

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: P362537

Luminaire Tested: NVN-SA1C-830-U-AFL

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P362537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: NVN-SA1C-830-U-AFL  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5911 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

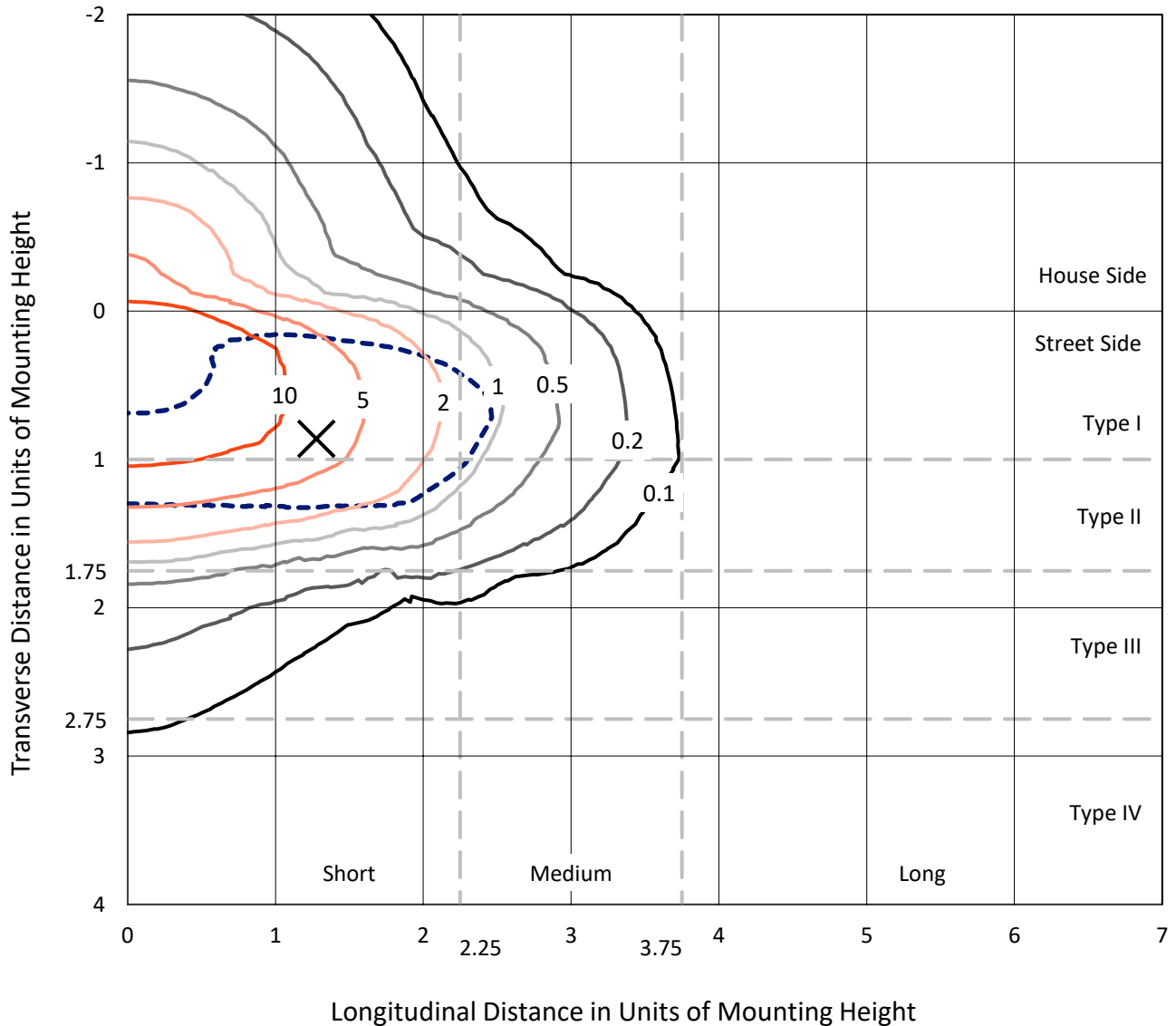
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

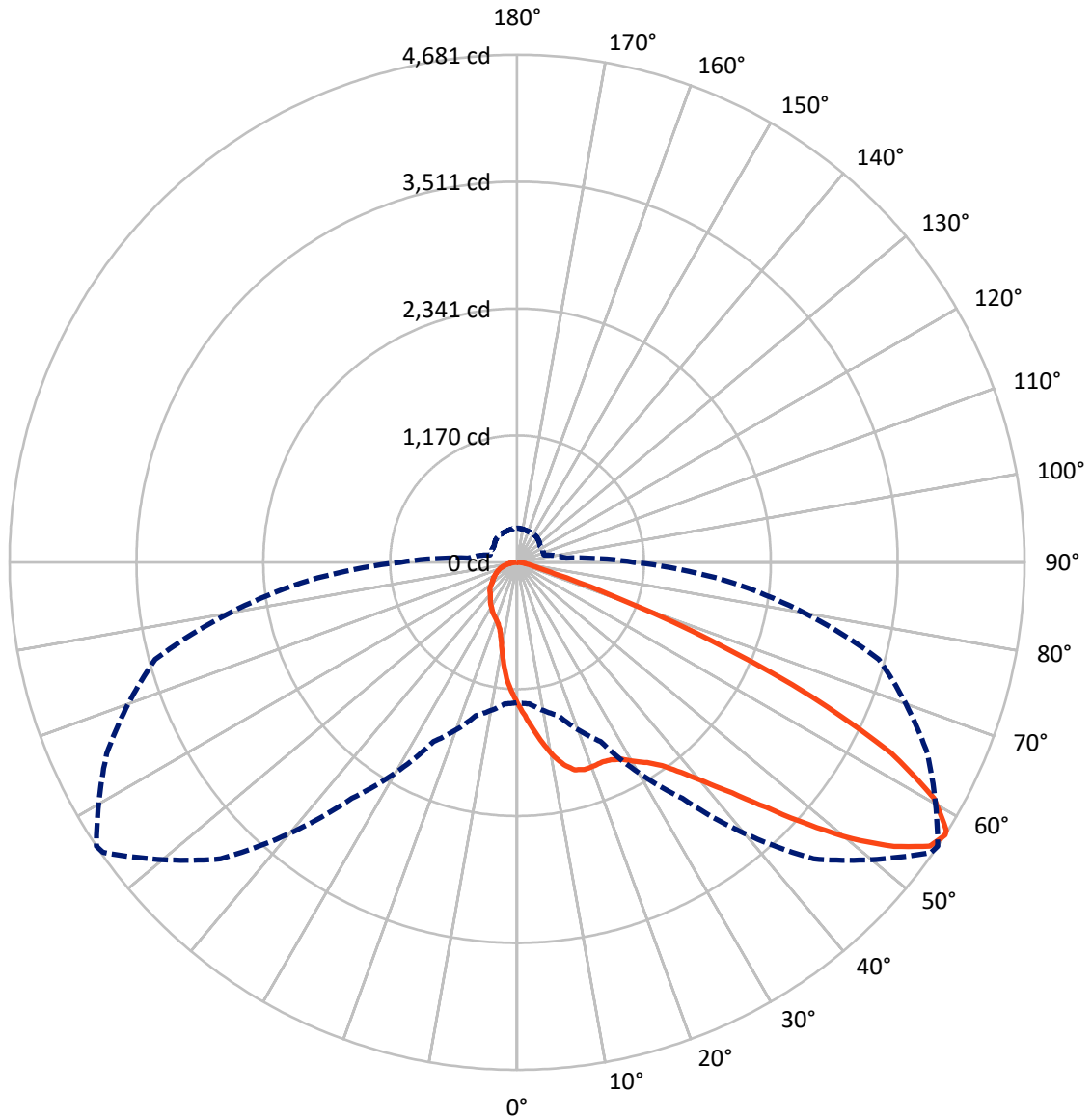
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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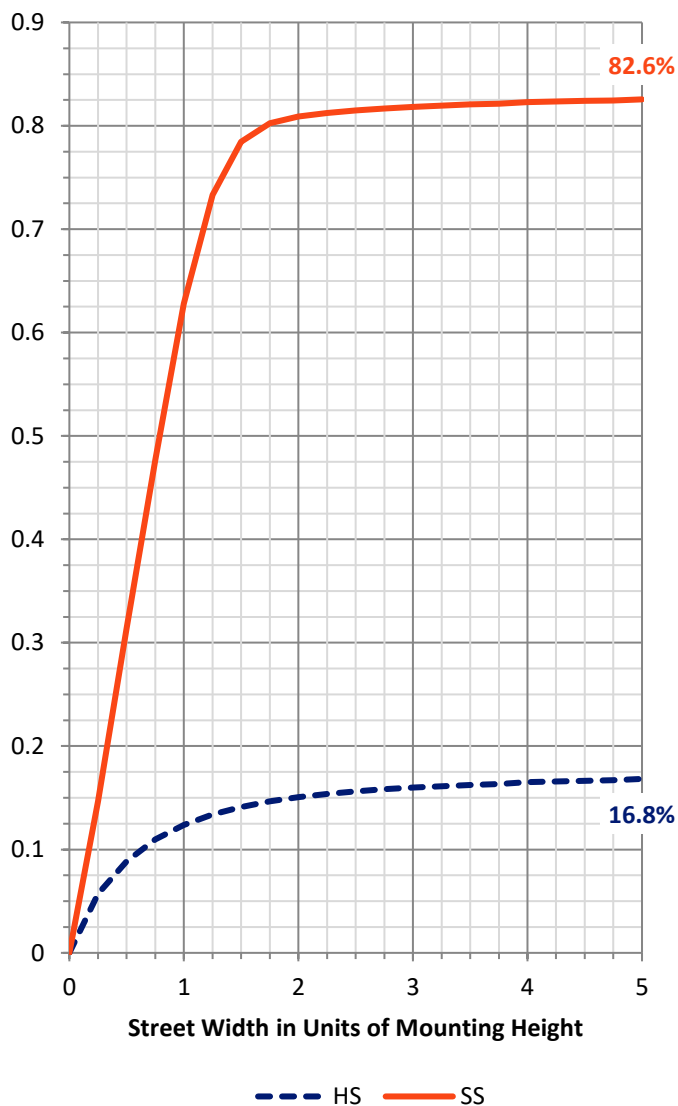
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1018.9	0.0	1018.9
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	4892.1	0.0	4892.1
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	5911.0	0.0	5911.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.2	2.1
10°-20°	354.1	6.0
20°-30°	576.7	9.8
30°-40°	862.1	14.6
40°-50°	1307.7	22.1
50°-60°	1465.7	24.8
60°-70°	865.7	14.6
70°-80°	283.6	4.8
80°-90°	70.1	1.2
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°	5911.0	100.0
0°-180°	5911.0	100.0

**Coefficient of Utilization**

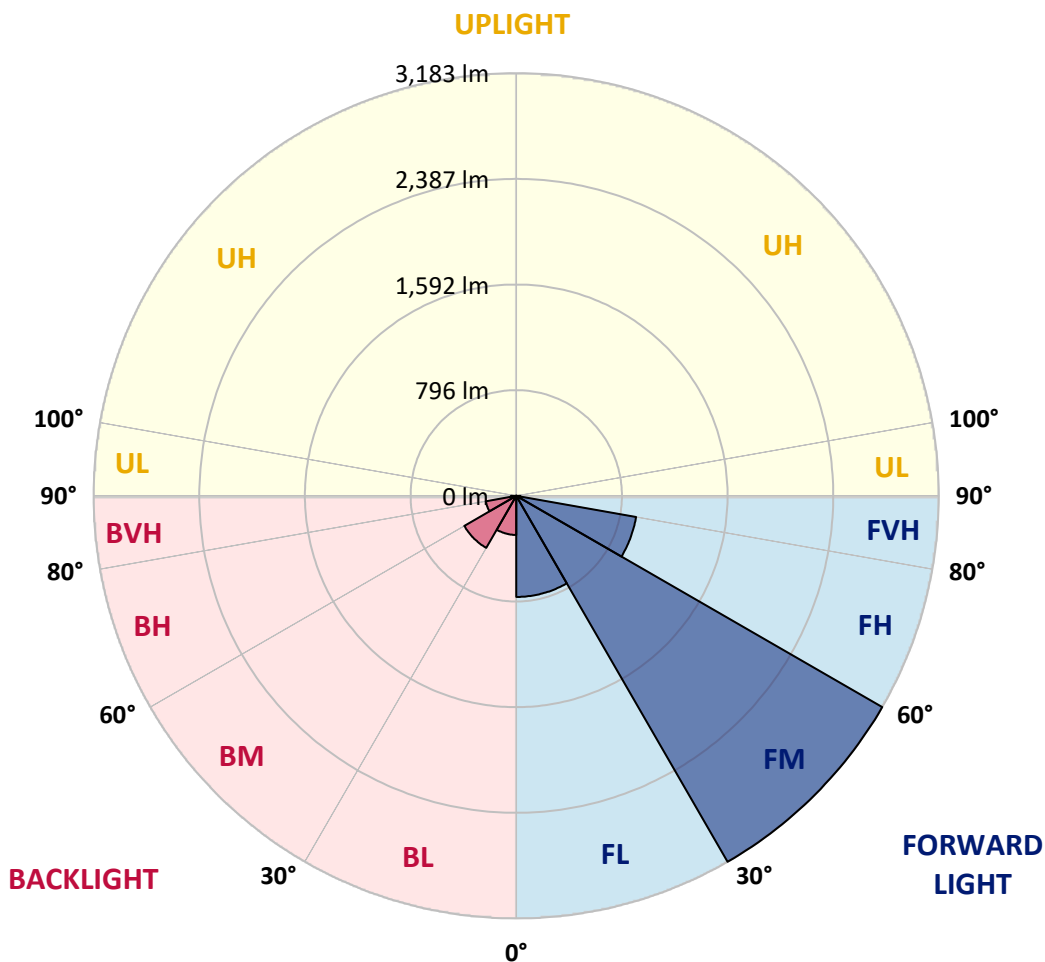


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	761.4	12.9			
FM	(30°-60°)	3183.3	53.9			
FH	(60°-80°)	916.5	15.5			G1/1800
FVH	(80°-90°)	30.9	0.5			G1/100
BL	(0°-30°)	294.6	5.0	B1/500		
BM	(30°-60°)	452.3	7.7	B1/1000		
BH	(60°-80°)	232.8	3.9	B1/500		G1/500
BVH	(80°-90°)	39.2	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1
2.5°	1505.5	1519.3	1513.2	1492.1	1475.8	1452.9	1427.3	1419.5	1392.5	1362.3	1325.9
5°	1743.8	1736.8	1726.9	1694.0	1659.2	1618.8	1554.6	1544.5	1484.3	1415.9	1343.6
7.5°	1879.5	1878.8	1873.0	1853.7	1822.0	1769.1	1691.7	1679.8	1589.0	1478.9	1366.7
10°	1859.7	1858.3	1868.1	1888.2	1897.7	1886.8	1821.6	1809.6	1698.0	1548.5	1393.5
12.5°	1747.8	1748.6	1764.3	1806.5	1864.0	1933.1	1922.5	1916.6	1811.2	1627.4	1426.0
15°	1660.7	1662.5	1674.9	1711.7	1779.5	1904.8	1983.9	1985.9	1920.7	1714.3	1464.0
17.5°	1622.5	1626.3	1632.0	1657.8	1720.0	1848.6	1998.5	2009.5	2016.6	1804.5	1500.6
20°	1634.7	1638.3	1639.9	1656.4	1707.4	1814.4	1988.3	2008.0	2090.1	1889.4	1537.2
22.5°	1689.3	1691.5	1692.6	1696.8	1736.4	1824.2	1981.6	2002.4	2143.3	1965.6	1564.8
25°	1779.9	1778.3	1771.8	1766.3	1792.9	1862.8	1997.1	2016.8	2186.6	2034.6	1582.9
27.5°	1888.4	1886.4	1873.8	1858.7	1874.0	1922.9	2041.6	2057.2	2225.4	2099.2	1592.0
30°	2018.6	2013.3	1989.6	1971.7	1977.6	2013.1	2114.9	2129.1	2285.3	2172.6	1600.9
32.5°	2169.1	2163.4	2129.1	2099.5	2099.5	2129.1	2190.5	2202.2	2336.1	2255.5	1615.4
35°	2357.6	2350.5	2305.8	2256.1	2242.1	2257.1	2293.4	2301.8	2427.5	2359.9	1641.6
37.5°	2579.9	2570.3	2512.4	2445.8	2415.1	2414.3	2440.5	2457.6	2573.6	2497.0	1686.1
40°	2802.7	2796.0	2745.4	2693.0	2632.9	2613.6	2654.0	2659.3	2764.5	2667.2	1742.9
42.5°	2975.0	2973.8	2964.4	2971.3	2909.8	2870.8	2902.5	2906.7	2997.7	2851.5	1803.5
45°	3066.0	3068.0	3113.3	3213.7	3236.4	3208.0	3223.6	3224.8	3264.3	3037.3	1858.9
47.5°	2993.1	3003.6	3118.2	3342.7	3528.9	3623.4	3597.4	3612.4	3522.6	3197.0	1902.4
50°	2708.9	2721.9	2916.9	3285.2	3665.5	4025.4	4011.8	4008.4	3731.1	3314.0	1926.0
52.5°	2356.8	2367.0	2527.9	2986.4	3565.3	4247.7	4372.6	4354.7	3916.3	3401.6	1930.4
55°	1820.7	1836.6	1990.8	2389.9	3160.2	4162.7	4637.9	4621.8	4085.1	3447.5	1925.2
57°	1294.4	1311.1	1464.2	1824.0	2658.5	3868.8	4664.3	4681.4	4176.4	3455.2	1931.0
57.5°	1155.1	1172.1	1323.9	1673.3	2502.1	3762.6	4641.5	4670.0	4192.8	3454.0	1934.3
60°	581.6	588.1	684.8	934.0	1581.6	3041.8	4344.8	4418.1	4207.6	3394.3	1948.3
62.5°	361.6	356.9	353.9	430.3	769.5	2017.2	3732.3	3873.5	3923.9	3249.6	1914.4
65°	317.9	309.2	275.7	269.6	339.9	979.7	2810.6	2986.4	3317.5	3021.7	1833.5
67.5°	298.6	290.1	252.3	229.5	229.8	388.4	1745.0	1942.8	2584.3	2636.4	1642.8
70°	278.7	271.0	235.6	208.8	195.6	215.1	802.8	952.9	1684.6	2072.2	1373.0
72.5°	253.1	247.8	214.3	186.7	172.7	161.1	307.4	363.0	975.3	1391.7	953.5
75°	226.3	221.4	192.8	166.4	149.3	126.8	173.1	186.5	495.5	712.0	469.5
77.5°	196.8	194.0	171.5	147.1	133.5	105.0	122.5	129.0	212.5	305.3	235.4
80°	156.6	162.1	149.9	131.0	118.4	84.1	86.7	91.0	123.7	149.1	133.7
82.5°	102.0	111.5	117.4	106.4	97.5	66.2	62.4	64.2	80.6	91.0	58.1
85°	42.5	47.7	77.2	69.7	64.8	48.3	41.8	42.7	50.0	51.8	23.8
87.5°	18.9	20.1	33.9	31.9	27.4	16.7	17.9	19.5	26.6	25.2	9.1
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°	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1
2.5°	1312.3	1295.2	1266.0	1233.7	1207.3	1186.1	1164.8	1150.2	1133.1	1124.0	1119.3
5°	1313.3	1279.8	1218.2	1155.1	1098.6	1047.0	997.8	960.0	924.7	905.6	900.3
7.5°	1317.6	1267.2	1167.6	1063.6	963.3	871.7	801.0	756.7	724.8	710.6	706.5
10°	1321.0	1252.4	1105.1	951.1	814.6	721.8	666.9	642.1	631.2	629.3	627.5
12.5°	1329.1	1237.1	1039.3	833.7	699.0	634.8	615.7	614.1	617.1	621.6	621.6
15°	1341.9	1222.1	964.1	732.9	625.5	602.9	606.8	615.7	624.0	631.0	632.0
17.5°	1351.3	1203.6	883.3	652.3	586.3	592.4	606.2	618.8	627.3	634.0	634.6
20°	1358.0	1175.0	796.9	590.7	563.7	582.6	599.9	611.0	616.9	623.6	624.7
22.5°	1354.5	1136.6	720.3	546.6	545.4	568.4	584.8	598.2	593.8	587.3	591.5
25°	1337.9	1083.8	641.5	513.7	526.1	549.3	569.6	560.7	545.6	542.8	544.4
27.5°	1308.2	1016.3	568.6	483.3	503.8	531.6	530.4	521.5	516.2	512.5	514.8
30°	1276.3	943.2	504.8	456.7	479.0	502.0	497.3	497.1	491.8	485.9	488.8
32.5°	1244.8	869.6	454.2	434.7	460.3	463.4	473.5	476.6	466.2	453.8	453.0
35°	1217.4	800.2	415.8	414.8	437.8	438.2	453.0	448.7	422.9	410.1	410.1
37.5°	1196.9	730.9	386.6	396.9	408.1	418.7	426.2	408.5	404.2	397.1	396.9
40°	1188.0	670.0	368.3	383.3	387.2	400.6	381.3	388.2	390.2	386.6	386.6
42.5°	1178.6	616.9	352.4	373.0	372.4	370.5	360.8	369.7	377.8	378.0	377.4
45°	1169.3	571.2	338.4	350.8	359.4	339.6	341.5	351.0	362.4	366.5	366.5
47.5°	1158.9	535.1	325.6	327.5	340.7	327.5	326.0	333.4	346.8	353.3	354.7
50°	1136.2	502.6	311.0	306.9	310.6	315.1	316.3	319.7	334.6	344.9	347.4
52.5°	1104.7	473.5	292.3	288.1	288.1	304.9	310.6	311.6	324.2	336.6	339.0
55°	1078.5	455.0	273.0	272.2	271.4	294.1	303.9	305.5	314.3	324.0	325.2
57°	1080.3	453.6	258.2	259.0	258.8	283.2	297.6	301.1	305.5	313.9	315.3
57.5°	1081.3	454.6	254.9	255.3	255.1	280.1	295.8	299.6	303.1	311.8	313.2
60°	1096.5	457.3	241.7	237.3	238.3	263.9	285.4	290.3	292.5	304.1	305.9
62.5°	1074.0	445.5	231.2	220.4	220.4	246.8	271.0	278.7	282.2	297.8	300.9
65°	1008.6	412.4	218.8	201.3	203.3	229.8	253.7	266.3	271.6	291.1	294.3
67.5°	907.6	374.0	205.6	184.2	186.3	211.9	235.8	249.5	257.8	283.8	286.4
70°	776.2	327.1	187.7	166.2	168.6	192.4	214.7	230.2	242.5	276.9	277.7
72.5°	572.2	268.1	162.7	146.3	148.9	169.6	193.4	211.3	227.9	259.6	259.2
75°	340.3	209.6	135.1	126.1	128.0	147.3	174.1	195.8	220.8	252.9	256.8
77.5°	206.4	157.8	110.1	105.6	107.9	127.6	160.3	183.4	217.8	238.5	237.3
80°	124.7	112.7	88.0	85.1	87.4	109.1	148.3	174.1	190.3	203.7	203.7
82.5°	65.2	68.9	64.6	62.4	65.4	88.6	134.9	151.9	168.2	144.4	134.9
85°	26.6	36.0	39.2	39.0	40.8	61.3	116.4	130.0	108.5	103.0	105.4
87.5°	8.9	15.2	19.1	16.5	17.3	38.6	80.6	62.8	74.6	52.0	49.4
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)