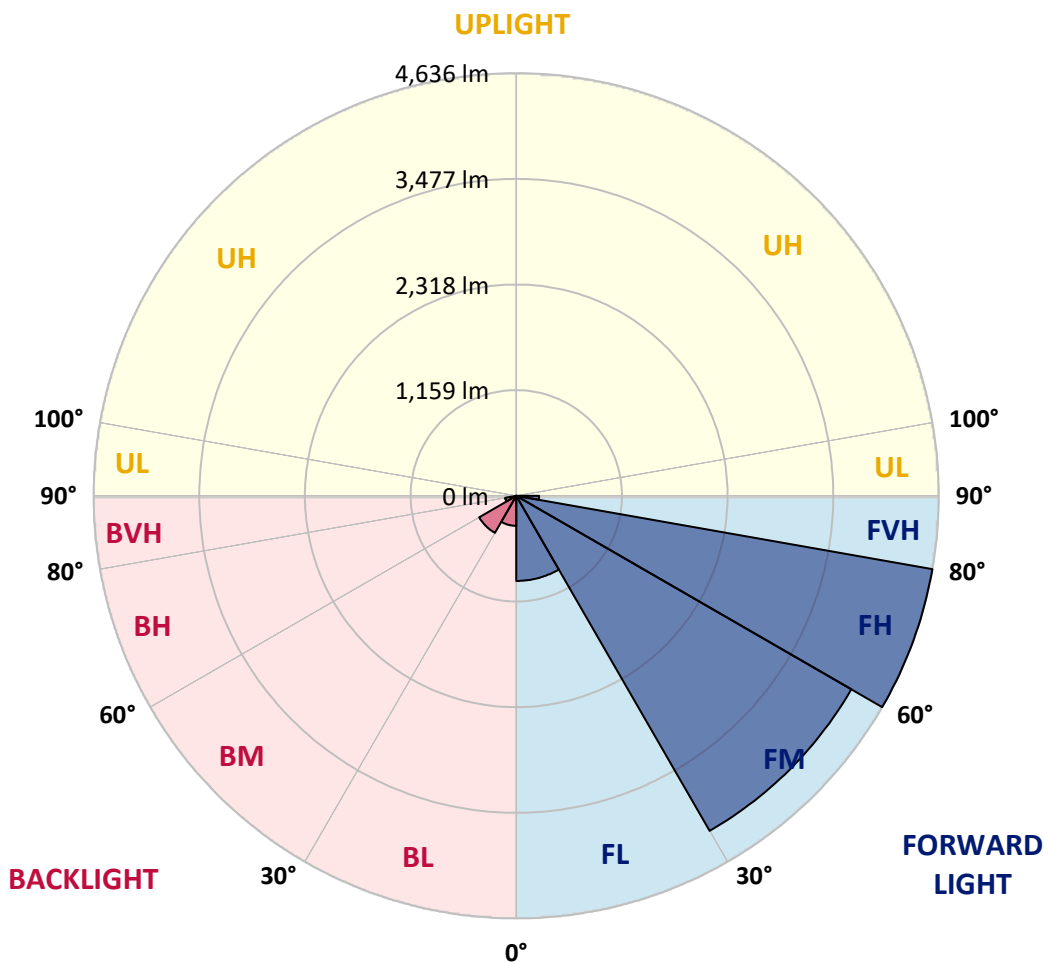


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.8	8.5			
FM (30°-60°)	4244.4	38.6			
FH (60°-80°)	4635.9	42.2			G2/5000
FVH (80°-90°)	250.1	2.3			G3/500
BL (0°-30°)	329.3	3.0	B1/500		
BM (30°-60°)	469.6	4.3	B1/1000		
BH (60°-80°)	123.5	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°	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8
2.5°	2145.0	2145.4	2140.4	2132.2	2121.7	2116.2	2107.1	2092.5	2077.0	2049.1	2019.0
5°	2188.8	2188.8	2182.4	2171.4	2154.6	2149.5	2132.2	2108.9	2077.0	2031.8	1981.1
7.5°	2184.2	2185.1	2176.5	2165.1	2148.2	2143.6	2122.6	2096.6	2056.9	2002.1	1937.3
10°	2160.5	2162.8	2155.9	2150.5	2134.9	2129.9	2110.3	2084.3	2044.6	1986.2	1911.8
12.5°	2136.3	2138.6	2140.9	2145.9	2136.3	2134.5	2119.0	2097.1	2059.2	1998.5	1914.5
15°	2120.8	2125.4	2141.8	2161.4	2163.7	2161.9	2151.8	2131.3	2092.9	2030.0	1934.1
17.5°	2120.8	2128.1	2162.3	2199.7	2213.0	2214.3	2205.7	2176.9	2131.3	2063.7	1952.4
20°	2138.6	2148.6	2202.0	2255.0	2276.9	2276.9	2260.0	2219.8	2166.4	2094.3	1964.7
22.5°	2184.2	2197.5	2264.5	2325.7	2349.0	2344.0	2321.1	2262.7	2202.9	2129.0	1980.2
25°	2274.1	2284.2	2354.0	2415.6	2429.8	2418.3	2389.6	2314.7	2249.5	2176.0	2008.5
27.5°	2390.1	2391.4	2463.5	2515.6	2506.9	2499.1	2463.1	2380.0	2316.6	2243.1	2057.4
30°	2517.4	2517.4	2580.8	2620.5	2594.1	2587.7	2551.6	2459.0	2402.4	2334.4	2126.7
32.5°	2640.6	2646.1	2697.6	2722.7	2693.1	2686.7	2651.6	2558.9	2516.5	2473.6	2234.9
35°	2759.7	2763.8	2812.7	2826.3	2798.1	2799.9	2774.8	2696.3	2680.3	2674.8	2397.8
37.5°	2875.2	2876.1	2925.8	2934.5	2920.4	2935.9	2938.2	2868.8	2898.5	2942.7	2627.4
40°	2980.6	2981.5	3030.8	3053.2	3077.4	3097.4	3115.2	3078.3	3176.4	3279.1	2900.7
42.5°	3065.0	3074.6	3137.1	3179.6	3243.5	3281.8	3330.2	3328.4	3507.3	3661.5	3231.2
45°	3139.4	3155.9	3243.0	3317.4	3426.9	3488.1	3563.9	3623.2	3879.7	4087.3	3565.7
47.5°	3237.5	3253.1	3352.6	3474.4	3620.4	3700.8	3826.3	3954.5	4289.0	4505.4	3892.4
50°	3375.8	3369.0	3467.1	3641.9	3829.5	3934.9	4113.8	4305.9	4695.2	4869.6	4084.6
52.5°	3523.2	3520.5	3593.1	3824.0	4075.9	4199.1	4435.5	4669.2	5083.6	5120.6	4172.7
55°	3705.8	3686.2	3747.3	4031.6	4368.4	4500.8	4779.2	5028.8	5393.0	5262.0	4216.9
57.5°	3897.0	3864.6	3923.0	4263.0	4698.4	4854.9	5159.8	5379.3	5598.8	5358.8	4216.5
60°	4094.6	4056.3	4125.7	4552.4	5108.2	5289.4	5572.4	5616.2	5791.0	5407.6	4185.4
62.5°	4259.8	4237.0	4340.2	4861.8	5566.0	5744.0	5884.1	5831.6	5953.0	5445.5	4112.9
65°	4434.6	4436.0	4602.6	5222.8	6052.5	6172.5	6184.4	6110.9	6088.5	5437.7	3867.3
67.5°	4671.0	4692.9	4970.9	5712.9	6525.7	6618.4	6617.5	6413.5	6187.6	5129.2	3322.9
70°	4921.1	4972.7	5395.3	6273.8	7042.4	7136.4	7088.0	6606.1	5826.1	4147.6	2351.7
72.5°	4879.1	4968.6	5631.2	6627.5	7413.4	7485.1	7170.6	6132.8	4604.9	2410.6	1001.3
75°	3764.2	3867.8	5163.5	6277.0	7024.1	6959.8	6161.1	4772.3	2516.5	672.7	225.5
77.5°	1988.4	2043.7	3411.0	4781.9	5477.0	5342.4	4340.2	2647.4	767.2	166.6	101.3
80°	1041.5	1054.2	1486.4	2713.2	3380.4	3381.3	2572.1	1162.9	316.3	85.3	68.0
82.5°	557.7	568.6	785.4	1253.7	1771.2	1605.5	984.9	639.8	183.9	48.4	65.3
85°	134.2	136.5	445.4	572.8	696.4	497.5	292.5	537.2	49.7	28.3	52.9
87.5°	51.6	52.5	165.2	247.8	177.5	115.0	136.9	200.3	6.4	11.0	8.2
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°	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8	2020.8
2.5°	2000.8	1988.9	1959.7	1922.7	1889.9	1866.1	1830.5	1807.3	1791.7	1791.3	1785.3
5°	1950.1	1925.9	1862.9	1788.1	1720.1	1658.9	1586.8	1529.8	1487.3	1480.5	1465.9
7.5°	1895.8	1856.1	1759.3	1642.5	1528.4	1412.5	1277.9	1194.3	1122.7	1088.5	1084.8
10°	1862.5	1806.8	1669.4	1500.6	1321.7	1133.2	957.0	835.2	747.1	722.0	703.3
12.5°	1855.6	1782.2	1600.1	1367.3	1111.7	862.6	667.7	538.1	467.8	445.4	439.5
15°	1862.5	1770.7	1541.6	1235.4	899.1	612.0	448.2	372.9	346.4	340.0	339.5
17.5°	1866.6	1757.1	1475.5	1088.9	692.8	437.2	343.2	321.3	317.2	316.7	317.6
20°	1866.1	1736.1	1396.5	925.5	515.3	343.7	310.3	305.8	304.9	305.3	304.9
22.5°	1862.9	1711.4	1309.8	757.1	389.3	307.1	296.2	293.5	293.0	293.0	293.0
25°	1868.9	1691.8	1214.4	596.0	320.8	290.3	283.4	281.1	280.7	280.7	279.8
27.5°	1890.3	1680.8	1109.9	458.7	289.8	275.2	269.7	269.3	267.9	267.4	268.4
30°	1925.0	1680.8	995.4	356.9	271.1	259.7	255.6	254.7	254.2	253.7	254.2
32.5°	1986.2	1693.6	870.3	296.6	253.3	242.3	239.6	241.0	239.6	239.6	239.6
35°	2096.6	1732.0	739.3	258.8	234.6	225.5	222.7	224.5	223.6	223.6	223.2
37.5°	2257.7	1803.1	607.4	235.9	218.1	208.6	204.9	207.7	206.7	206.7	206.3
40°	2453.9	1906.7	481.9	218.6	202.2	192.1	188.9	190.3	188.0	188.0	188.9
42.5°	2696.3	2038.2	372.4	201.7	186.2	176.6	174.8	173.4	169.3	167.0	167.5
45°	2965.5	2175.1	290.3	185.3	171.1	163.4	160.6	157.0	150.1	145.6	146.0
47.5°	3206.1	2280.5	235.9	169.3	157.5	151.5	147.4	140.6	130.5	125.0	125.5
50°	3332.5	2296.5	200.8	153.3	144.7	138.7	132.8	122.3	110.4	104.5	104.1
52.5°	3364.9	2221.6	174.8	138.7	131.9	125.0	117.3	103.1	89.9	83.5	82.6
55°	3376.7	2107.6	151.5	125.0	118.2	110.4	100.4	84.4	72.1	65.7	65.3
57.5°	3337.5	1937.3	133.3	112.7	104.5	94.9	82.6	67.5	55.7	50.7	50.7
60°	3250.3	1706.9	119.1	99.5	90.4	79.4	66.6	52.5	41.5	37.4	37.4
62.5°	3076.4	1408.4	105.9	85.8	77.1	65.7	53.9	39.7	29.2	26.9	27.4
65°	2748.3	1068.4	92.6	73.5	65.7	54.3	42.0	28.3	19.6	19.6	20.5
67.5°	2241.3	742.1	79.0	62.5	56.6	44.3	31.9	19.6	13.7	15.5	17.3
70°	1483.7	416.2	67.5	51.6	48.4	35.1	23.7	13.2	11.0	14.6	17.8
72.5°	560.0	162.0	56.6	41.5	42.0	26.9	16.9	10.0	10.0	16.0	21.0
75°	156.1	79.4	40.6	30.6	32.9	19.6	12.3	8.7	9.6	18.3	24.6
77.5°	91.7	58.4	26.5	17.8	22.4	13.7	8.2	6.8	8.2	15.5	23.7
80°	73.9	31.0	15.5	9.1	12.3	7.8	5.5	4.1	2.3	5.9	12.3
82.5°	73.9	18.7	7.3	6.4	6.4	4.1	2.7	1.8	0.5	0.0	3.2
85°	49.7	7.8	4.6	4.1	3.2	1.4	0.9	0.5	0.0	0.0	0.0
87.5°	8.2	3.2	1.8	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)