

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P882728

Luminaire Tested: **NVN-SB2D-727-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2D-727-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14741 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

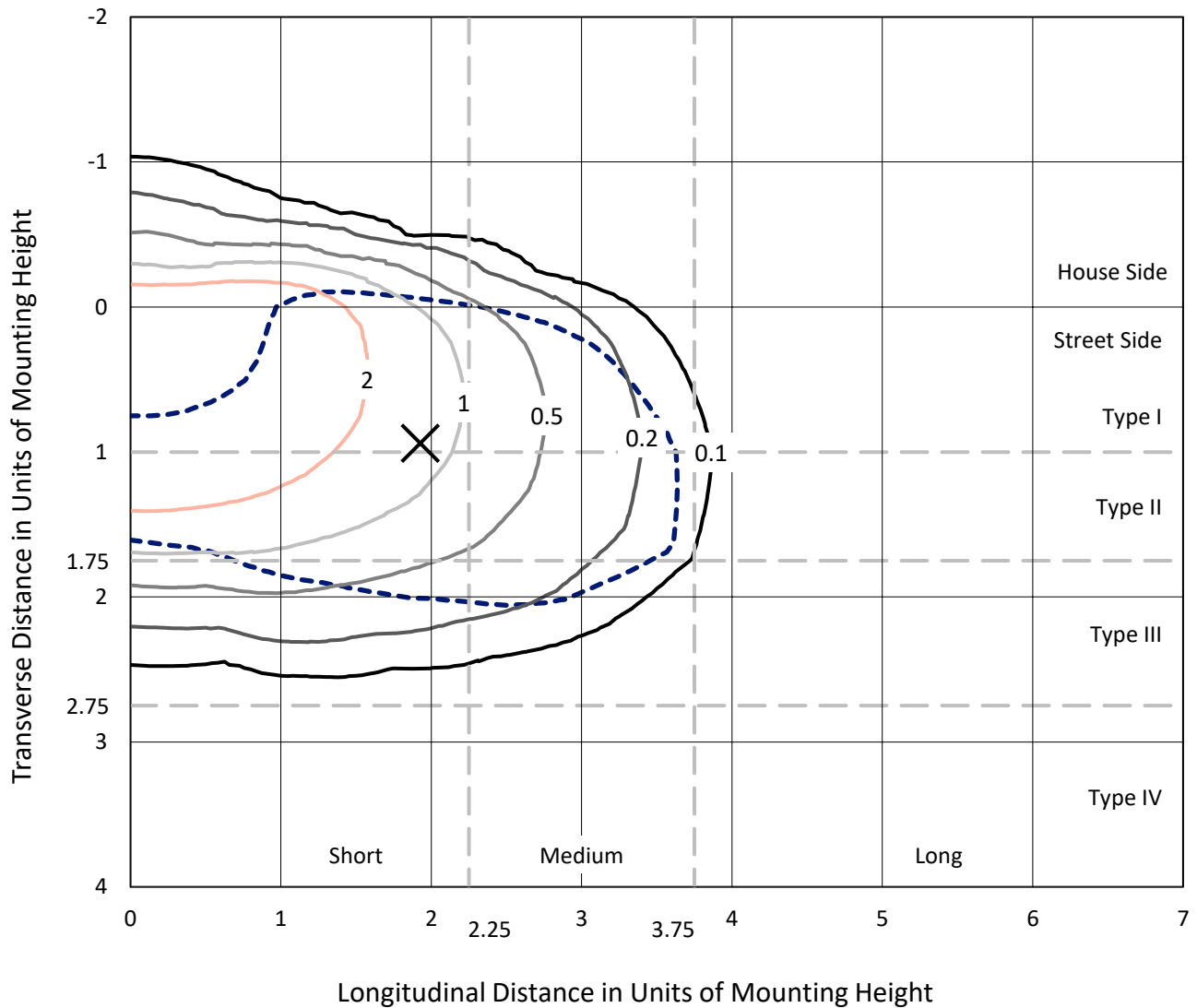
Input Watts (W): 147.6
Input Voltage (V): 120.0
Input Current (Ain): 1.234
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

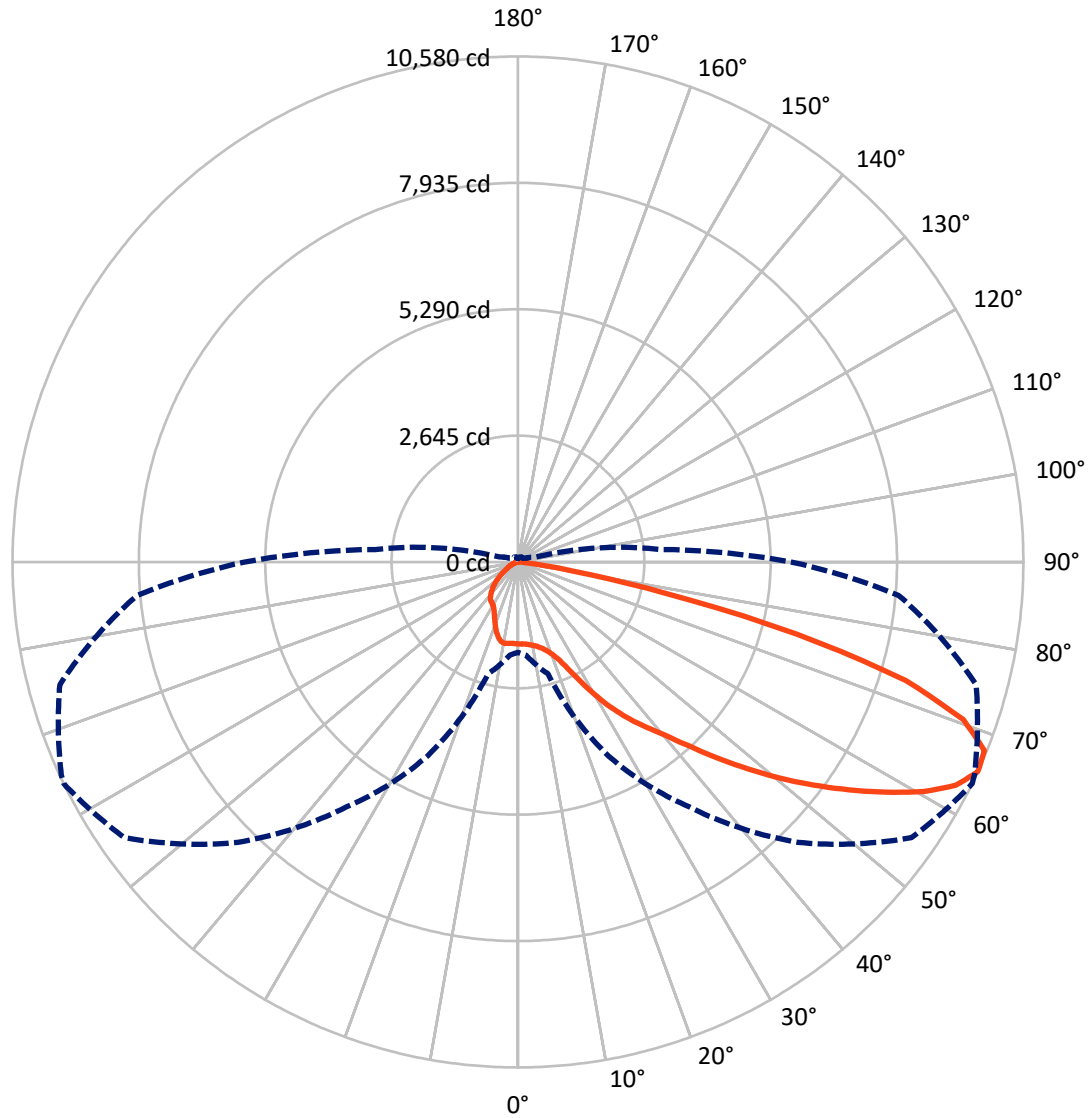
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1971.3	0.0	1971.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12769.7	0.0	12769.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	14741.0	0.0	14741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	1.1
10°-20°	429.0	2.9
20°-30°	813.0	5.5
30°-40°	1645.1	11.2
40°-50°	2802.4	19.0
50°-60°	3811.1	25.9
60°-70°	3578.8	24.3
70°-80°	1433.8	9.7
80°-90°	69.5	0.5
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°	14741.0	100.0
0°-180°	14741.0	100.0

Coefficient of Utilization



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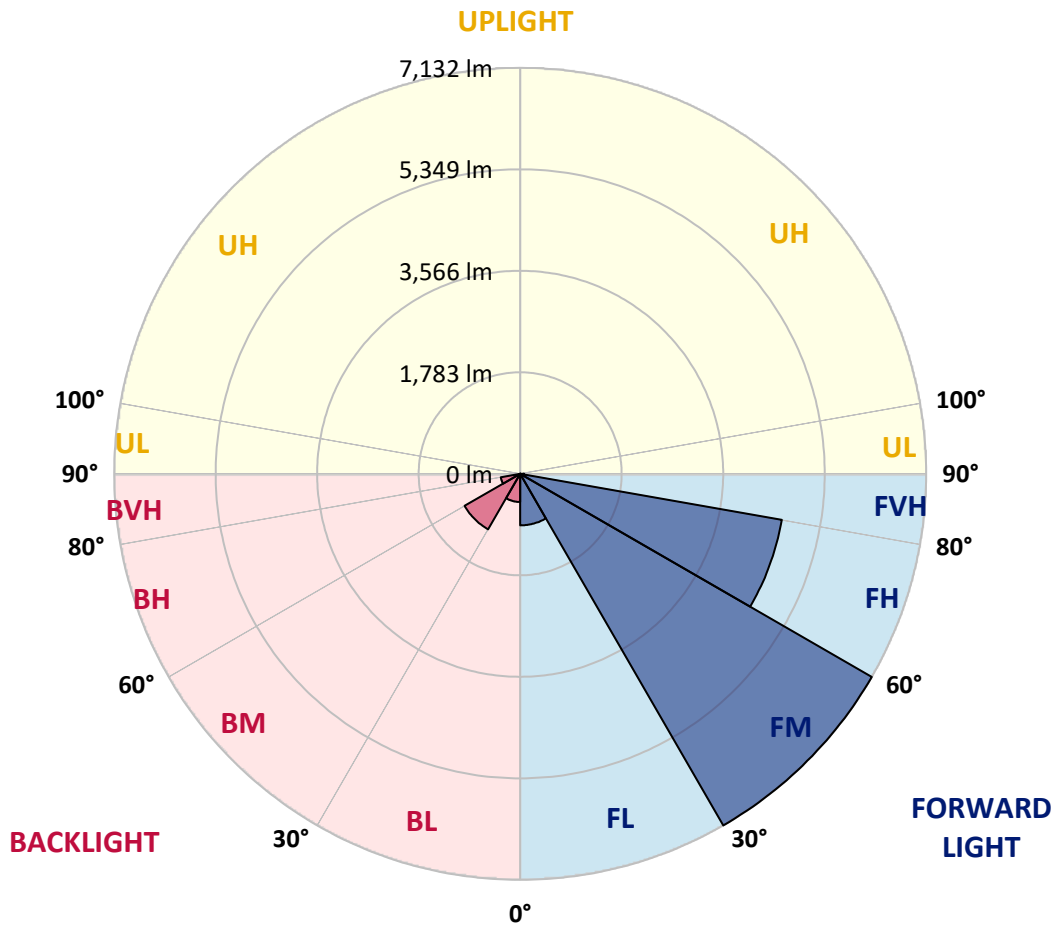
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	905.3	6.1			
FM (30°-60°)	7131.7	48.4			
FH (60°-80°)	4666.7	31.7			G2/5000
FVH (80°-90°)	66.1	0.4			G1/100
BL (0°-30°)	494.9	3.4	B1/500		
BM (30°-60°)	1127.0	7.6	B2/2500		
BH (60°-80°)	346.0	2.3	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5
2.5°	1708.6	1720.5	1717.5	1714.5	1713.5	1715.5	1716.5	1715.5	1715.5	1715.5	1716.5
5°	1676.0	1685.9	1685.9	1692.8	1702.7	1714.5	1723.4	1725.4	1727.4	1730.3	1729.4
7.5°	1613.7	1621.6	1627.6	1650.3	1675.0	1706.6	1733.3	1747.1	1749.1	1760.0	1763.9
10°	1571.2	1581.1	1591.0	1614.7	1650.3	1697.7	1743.2	1776.8	1781.7	1807.4	1819.3
12.5°	1569.3	1579.1	1592.0	1617.7	1659.2	1709.6	1764.9	1813.4	1822.2	1859.8	1884.5
15°	1590.0	1601.9	1613.7	1645.4	1689.8	1751.1	1810.4	1870.7	1879.6	1932.9	1959.6
17.5°	1632.5	1648.3	1657.2	1688.8	1736.3	1804.5	1882.5	1951.7	1959.6	2021.9	2055.5
20°	1716.5	1735.3	1738.2	1763.9	1810.4	1883.5	1976.4	2062.4	2072.3	2143.4	2181.0
22.5°	1890.4	1917.1	1893.4	1906.2	1947.7	2020.9	2121.7	2230.4	2244.2	2325.2	2358.8
25°	2196.8	2234.3	2173.1	2151.3	2169.1	2245.2	2371.7	2509.0	2524.9	2590.1	2606.9
27.5°	2798.6	2750.2	2657.3	2566.4	2513.0	2556.5	2698.8	2868.8	2888.5	2951.8	2932.0
30°	3459.7	3417.2	3291.7	3090.1	2963.6	2956.7	3088.1	3277.9	3300.6	3360.9	3300.6
32.5°	4121.8	4081.3	3944.9	3696.9	3477.5	3368.8	3459.7	3670.2	3682.0	3720.6	3631.6
35°	4773.0	4731.5	4595.1	4341.2	4071.4	3824.3	3806.6	4043.7	4047.7	4088.2	3955.8
37.5°	5428.2	5393.6	5248.3	4999.3	4733.5	4392.6	4227.5	4397.5	4402.4	4442.0	4304.6
40°	5895.6	5910.4	5810.6	5617.9	5389.7	5017.1	4699.9	4774.0	4744.4	4810.6	4728.5
42.5°	6296.8	6326.5	6239.5	6142.7	6010.2	5682.2	5284.9	5272.1	5224.6	5260.2	5175.2
45°	6643.7	6668.4	6590.3	6567.6	6564.6	6334.4	5924.3	5847.2	5781.0	5774.1	5672.3
47.5°	6771.2	6818.6	6852.2	6928.3	7076.5	6979.7	6585.4	6465.8	6391.7	6337.3	6176.3
50°	6819.6	6870.0	6984.6	7206.0	7556.8	7598.3	7243.5	7109.1	7018.2	6919.4	6682.2
52.5°	6754.4	6844.3	6998.5	7371.0	7879.9	8094.4	7875.0	7757.4	7653.6	7492.6	7140.8
55°	6370.0	6459.9	6775.1	7369.0	8041.0	8442.2	8471.9	8419.5	8302.9	8048.9	7511.3
57.5°	5559.6	5693.0	6192.1	7118.0	8038.0	8741.6	9056.9	9094.4	8964.0	8600.3	7802.8
60°	4437.0	4617.9	5226.6	6561.7	7790.0	8903.7	9569.8	9757.5	9619.2	9143.8	8039.0
62.5°	3096.0	3305.5	3881.7	5690.1	7222.8	8787.1	9944.3	10291.1	10186.4	9630.0	8129.9
65°	1888.5	1955.7	2420.1	4477.5	6258.3	8298.9	10059.9	10579.7	10545.1	9927.5	7995.5
67.5°	1258.0	1314.3	1447.7	3070.3	4858.0	7323.6	9783.2	10529.3	10539.2	9879.1	7503.4
70°	758.0	806.4	893.3	1785.7	3148.4	5796.8	8926.4	9887.0	9944.3	9231.8	6570.6
72.5°	312.3	344.9	423.9	809.3	1630.5	3679.1	7108.1	8488.7	8622.1	7762.3	5042.8
75°	176.9	193.7	249.0	406.2	707.6	1714.5	4305.6	6026.1	6222.7	5350.1	3033.8
77.5°	117.6	125.5	161.1	262.9	398.2	585.0	1840.0	3139.5	3515.0	2922.1	1313.3
80°	79.1	86.0	110.7	175.9	258.9	251.0	586.0	1163.1	1430.9	1004.0	320.2
82.5°	53.4	54.4	79.1	115.6	164.0	121.5	172.9	361.7	454.6	290.5	121.5
85°	30.6	29.6	58.3	67.2	73.1	50.4	52.4	108.7	142.3	122.5	69.2
87.5°	4.0	5.9	22.7	17.8	9.9	10.9	10.9	18.8	27.7	29.6	14.8
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°	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5	1714.5
2.5°	1716.5	1715.5	1712.6	1709.6	1702.7	1698.7	1700.7	1698.7	1697.7	1698.7	1702.7
5°	1729.4	1726.4	1718.5	1708.6	1694.8	1678.0	1667.1	1651.3	1636.5	1627.6	1629.5
7.5°	1763.9	1761.0	1750.1	1722.4	1678.0	1607.8	1543.6	1487.2	1444.8	1420.0	1421.0
10°	1819.3	1814.3	1797.5	1736.3	1619.7	1466.5	1339.0	1233.3	1164.1	1131.5	1128.5
12.5°	1884.5	1878.6	1848.9	1723.4	1509.0	1269.8	1093.9	976.3	912.1	883.5	880.5
15°	1961.6	1953.7	1895.4	1662.2	1347.9	1052.4	891.4	803.4	761.9	736.2	737.2
17.5°	2057.4	2043.6	1930.0	1570.3	1173.0	886.4	766.8	700.6	664.1	639.4	637.4
20°	2182.0	2159.2	1957.6	1460.6	1011.9	781.7	682.8	627.5	599.8	578.1	574.1
22.5°	2355.9	2323.3	1991.2	1342.0	898.3	709.5	620.6	580.1	557.3	532.6	528.7
25°	2571.3	2532.8	2032.7	1232.3	820.2	647.3	575.1	541.5	514.9	486.2	483.2
27.5°	2872.7	2803.5	2082.1	1142.4	753.0	593.9	533.6	496.1	465.4	441.7	436.8
30°	3208.7	3095.1	2125.6	1088.0	691.7	544.5	479.3	441.7	413.1	396.3	393.3
32.5°	3526.9	3372.7	2154.3	1064.3	636.4	488.2	420.0	379.5	357.7	352.8	355.8
35°	3827.3	3623.7	2151.3	1041.6	587.0	431.8	361.7	320.2	303.4	306.3	306.3
37.5°	4173.2	3891.5	2130.6	1006.0	546.5	380.5	311.3	274.7	259.9	260.9	264.8
40°	4575.4	4200.8	2117.7	938.8	502.0	333.0	269.8	240.1	229.3	225.3	224.3
42.5°	5004.3	4500.3	2119.7	862.7	446.7	290.5	241.1	216.4	206.5	203.6	202.6
45°	5435.1	4785.9	2122.7	783.6	388.4	257.9	220.4	199.6	193.7	189.7	189.7
47.5°	5840.3	5029.0	2067.3	698.7	331.0	233.2	203.6	189.7	184.8	179.9	179.9
50°	6217.8	5191.0	1933.9	599.8	285.6	213.5	190.7	180.8	175.9	171.0	171.0
52.5°	6511.3	5216.7	1713.5	498.1	254.0	198.6	182.8	173.9	168.0	163.1	162.1
55°	6641.7	5055.6	1400.3	403.2	229.3	185.8	174.9	166.0	159.1	154.2	153.2
57.5°	6608.1	4716.7	1092.0	324.1	205.5	172.9	165.0	159.1	151.2	143.3	142.3
60°	6443.1	4263.1	823.2	269.8	183.8	159.1	154.2	149.2	138.3	126.5	124.5
62.5°	6157.5	3692.9	587.0	223.3	160.1	143.3	141.3	137.4	121.5	99.8	97.8
65°	5720.7	3000.2	395.3	185.8	137.4	125.5	126.5	119.6	98.8	74.1	72.1
67.5°	5082.3	2193.8	253.0	152.2	114.6	104.7	105.7	101.8	84.0	63.2	60.3
70°	4269.0	1452.7	165.0	115.6	91.9	81.0	87.0	88.0	71.2	51.4	49.4
72.5°	3129.6	857.8	115.6	86.0	67.2	56.3	71.2	73.1	57.3	38.5	36.6
75°	1783.7	407.1	87.0	62.3	41.5	39.5	55.3	55.3	39.5	25.7	23.7
77.5°	749.1	170.0	61.3	40.5	23.7	22.7	37.6	34.6	19.8	11.9	11.9
80°	216.4	76.1	32.6	19.8	9.9	8.9	14.8	10.9	4.9	2.0	2.0
82.5°	85.0	33.6	12.8	7.9	4.0	4.0	2.0	0.0	0.0	0.0	0.0
85°	50.4	13.8	5.9	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	3.0	2.0	0.0	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)