

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: P364265

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P364265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: NVN-SA1C-830-U-AFL-HSS
Description: NAVION ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4843 lumens
Efficiency: N/A
Efficacy: 82.1 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

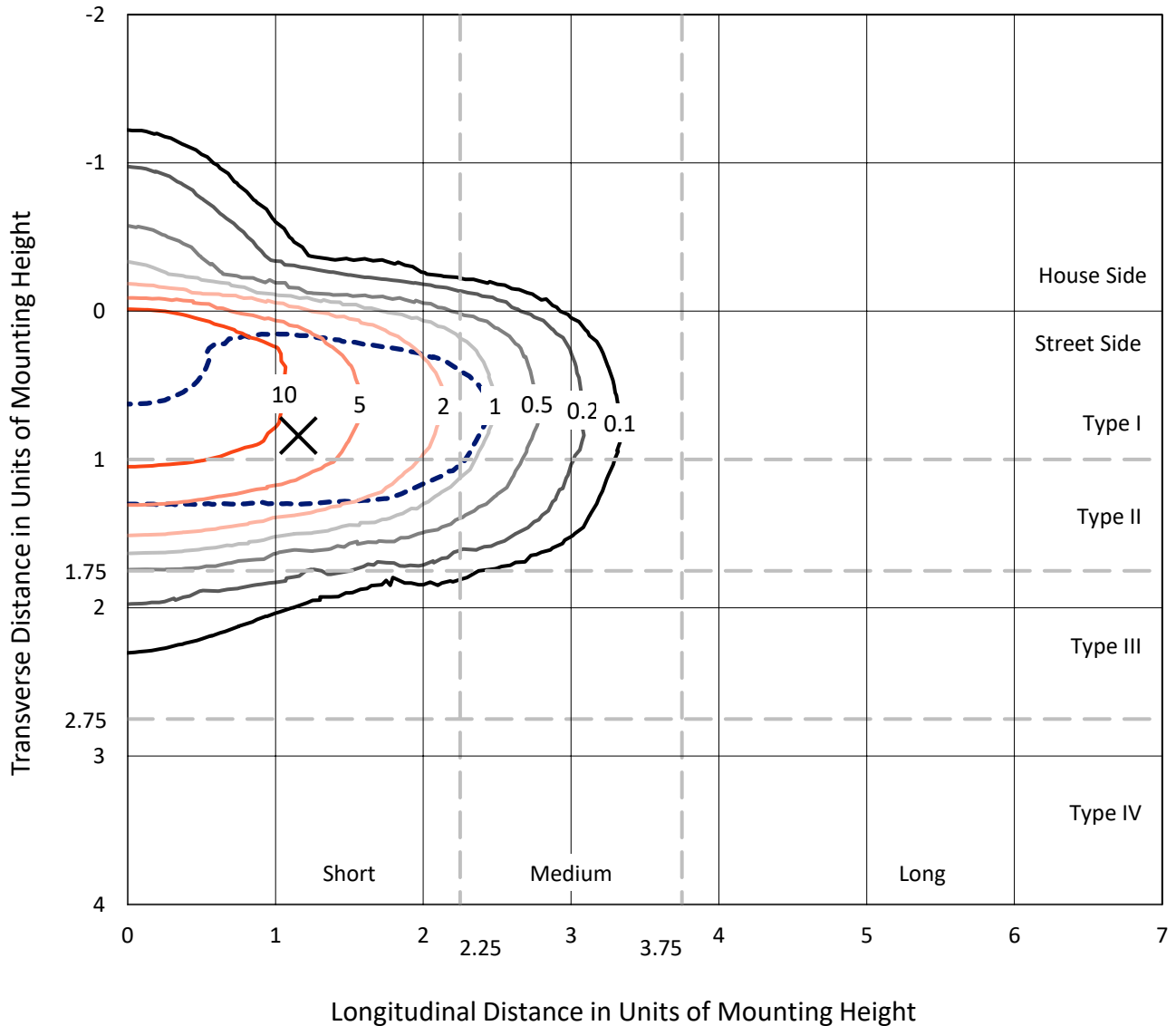
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

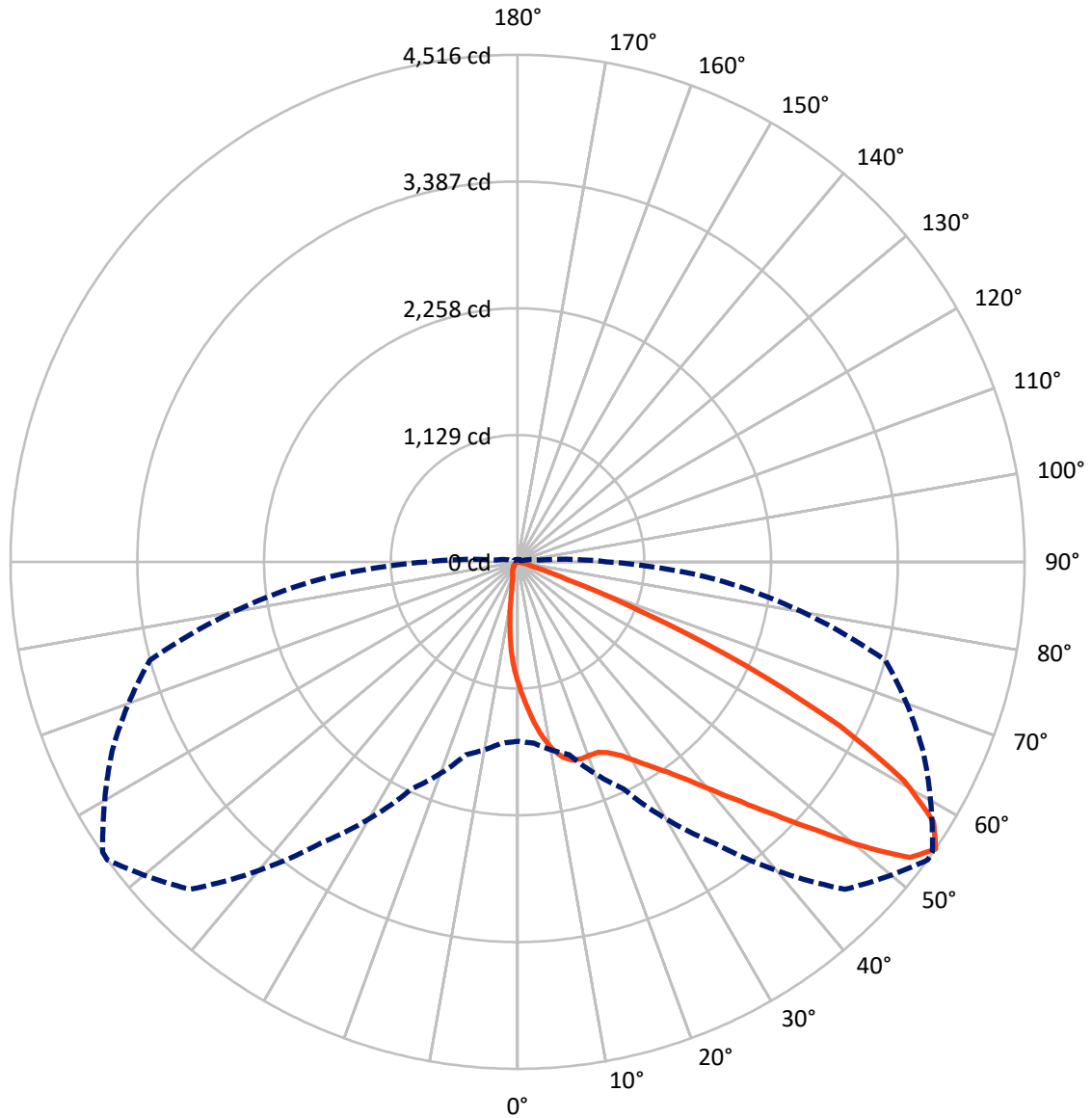
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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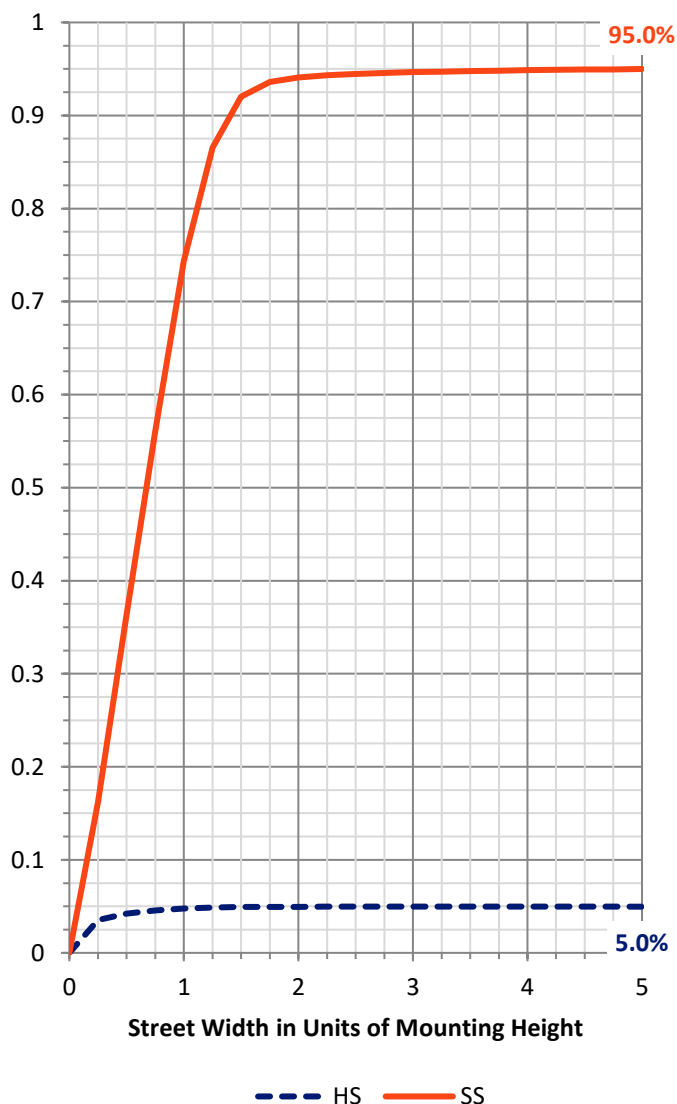
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	241.6	0.0	241.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4601.4	0.0	4601.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	4843.0	0.0	4843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	2.1
10°-20°	273.9	5.7
20°-30°	467.7	9.7
30°-40°	750.6	15.5
40°-50°	1199.4	24.8
50°-60°	1285.2	26.5
60°-70°	659.9	13.6
70°-80°	99.9	2.1
80°-90°	6.5	0.1
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°	4843.0	100.0
0°-180°	4843.0	100.0

Coefficient of Utilization

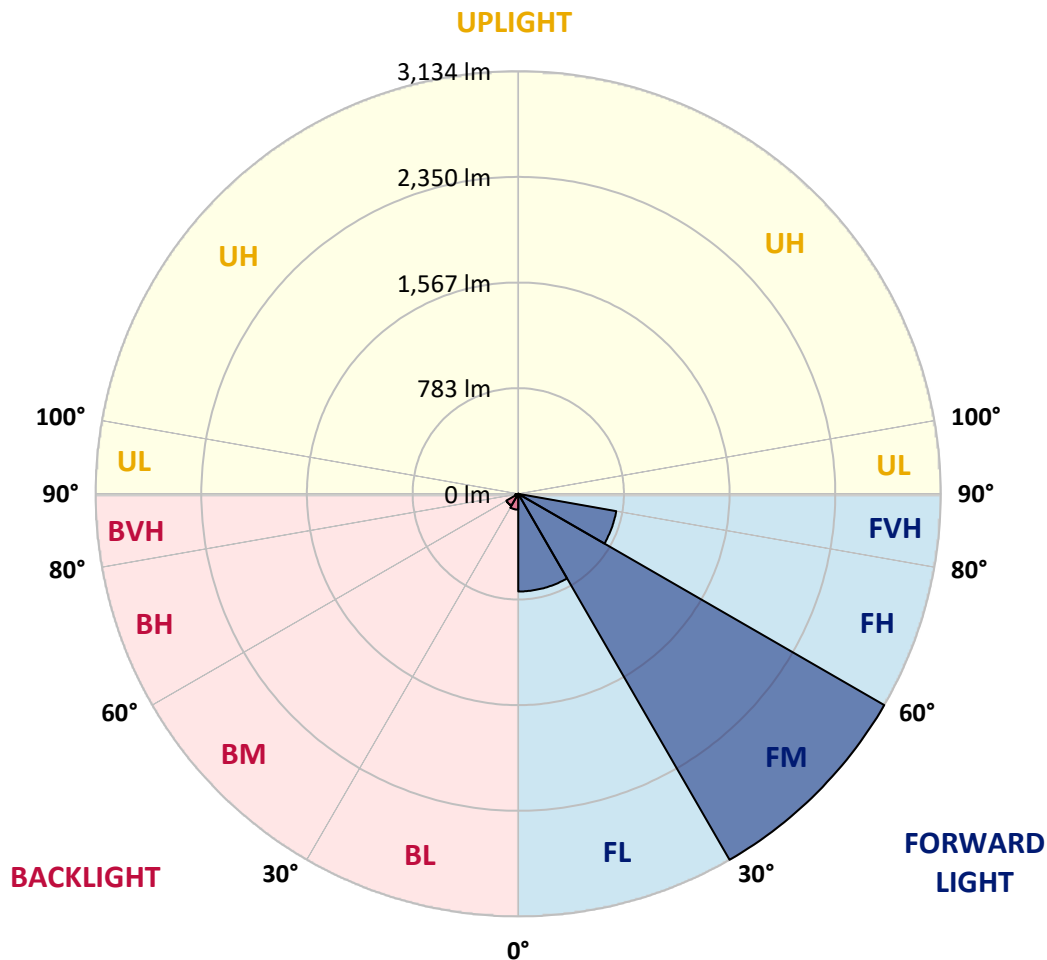


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.9	14.9			
FM (30°-60°)	3133.6	64.7			
FH (60°-80°)	737.5	15.2			G1/1800
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	117.6	2.4	B1/500		
BM (30°-60°)	101.5	2.1	B0/220		
BH (60°-80°)	22.3	0.5	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1084.6	1084.6	1084.6	1084.6	1084.6	1084.6	1084.6	1084.6	1084.6	1084.6	1084.6
2.5°	1361.1	1340.8	1341.5	1332.3	1298.6	1272.2	1244.8	1238.4	1195.7	1150.9	1107.9
5°	1596.4	1581.6	1578.0	1560.2	1513.4	1463.8	1410.7	1398.4	1314.9	1223.3	1133.2
7.5°	1717.3	1717.5	1714.6	1708.1	1678.8	1630.7	1565.9	1552.9	1439.4	1301.9	1159.5
10°	1682.2	1690.1	1706.4	1728.0	1750.4	1744.3	1695.6	1683.8	1560.4	1385.2	1188.8
12.5°	1600.2	1601.2	1619.4	1654.8	1719.2	1785.3	1786.1	1782.1	1676.1	1472.2	1221.0
15°	1559.4	1563.4	1570.1	1592.9	1653.9	1759.8	1835.5	1841.1	1782.1	1564.6	1255.3
17.5°	1586.2	1591.8	1586.2	1588.9	1624.2	1719.4	1844.1	1858.5	1874.8	1656.0	1287.7
20°	1658.7	1664.0	1653.9	1642.9	1649.8	1707.7	1838.0	1857.4	1947.4	1737.2	1314.9
22.5°	1756.6	1758.7	1743.5	1725.3	1720.2	1747.4	1843.0	1863.1	2005.5	1810.6	1332.1
25°	1864.3	1866.2	1847.2	1826.3	1814.4	1825.4	1884.2	1899.3	2056.8	1880.7	1341.9
27.5°	1981.7	1983.3	1959.5	1933.8	1920.0	1920.4	1952.2	1968.3	2111.3	1960.5	1349.8
30°	2105.7	2104.9	2082.9	2047.1	2029.6	2029.1	2050.1	2066.4	2190.4	2063.0	1360.7
32.5°	2245.0	2243.3	2212.2	2167.8	2147.9	2150.9	2169.5	2178.9	2288.5	2172.2	1380.2
35°	2428.4	2423.6	2376.5	2321.5	2284.9	2283.9	2299.6	2307.1	2413.6	2304.4	1412.6
37.5°	2666.4	2662.0	2598.2	2518.3	2466.9	2447.7	2466.3	2475.9	2592.0	2474.0	1464.7
40°	2901.1	2896.7	2858.8	2785.6	2706.4	2660.1	2674.8	2685.0	2814.7	2679.8	1530.3
42.5°	3063.0	3066.7	3079.9	3086.0	3011.7	2914.7	2921.4	2932.0	3048.7	2899.8	1605.4
45°	3105.6	3113.8	3188.2	3334.4	3362.3	3286.5	3216.5	3222.3	3286.5	3119.8	1680.5
47.5°	2977.4	2992.5	3136.2	3408.1	3643.6	3697.1	3564.5	3556.8	3514.7	3297.8	1733.8
50°	2686.1	2699.9	2886.0	3288.2	3728.9	4089.0	3981.5	3958.7	3714.9	3404.3	1752.7
52.5°	2264.4	2281.2	2432.4	2910.9	3568.1	4263.9	4376.4	4357.4	3861.7	3412.7	1755.8
55°	1599.1	1619.4	1779.4	2231.0	3058.4	4124.8	4516.3	4510.7	3983.6	3390.5	1762.5
57.5°	898.7	913.3	1085.9	1430.1	2240.0	3592.7	4370.1	4407.6	4057.2	3352.0	1772.5
60°	399.1	403.0	492.3	711.9	1311.4	2745.7	3951.6	4014.8	3994.1	3300.6	1789.5
62.5°	221.3	217.9	217.9	295.9	569.9	1699.7	3222.3	3326.7	3724.5	3239.7	1790.3
65°	173.4	170.2	161.3	162.5	217.1	754.4	2231.4	2416.9	3212.5	3061.3	1730.1
67.5°	147.0	144.3	135.3	131.8	134.9	248.9	1226.0	1418.6	2437.6	2597.6	1498.5
70°	124.2	122.4	117.7	113.4	105.4	123.0	469.1	600.0	1502.1	1728.0	1022.9
72.5°	100.0	99.1	100.8	97.0	87.4	82.0	160.4	194.3	674.7	771.1	421.4
75°	86.2	85.8	86.6	82.8	71.9	57.1	81.6	89.1	190.3	188.7	85.3
77.5°	56.1	56.7	71.7	70.1	61.9	38.1	42.2	45.6	57.7	43.3	25.9
80°	35.8	35.3	36.4	58.1	55.6	29.1	21.1	22.2	27.8	21.3	12.5
82.5°	21.8	21.3	23.8	27.2	28.0	20.3	13.0	13.2	17.4	13.8	6.7
85°	1.9	2.5	14.4	13.4	9.6	6.3	6.3	6.7	9.2	8.2	3.8
87.5°	0.0	0.0	2.5	3.8	2.1	2.3	2.3	2.5	3.6	3.6	1.9
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°	1084.6	1084.6	1084.6	1084.6	1084.6	1084.6	1084.6	1084.6	1084.6	1084.6	1084.6
2.5°	1085.5	1063.7	1019.8	977.6	941.8	907.3	868.0	829.1	810.9	803.5	796.0
5°	1087.4	1042.6	952.0	860.9	766.3	681.2	608.6	534.2	496.9	480.6	473.1
7.5°	1089.9	1021.7	875.3	722.2	569.9	454.5	353.7	288.8	260.8	256.4	245.5
10°	1090.3	996.4	786.2	569.1	382.1	274.0	210.8	177.4	165.0	162.9	159.4
12.5°	1091.1	966.5	687.3	421.4	254.7	183.2	152.5	141.4	138.0	137.8	137.8
15°	1093.6	935.1	584.6	303.7	183.0	145.1	133.9	129.5	128.2	128.8	128.6
17.5°	1093.6	898.1	483.8	226.3	147.9	130.5	124.2	121.3	120.9	121.5	121.7
20°	1085.7	853.1	391.3	176.1	131.1	121.1	115.4	112.7	111.7	112.1	112.3
22.5°	1066.7	797.9	316.0	145.8	120.1	112.5	106.5	102.3	100.6	100.8	100.8
25°	1037.0	732.4	247.2	126.1	111.1	103.3	96.2	91.4	90.4	90.1	90.6
27.5°	998.9	660.1	196.8	111.1	100.4	93.1	86.0	82.0	81.1	81.4	81.6
30°	961.4	585.0	155.2	98.3	88.5	81.6	76.1	74.2	74.2	74.9	75.1
32.5°	927.1	512.8	122.8	87.2	77.8	71.5	68.4	68.2	69.2	69.6	69.9
35°	897.7	446.1	101.6	78.6	69.4	64.0	63.0	63.8	65.0	65.9	66.1
37.5°	876.7	386.5	88.9	71.5	63.0	58.6	58.4	60.0	61.7	63.6	64.0
40°	868.0	336.1	80.1	65.3	57.7	54.4	53.8	56.1	59.2	61.9	62.3
42.5°	860.6	294.9	72.6	59.2	53.5	48.7	48.5	51.5	55.2	57.9	58.6
45°	854.4	261.9	65.7	52.7	48.1	41.8	42.5	46.2	49.1	52.1	52.7
47.5°	841.4	234.7	58.1	45.8	39.7	35.8	37.0	40.4	42.7	47.1	47.7
50°	818.2	212.5	50.4	37.4	32.4	31.0	32.8	35.1	38.1	41.8	42.2
52.5°	802.5	195.8	43.7	31.4	26.8	27.2	29.1	29.9	31.6	33.0	32.6
55°	793.5	186.6	38.3	27.2	22.8	24.1	24.5	23.4	22.6	21.1	20.5
57.5°	792.5	178.2	34.1	23.6	20.1	20.7	19.2	15.7	12.8	11.1	10.7
60°	790.8	167.9	30.7	19.9	17.8	16.9	13.8	8.6	6.1	5.6	5.6
62.5°	772.6	152.1	28.2	16.7	15.1	12.8	7.9	4.0	3.3	3.6	3.6
65°	714.7	129.9	25.7	13.6	11.9	9.2	4.0	2.3	1.3	1.5	1.5
67.5°	607.6	103.5	23.0	10.5	9.0	5.9	2.3	1.0	0.0	0.0	0.0
70°	406.8	64.2	19.5	7.3	5.9	3.6	1.7	0.2	0.0	0.0	0.0
72.5°	156.0	34.7	15.7	4.4	3.8	2.5	1.0	0.0	0.0	0.0	0.0
75°	35.1	22.8	10.9	3.1	2.7	1.7	0.4	0.0	0.0	0.0	0.0
77.5°	13.4	16.5	6.3	2.1	1.9	1.0	0.0	0.0	0.0	0.0	0.0
80°	6.5	9.8	2.9	1.3	1.0	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	3.3	3.8	1.3	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	1.9	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.6	0.2	0.2	0.0	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)