

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: P386612

Luminaire Tested: GAW-SA2B-740-U-SL4-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386612  
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-SA2B-740-U-SL4-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 800mA 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: 9680 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

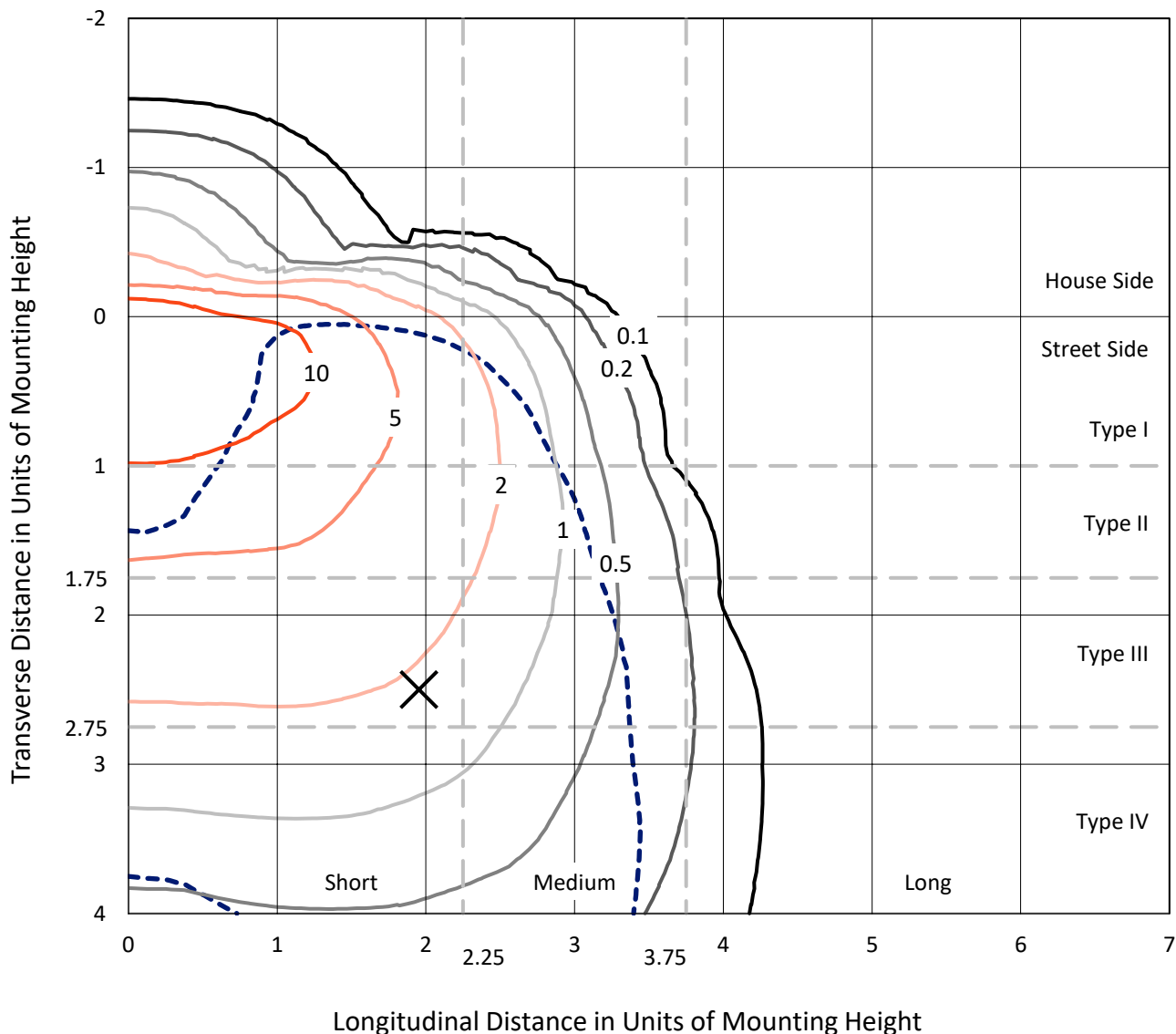
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

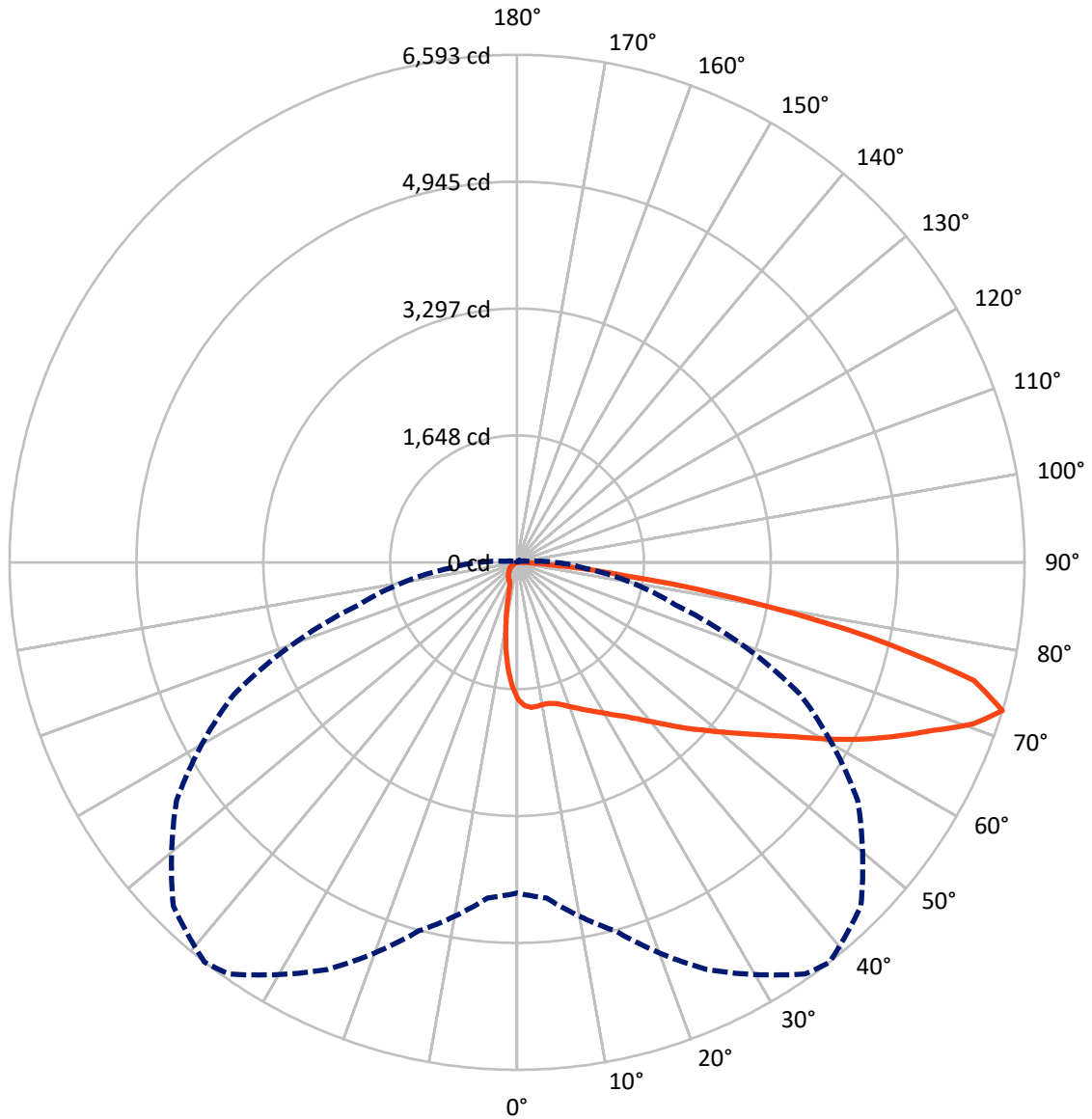
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.8 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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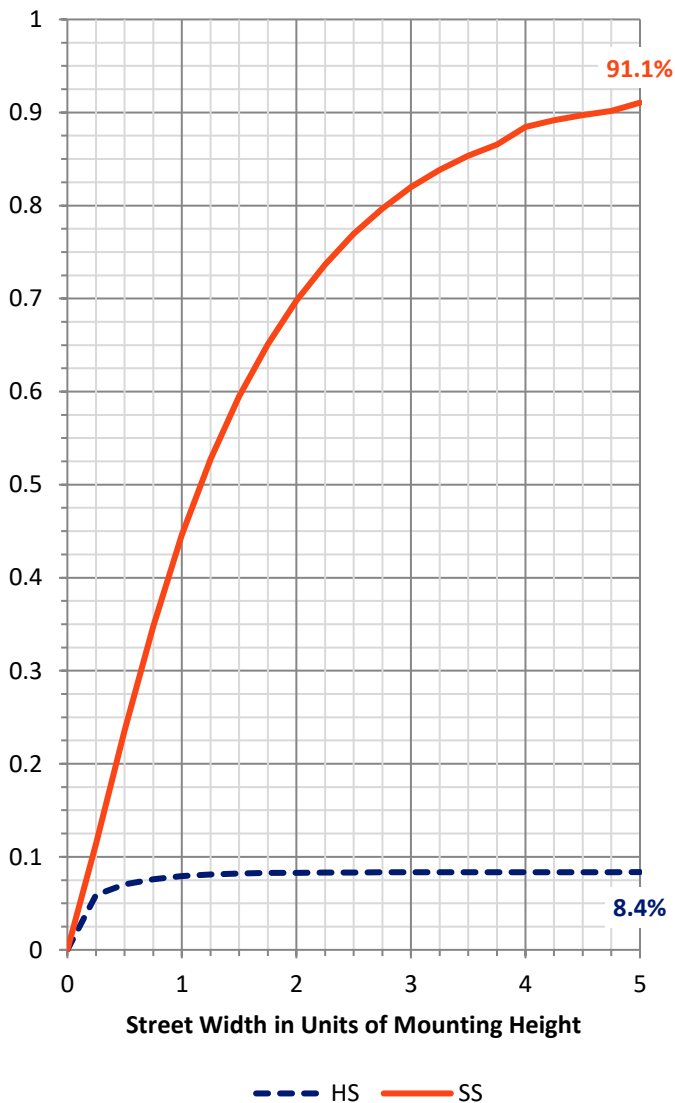
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	814.6	0.0	814.6
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	8865.4	0.0	8865.4
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	9680.0	0.0	9680.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.7	1.6
10°-20°	370.9	3.8
20°-30°	590.0	6.1
30°-40°	887.0	9.2
40°-50°	1353.1	14.0
50°-60°	1912.4	19.8
60°-70°	2398.8	24.8
70°-80°	1793.6	18.5
80°-90°	222.4	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°	9680.0	100.0
0°-180°	9680.0	100.0

**Coefficient of Utilization**

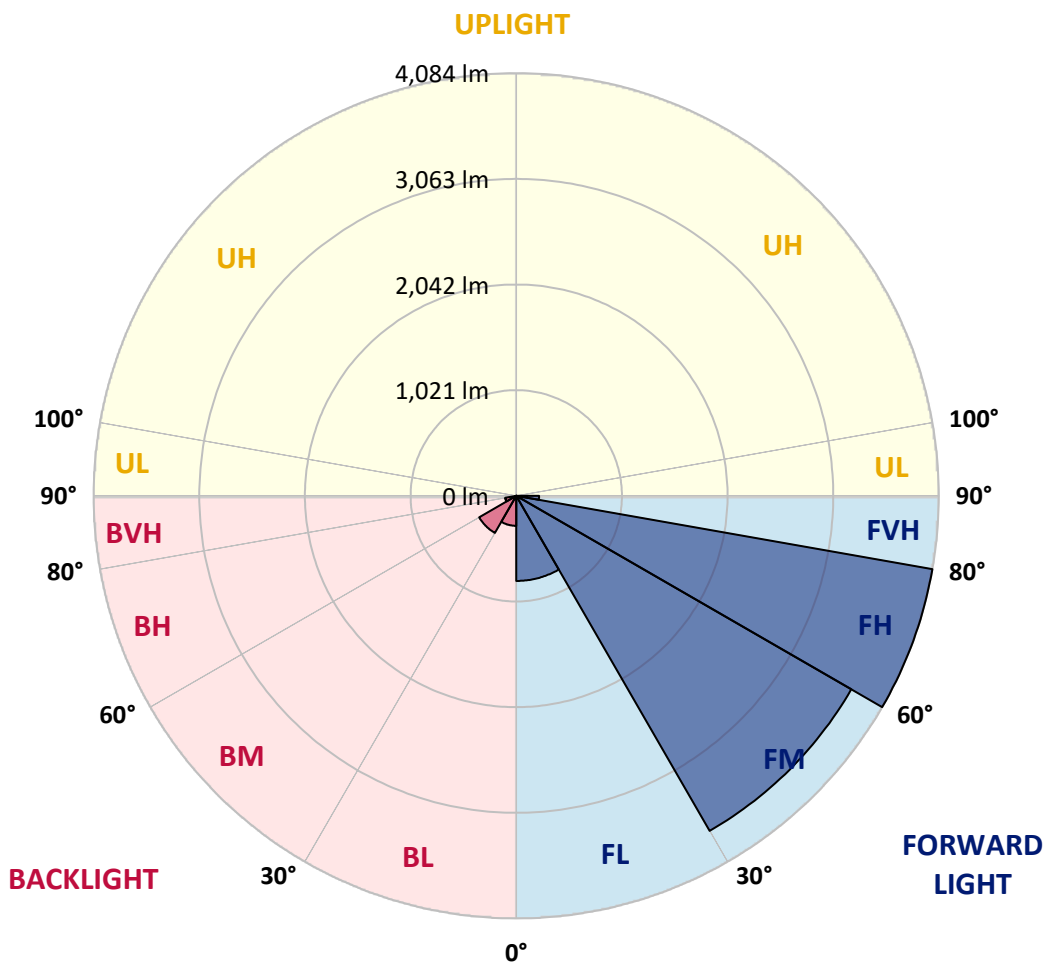


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.6	8.5			
FM (30°-60°)	3738.8	38.6			
FH (60°-80°)	4083.7	42.2			G2/5000
FVH (80°-90°)	220.3	2.3			G2/225
BL (0°-30°)	290.1	3.0	B1/500		
BM (30°-60°)	413.7	4.3	B1/1000		
BH (60°-80°)	108.8	1.1	B0/110		G0/110
BVH (80°-90°)	2.1	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1780.1	1780.1	1780.1	1780.1	1780.1	1780.1	1780.1	1780.1	1780.1	1780.1	1780.1
2.5°	1889.5	1889.9	1885.4	1878.2	1869.0	1864.1	1856.1	1843.2	1829.6	1805.0	1778.5
5°	1928.1	1928.1	1922.4	1912.8	1897.9	1893.5	1878.2	1857.7	1829.6	1789.8	1745.1
7.5°	1924.0	1924.8	1917.2	1907.2	1892.3	1888.3	1869.8	1846.9	1811.9	1763.6	1706.6
10°	1903.1	1905.1	1899.1	1894.3	1880.6	1876.2	1858.9	1836.0	1801.0	1749.6	1684.0
12.5°	1881.8	1883.8	1885.8	1890.3	1881.8	1880.2	1866.6	1847.3	1813.9	1760.4	1686.5
15°	1868.2	1872.2	1886.7	1903.9	1906.0	1904.3	1895.5	1877.4	1843.6	1788.2	1703.7
17.5°	1868.2	1874.6	1904.7	1937.7	1949.4	1950.6	1942.9	1917.6	1877.4	1817.9	1719.8
20°	1883.8	1892.7	1939.7	1986.4	2005.7	2005.7	1990.8	1955.4	1908.4	1844.8	1730.7
22.5°	1924.0	1935.7	1994.8	2048.7	2069.2	2064.7	2044.6	1993.2	1940.5	1875.4	1744.3
25°	2003.2	2012.1	2073.6	2127.9	2140.3	2130.3	2104.9	2039.0	1981.5	1916.8	1769.3
27.5°	2105.3	2106.6	2170.1	2215.9	2208.3	2201.4	2169.7	2096.5	2040.6	1975.9	1812.3
30°	2217.5	2217.5	2273.4	2308.4	2285.1	2279.4	2247.7	2166.1	2116.2	2056.3	1873.4
32.5°	2326.1	2330.9	2376.3	2398.4	2372.3	2366.7	2335.7	2254.1	2216.7	2178.9	1968.7
35°	2431.0	2434.6	2477.6	2489.7	2464.8	2466.4	2444.2	2375.1	2361.0	2356.2	2112.2
37.5°	2532.7	2533.5	2577.3	2585.0	2572.5	2586.2	2588.2	2527.1	2553.2	2592.2	2314.4
40°	2625.6	2626.4	2669.8	2689.5	2710.8	2728.5	2744.2	2711.6	2798.0	2888.5	2555.2
42.5°	2699.9	2708.4	2763.4	2800.8	2857.1	2890.9	2933.5	2931.9	3089.5	3225.4	2846.3
45°	2765.5	2779.9	2856.7	2922.2	3018.7	3072.6	3139.3	3191.6	3417.5	3600.4	3140.9
47.5°	2851.9	2865.6	2953.2	3060.5	3189.2	3259.9	3370.5	3483.5	3778.1	3968.7	3428.8
50°	2973.7	2967.7	3054.1	3208.1	3373.3	3466.2	3623.8	3793.0	4135.9	4289.5	3598.0
52.5°	3103.6	3101.1	3165.1	3368.5	3590.4	3698.9	3907.2	4113.0	4478.0	4510.6	3675.6
55°	3264.4	3247.1	3300.9	3551.4	3848.1	3964.7	4209.9	4429.8	4750.6	4635.2	3714.6
57.5°	3432.8	3404.3	3455.7	3755.2	4138.7	4276.6	4545.2	4738.5	4931.9	4720.5	3714.2
60°	3606.9	3573.1	3634.2	4010.1	4499.7	4659.3	4908.6	4947.2	5101.2	4763.5	3686.9
62.5°	3752.4	3732.3	3823.2	4282.7	4903.0	5059.8	5183.2	5136.9	5243.9	4796.8	3623.0
65°	3906.4	3907.6	4054.3	4600.7	5331.5	5437.2	5447.7	5383.0	5363.3	4790.0	3406.7
67.5°	4114.6	4133.9	4378.7	5032.4	5748.4	5830.0	5829.2	5649.5	5450.5	4518.2	2927.1
70°	4334.9	4380.3	4752.6	5526.5	6203.5	6286.3	6243.7	5819.2	5132.1	3653.5	2071.6
72.5°	4297.9	4376.7	4960.5	5838.1	6530.3	6593.4	6316.5	5402.3	4056.3	2123.4	882.0
75°	3315.8	3407.1	4548.4	5529.3	6187.4	6130.7	5427.2	4203.9	2216.7	592.6	198.6
77.5°	1751.6	1800.2	3004.7	4212.3	4824.6	4706.0	3823.2	2332.1	675.8	146.7	89.2
80°	917.4	928.7	1309.4	2390.0	2977.7	2978.5	2265.8	1024.3	278.6	75.2	59.9
82.5°	491.3	500.9	691.9	1104.3	1560.2	1414.3	867.5	563.6	162.0	42.6	57.5
85°	118.2	120.2	392.4	504.5	613.5	438.2	257.7	473.2	43.8	24.9	46.6
87.5°	45.4	46.2	145.5	218.3	156.4	101.3	120.6	176.5	5.6	9.6	7.2
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°	1780.1	1780.1	1780.1	1780.1	1780.1	1780.1	1780.1	1780.1	1780.1	1780.1	1780.1
2.5°	1762.4	1752.0	1726.3	1693.7	1664.7	1643.8	1612.5	1592.0	1578.3	1577.9	1572.7
5°	1717.8	1696.5	1641.0	1575.1	1515.2	1461.3	1397.8	1347.6	1310.2	1304.1	1291.3
7.5°	1670.0	1635.0	1549.8	1446.9	1346.3	1244.2	1125.6	1052.1	989.0	958.8	955.6
10°	1640.6	1591.6	1470.6	1321.8	1164.2	998.2	843.0	735.7	658.1	636.0	619.5
12.5°	1634.6	1569.9	1409.5	1204.4	979.3	759.8	588.1	474.0	412.1	392.4	387.1
15°	1640.6	1559.8	1358.0	1088.3	792.0	539.1	394.8	328.4	305.1	299.5	299.1
17.5°	1644.2	1547.8	1299.7	959.2	610.3	385.1	302.3	283.0	279.4	279.0	279.8
20°	1643.8	1529.3	1230.2	815.3	453.9	302.7	273.4	269.3	268.5	268.9	268.5
22.5°	1641.0	1507.6	1153.8	666.9	342.9	270.6	260.9	258.5	258.1	258.1	258.1
25°	1646.2	1490.3	1069.8	525.0	282.6	255.7	249.7	247.6	247.2	247.2	246.4
27.5°	1665.1	1480.6	977.7	404.0	255.3	242.4	237.6	237.2	236.0	235.6	236.4
30°	1695.7	1480.6	876.8	314.4	238.8	228.7	225.1	224.3	223.9	223.5	223.9
32.5°	1749.6	1491.9	766.6	261.3	223.1	213.5	211.1	212.3	211.1	211.1	211.1
35°	1846.9	1525.6	651.3	227.9	206.6	198.6	196.2	197.8	197.0	197.0	196.6
37.5°	1988.8	1588.4	535.1	207.8	192.2	183.7	180.5	182.9	182.1	182.1	181.7
40°	2161.6	1679.6	424.5	192.6	178.1	169.2	166.4	167.6	165.6	165.6	166.4
42.5°	2375.1	1795.4	328.0	177.7	164.0	155.6	154.0	152.8	149.1	147.1	147.5
45°	2612.3	1916.0	255.7	163.2	150.8	143.9	141.5	138.3	132.3	128.2	128.6
47.5°	2824.2	2008.9	207.8	149.1	138.7	133.5	129.9	123.8	115.0	110.2	110.6
50°	2935.5	2022.9	176.9	135.1	127.4	122.2	117.0	107.7	97.3	92.1	91.7
52.5°	2964.1	1957.0	154.0	122.2	116.2	110.2	103.3	90.9	79.2	73.6	72.8
55°	2974.5	1856.5	133.5	110.2	104.1	97.3	88.4	74.4	63.5	57.9	57.5
57.5°	2939.9	1706.6	117.4	99.3	92.1	83.6	72.8	59.5	49.0	44.6	44.6
60°	2863.1	1503.5	104.9	87.6	79.6	70.0	58.7	46.2	36.6	33.0	33.0
62.5°	2710.0	1240.6	93.3	75.6	67.9	57.9	47.4	35.0	25.7	23.7	24.1
65°	2420.9	941.1	81.6	64.7	57.9	47.8	37.0	24.9	17.3	17.3	18.1
67.5°	1974.3	653.7	69.5	55.1	49.8	39.0	28.1	17.3	12.1	13.7	15.3
70°	1306.9	366.6	59.5	45.4	42.6	31.0	20.9	11.7	9.6	12.9	15.7
72.5°	493.3	142.7	49.8	36.6	37.0	23.7	14.9	8.8	8.8	14.1	18.5
75°	137.5	70.0	35.8	26.9	28.9	17.3	10.9	7.6	8.4	16.1	21.7
77.5°	80.8	51.5	23.3	15.7	19.7	12.1	7.2	6.0	7.2	13.7	20.9
80°	65.1	27.3	13.7	8.0	10.9	6.8	4.8	3.6	2.0	5.2	10.9
82.5°	65.1	16.5	6.4	5.6	5.6	3.6	2.4	1.6	0.4	0.0	2.8
85°	43.8	6.8	4.0	3.6	2.8	1.2	0.8	0.4	0.0	0.0	0.0
87.5°	7.2	2.8	1.6	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)