

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: P959961

Luminaire Tested: **NVN-SB1B-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1B-827-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5011.2 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

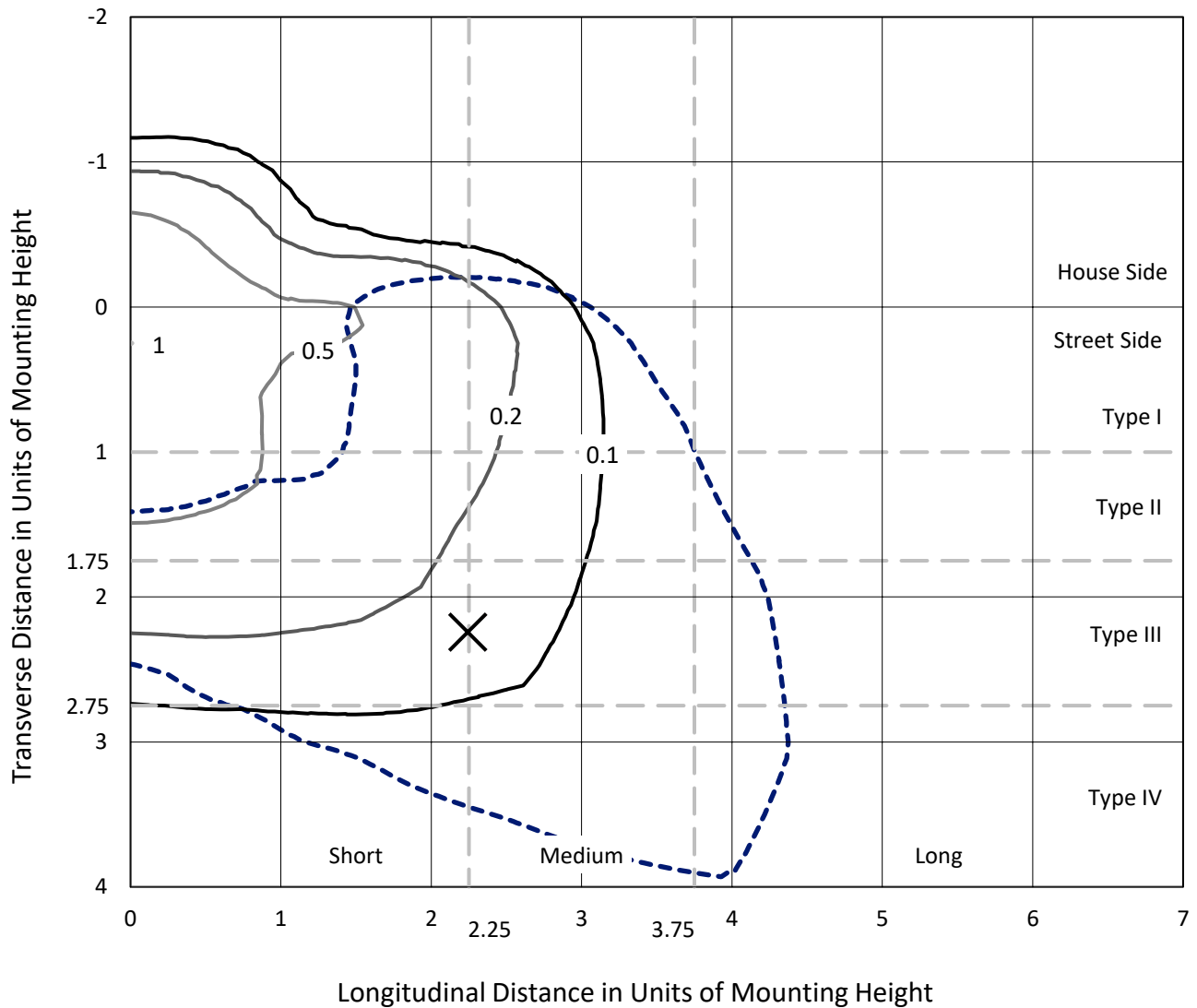
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

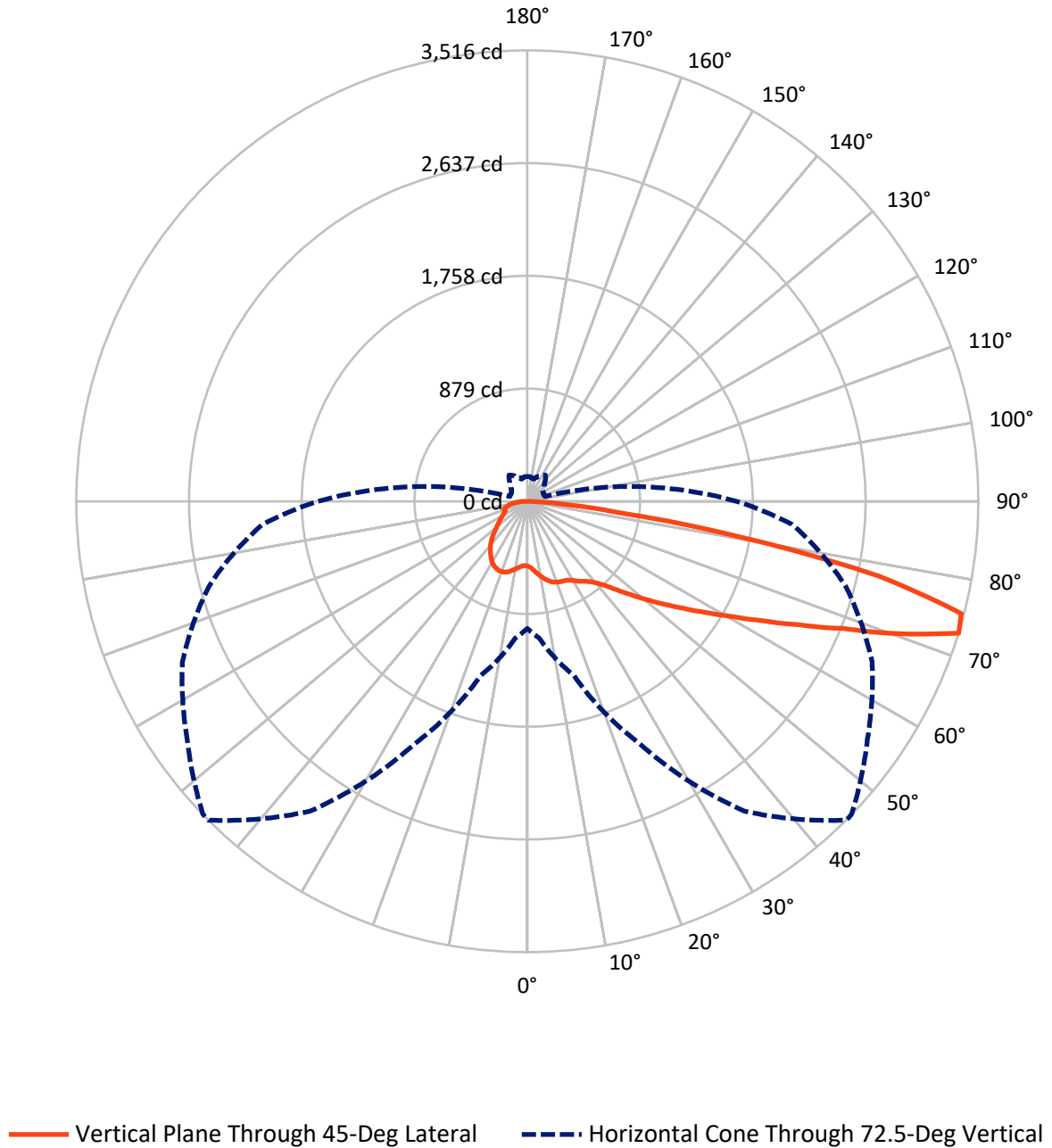
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1132.9	0.0	1132.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3878.4	0.0	3878.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	5011.2	0.0	5011.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	1.0
10°-20°	171.6	3.4
20°-30°	298.4	6.0
30°-40°	427.8	8.5
40°-50°	602.4	12.0
50°-60°	922.7	18.4
60°-70°	1336.6	26.7
70°-80°	1067.4	21.3
80°-90°	132.9	2.7
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°	5011.2	100.0
0°-180°	5011.2	100.0



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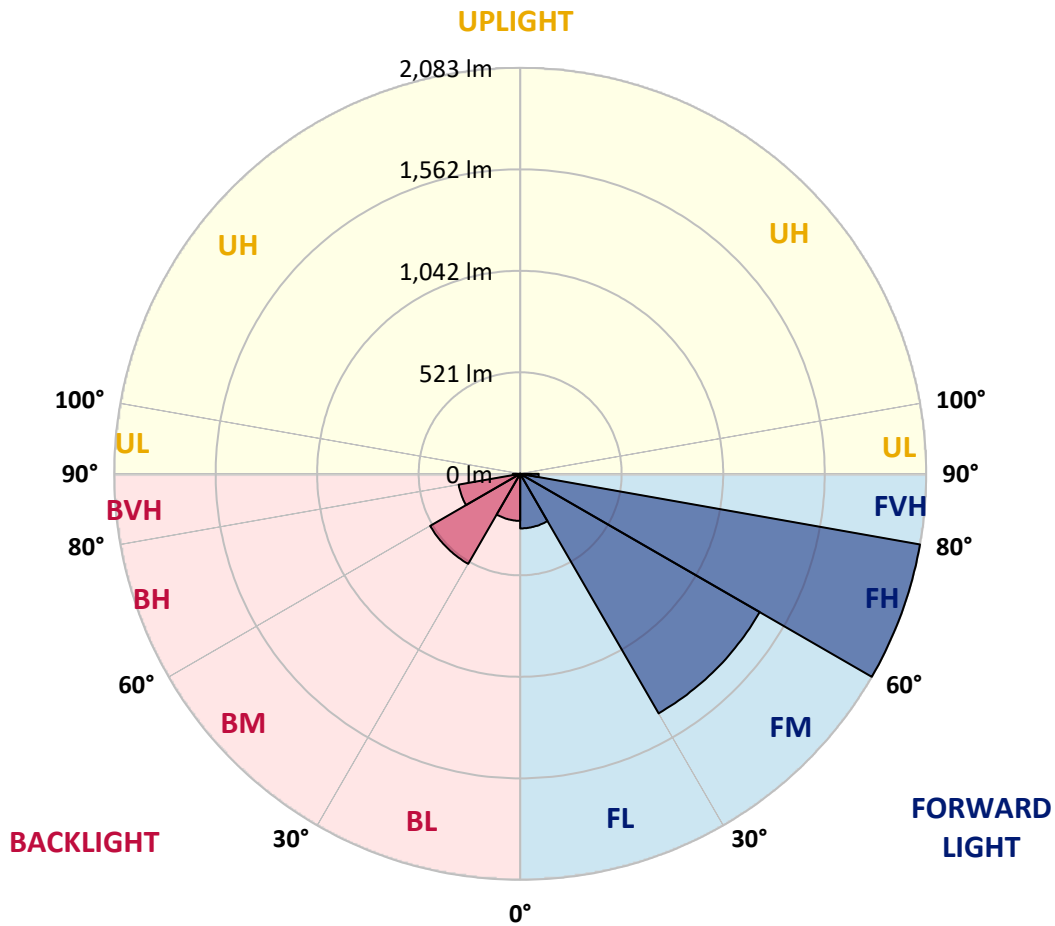
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	280.2	5.6			
FM (30°-60°)	1419.4	28.3			
FH (60°-80°)	2083.3	41.6			G2/5000
FVH (80°-90°)	95.4	1.9			G1/100
BL (0°-30°)	241.2	4.8	B1/500		
BM (30°-60°)	533.4	10.6	B1/1000		
BH (60°-80°)	320.7	6.4	B1/500		G1/500
BVH (80°-90°)	37.6	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5
2.5°	525.3	528.8	525.6	522.6	521.4	517.9	517.7	515.6	514.2	510.6	509.5
5°	562.0	566.5	561.2	555.4	550.1	541.7	540.7	534.5	527.7	519.8	515.3
7.5°	603.5	607.4	601.4	592.7	583.4	569.4	569.2	558.1	547.2	533.8	526.1
10°	639.6	644.9	636.7	624.8	613.3	597.4	595.5	582.9	569.2	551.8	540.1
12.5°	671.6	675.3	667.4	652.8	639.4	623.5	621.2	607.2	591.8	572.1	557.3
15°	696.9	701.7	691.2	675.6	661.3	645.8	643.6	630.9	615.6	594.8	575.7
17.5°	713.6	717.5	706.7	689.3	675.6	662.6	661.0	650.5	637.0	615.9	595.5
20°	719.9	724.2	712.8	695.1	682.4	672.4	671.6	663.9	654.7	635.4	614.8
22.5°	726.2	730.2	715.4	696.9	685.8	679.5	679.3	674.2	670.6	654.7	634.6
25°	751.8	752.9	733.1	706.4	690.5	685.0	684.8	684.5	686.1	673.7	656.0
27.5°	774.0	773.8	756.9	731.7	707.2	695.6	695.4	698.0	703.0	692.7	678.1
30°	806.5	803.6	783.5	757.4	734.9	717.0	715.4	713.0	717.0	708.8	700.4
32.5°	875.4	866.1	833.6	787.2	757.9	744.2	742.1	727.2	728.9	723.9	719.7
35°	974.2	962.0	918.7	843.7	786.4	766.9	765.8	747.1	743.9	739.4	741.0
37.5°	1091.6	1076.6	1026.1	925.6	835.5	793.2	791.7	774.8	761.9	757.1	766.1
40°	1209.6	1190.5	1148.9	1025.3	907.8	837.3	832.3	806.8	791.9	784.0	803.1
42.5°	1324.2	1308.3	1272.6	1137.2	997.1	901.8	890.7	846.9	835.8	828.4	862.7
45°	1425.6	1411.3	1385.2	1256.9	1101.6	989.4	978.6	907.0	903.6	903.6	953.2
47.5°	1507.9	1504.7	1477.0	1378.8	1224.9	1089.2	1070.5	990.8	1000.0	1014.2	1081.8
50°	1599.2	1590.5	1561.0	1499.0	1369.8	1203.6	1188.2	1093.5	1128.0	1167.1	1267.6
52.5°	1683.2	1688.0	1655.0	1624.0	1533.5	1331.1	1304.1	1214.6	1289.3	1354.0	1485.4
55°	1769.5	1769.8	1760.5	1756.3	1705.1	1472.0	1442.4	1360.3	1479.1	1559.3	1739.4
57.5°	1850.5	1851.0	1864.8	1902.0	1904.1	1634.6	1601.0	1539.3	1690.0	1771.9	2001.3
60°	1922.9	1926.6	1964.1	2051.2	2079.2	1821.0	1789.3	1750.8	1908.1	1990.4	2276.6
62.5°	1947.2	1960.6	2044.1	2167.9	2252.0	2049.6	2018.4	1995.5	2137.2	2213.8	2506.8
65°	1906.0	1936.8	2098.2	2264.2	2430.0	2321.2	2290.4	2265.2	2375.3	2447.4	2695.9
67.5°	1804.9	1844.7	2095.0	2365.3	2645.9	2648.1	2619.3	2560.4	2630.7	2658.3	2757.4
70°	1538.5	1598.2	1910.5	2403.1	2893.8	3095.0	3067.3	2915.7	2885.4	2751.3	2584.1
72.5°	991.3	1071.5	1406.8	2092.3	2949.0	3515.5	3513.9	3236.4	2965.9	2570.7	2072.5
75°	361.6	410.7	653.6	1313.3	2475.4	3494.1	3504.5	3181.6	2707.4	1985.7	1291.2
77.5°	131.7	144.1	213.3	504.7	1522.4	2803.6	2824.9	2543.5	1927.1	996.5	511.6
80°	69.2	76.1	109.3	195.9	652.3	1665.0	1698.5	1511.6	905.7	300.1	153.3
82.5°	38.2	41.4	61.3	106.4	293.9	712.0	732.1	597.2	318.7	127.2	63.3
85°	20.6	21.9	28.8	58.1	143.6	246.8	252.4	178.5	127.0	74.7	30.6
87.5°	6.0	7.4	9.5	18.4	56.3	55.5	56.8	35.4	50.1	37.7	10.0
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°	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5	505.5
2.5°	507.9	507.2	504.2	502.9	501.3	501.0	502.4	502.7	502.9	503.2	504.2
5°	512.7	510.0	507.4	505.8	506.4	506.6	509.2	511.1	512.4	513.4	513.9
7.5°	521.9	519.8	515.3	515.1	515.8	518.2	521.6	525.8	528.3	530.1	530.6
10°	535.7	531.7	526.4	527.2	528.8	532.2	539.4	542.7	546.7	550.1	549.4
12.5°	549.6	546.2	540.1	540.7	543.2	549.4	556.3	560.5	563.1	565.7	566.8
15°	567.8	561.8	555.1	555.1	560.0	566.5	569.7	573.1	574.7	577.6	578.6
17.5°	586.6	578.6	569.9	569.4	575.2	578.4	580.3	580.8	581.3	584.5	585.5
20°	605.4	596.7	584.2	583.1	584.5	583.9	583.6	583.1	583.9	587.9	589.5
22.5°	623.8	613.8	596.7	591.8	588.1	583.1	582.9	582.6	583.1	587.1	589.8
25°	645.4	633.3	610.4	596.0	583.6	576.8	577.6	577.9	578.4	581.6	585.8
27.5°	668.9	655.5	623.0	594.8	572.4	567.5	566.2	567.0	568.9	573.9	578.9
30°	692.4	676.6	634.6	589.5	558.1	551.4	547.2	549.1	554.9	560.0	565.5
32.5°	713.8	698.0	643.9	577.9	539.9	529.5	524.0	526.4	532.2	534.0	540.7
35°	738.9	721.0	647.8	559.3	520.1	504.2	496.8	493.4	496.3	494.5	500.3
37.5°	766.9	748.1	647.3	535.2	496.8	478.6	468.3	455.4	449.3	443.0	446.9
40°	808.3	781.4	640.9	505.8	468.0	451.4	433.0	411.0	397.3	384.9	385.7
42.5°	864.8	827.6	629.3	473.6	435.6	420.0	394.9	369.3	347.7	327.1	325.2
45°	949.0	888.1	614.8	439.3	400.5	385.2	357.9	329.2	304.6	278.3	275.1
47.5°	1070.5	969.3	601.1	400.2	363.5	349.5	324.9	298.3	269.3	243.6	240.8
50°	1237.3	1086.1	588.5	362.2	327.1	316.5	296.9	269.8	240.5	219.9	218.5
52.5°	1449.6	1244.7	583.1	325.5	293.0	289.0	273.5	248.2	220.5	203.1	201.7
55°	1693.2	1434.5	583.1	290.4	263.2	264.6	253.7	230.2	206.1	190.5	189.0
57.5°	1941.9	1626.7	572.6	257.9	237.9	243.4	236.6	216.0	194.3	178.1	175.6
60°	2171.1	1787.7	529.8	228.4	215.5	224.2	219.7	201.9	175.6	162.1	160.0
62.5°	2347.1	1878.5	447.4	204.9	196.9	206.9	204.6	183.5	172.1	166.6	164.7
65°	2435.3	1863.8	342.1	184.0	181.3	196.9	191.9	191.2	182.1	175.8	173.7
67.5°	2381.2	1736.6	248.2	168.7	172.4	187.7	206.9	210.1	193.5	181.1	179.0
70°	2143.8	1506.3	184.8	154.2	161.0	188.0	236.0	219.9	189.8	175.3	172.9
72.5°	1630.9	1123.3	143.3	138.9	146.3	189.3	249.0	215.5	179.3	193.7	192.2
75°	932.6	616.6	115.1	120.1	127.8	176.9	242.3	203.8	171.1	177.9	177.9
77.5°	355.6	237.1	95.0	101.7	102.7	154.5	231.8	203.1	162.9	158.9	144.9
80°	123.3	92.7	78.6	80.8	79.4	137.2	222.3	176.6	133.4	119.3	115.3
82.5°	50.4	46.2	62.3	59.7	56.5	106.6	179.5	144.4	109.1	96.4	95.3
85°	21.9	29.3	41.2	36.2	32.7	73.9	143.9	122.2	92.1	79.4	79.2
87.5°	4.5	11.1	17.4	16.4	16.9	49.4	102.2	86.8	65.2	48.8	38.2
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)