

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: P960772

Luminaire Tested: **NVN-SB1D-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-722-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8765.8 lumens
Efficiency: N/A
Efficacy: 110.1 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

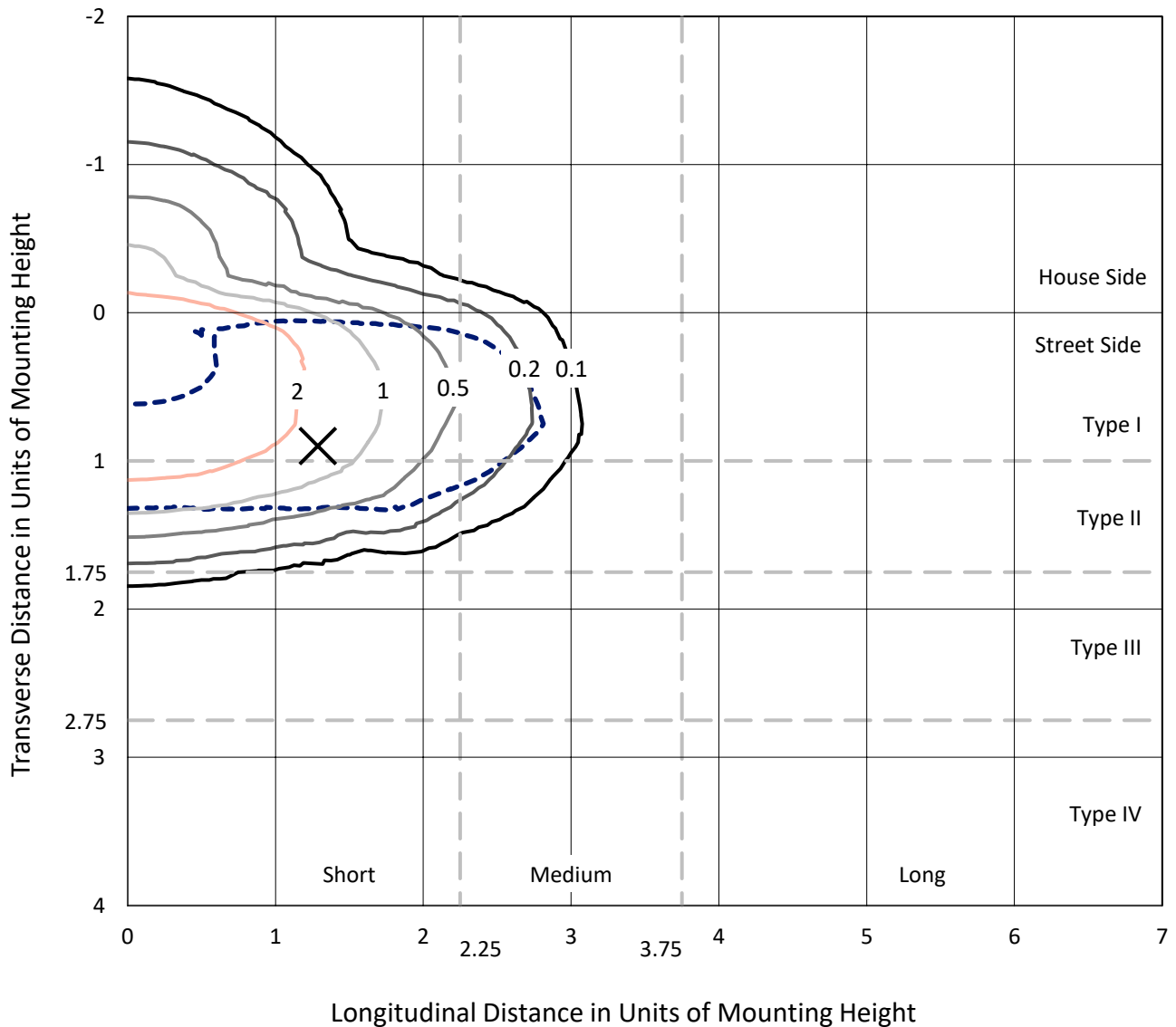
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

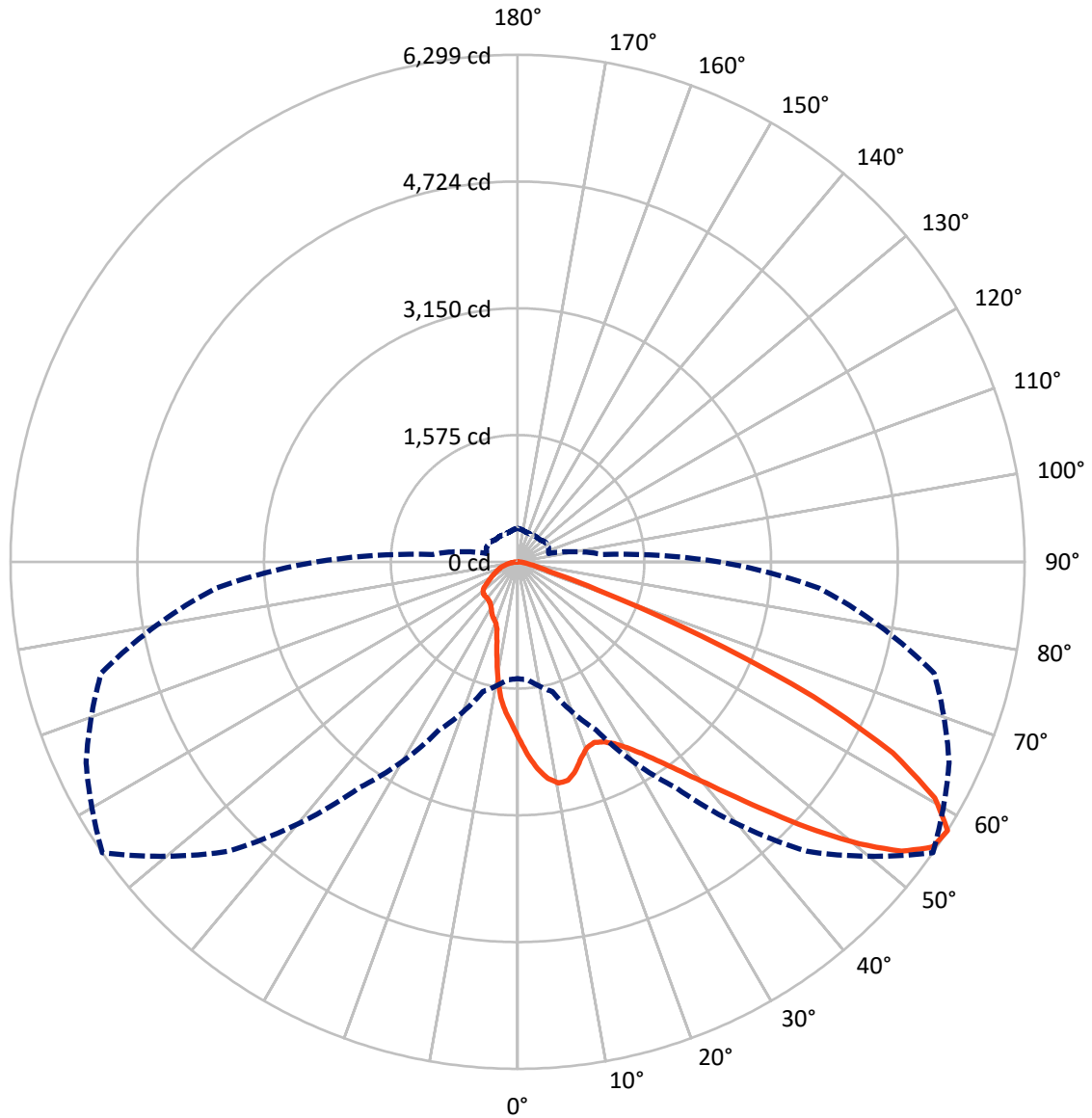
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1586.1	0.0	1586.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7179.7	0.0	7179.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	8765.8	0.0	8765.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	2.3
10°-20°	514.4	5.9
20°-30°	820.9	9.4
30°-40°	1299.7	14.8
40°-50°	1989.3	22.7
50°-60°	2130.7	24.3
60°-70°	1340.5	15.3
70°-80°	396.4	4.5
80°-90°	70.1	0.8
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°	8765.8	100.0
0°-180°	8765.8	100.0

Coefficient of Utilization



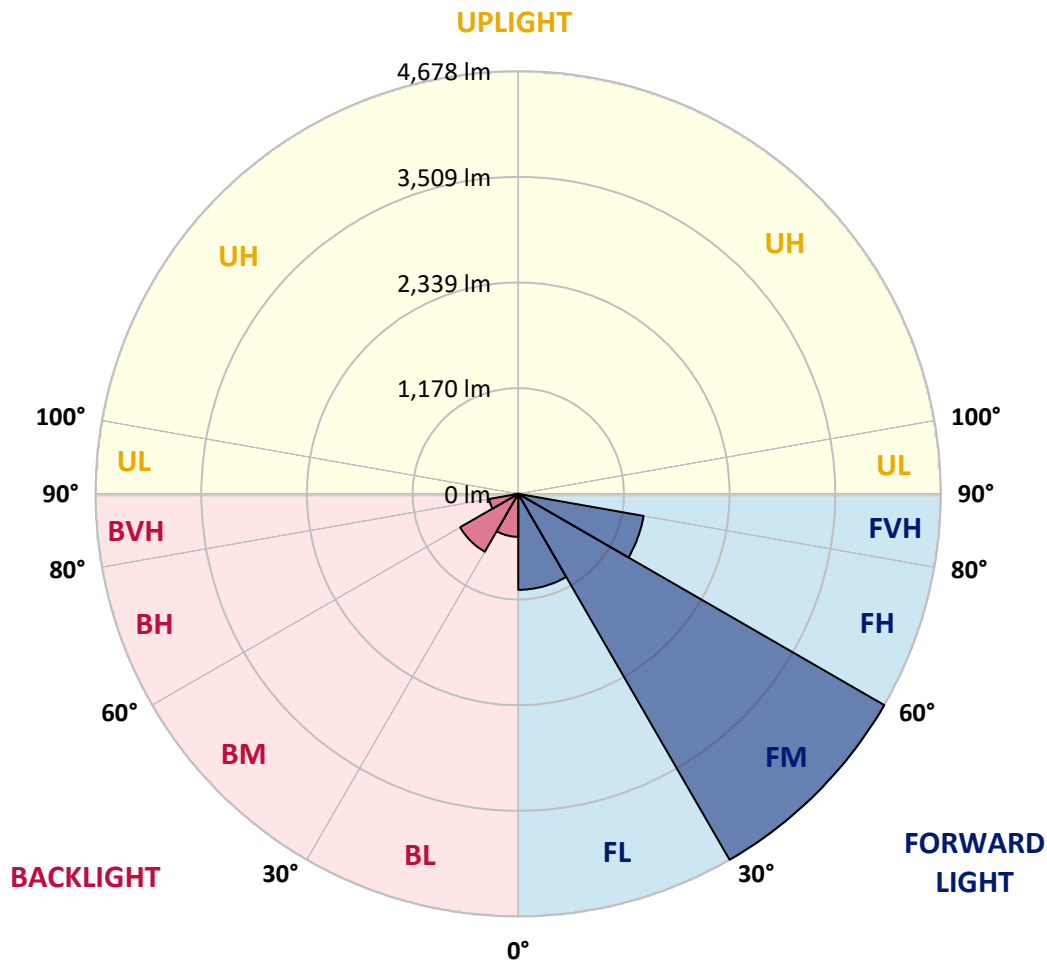
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1062.4	12.1			
FM (30°-60°)	4678.4	53.4			
FH (60°-80°)	1409.3	16.1			G1/1800
FVH (80°-90°)	29.6	0.3			G1/100
BL (0°-30°)	476.7	5.4	B1/500		
BM (30°-60°)	741.3	8.5	B1/1000		
BH (60°-80°)	327.6	3.7	B1/500		G1/500
BVH (80°-90°)	40.5	0.5			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°	65°	75°	85°	90°
0°	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5
2.5°	2520.0	2518.1	2528.2	2494.1	2471.1	2439.8	2398.5	2345.9	2289.3	2229.5	2203.6
5°	2747.0	2731.1	2741.6	2716.1	2690.8	2643.7	2582.5	2496.9	2392.1	2273.0	2209.6
7.5°	2711.2	2700.4	2727.1	2749.8	2768.7	2762.9	2718.0	2628.3	2493.2	2320.1	2228.1
10°	2422.6	2410.3	2447.9	2526.3	2641.4	2741.6	2796.0	2740.2	2596.5	2371.7	2246.3
12.5°	2167.9	2162.0	2186.9	2250.4	2378.1	2570.3	2786.0	2838.1	2704.0	2432.9	2270.8
15°	2059.1	2051.8	2067.7	2099.9	2181.5	2360.5	2695.3	2905.2	2809.5	2503.7	2309.7
17.5°	2035.1	2026.9	2033.7	2050.5	2103.1	2239.5	2558.5	2938.3	2919.6	2582.5	2342.3
20°	2079.5	2072.8	2073.6	2072.8	2109.4	2217.7	2463.3	2925.6	3015.8	2655.1	2374.1
22.5°	2186.9	2175.6	2176.1	2152.0	2172.0	2255.8	2438.4	2891.5	3101.3	2718.5	2398.1
25°	2361.8	2341.4	2345.5	2284.3	2278.9	2341.0	2477.4	2865.3	3186.5	2769.2	2402.6
27.5°	2601.0	2578.0	2565.8	2474.7	2431.2	2461.9	2556.7	2874.3	3267.2	2813.2	2391.3
30°	2900.1	2872.0	2847.1	2718.0	2639.2	2627.8	2680.0	2934.2	3362.4	2859.3	2371.7
32.5°	3266.8	3234.2	3188.9	3017.5	2906.5	2847.1	2839.5	3040.7	3473.8	2918.3	2361.8
35°	3703.1	3660.6	3596.2	3374.6	3234.2	3112.7	3049.7	3194.3	3626.6	3007.1	2373.2
37.5°	4152.7	4104.6	4045.8	3782.0	3609.3	3430.4	3306.2	3402.7	3830.0	3127.7	2403.1
40°	4567.3	4513.4	4458.5	4223.8	4038.5	3822.7	3620.2	3666.4	4078.8	3271.8	2453.8
42.5°	4812.0	4772.1	4751.3	4624.4	4481.2	4262.4	4010.8	3979.2	4358.4	3437.6	2511.9
45°	4801.1	4784.8	4849.2	4901.8	4867.7	4746.3	4468.5	4324.9	4638.9	3581.2	2565.3
47.5°	4544.6	4555.5	4699.2	4994.6	5124.7	5188.1	4989.7	4664.3	4882.7	3688.7	2589.4
50°	3846.8	3855.8	4188.5	4825.6	5190.8	5548.4	5506.7	4995.5	5071.7	3754.4	2583.8
52.5°	3294.5	3300.3	3443.1	4324.5	4972.5	5729.6	5972.6	5307.8	5209.9	3772.5	2553.5
55°	2481.4	2501.8	2661.8	3392.7	4404.2	5586.0	6256.2	5629.5	5297.3	3774.3	2521.8
57.5°	1449.7	1471.8	1669.4	2302.9	3423.1	5085.2	6299.2	5915.0	5356.8	3759.8	2502.7
60°	710.1	719.7	805.8	1210.3	2110.8	4120.5	5953.1	6053.2	5389.8	3752.1	2501.8
62.5°	478.6	477.1	480.8	597.3	1040.0	2647.3	5231.6	5811.2	5372.1	3722.6	2492.8
65°	411.4	406.5	392.9	419.1	538.8	1210.8	4042.1	5088.9	5237.5	3648.8	2430.7
67.5°	355.7	356.2	356.6	348.5	384.7	558.7	2470.1	4008.6	4754.5	3299.0	2191.4
70°	294.6	298.6	300.4	300.4	313.5	366.6	1054.5	2747.4	3750.3	2586.6	1765.0
72.5°	268.2	259.6	260.6	256.0	256.0	279.1	424.6	1557.5	2362.7	1455.1	1077.2
75°	218.8	224.3	225.2	222.0	211.7	213.0	251.9	653.4	1011.0	603.6	532.5
77.5°	189.0	189.0	190.8	188.5	180.4	159.5	168.1	253.3	344.0	247.4	266.0
80°	151.8	151.4	159.1	163.6	150.9	117.8	107.4	140.0	152.7	108.8	138.2
82.5°	73.9	78.4	109.2	124.6	114.7	85.2	65.7	87.0	81.6	48.1	62.1
85°	43.0	40.8	48.9	69.3	65.7	47.2	31.7	45.3	42.6	24.5	24.9
87.5°	13.6	12.7	9.9	23.6	19.1	13.1	8.6	13.1	11.8	5.4	5.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5	2196.5
2.5°	2171.5	2118.1	2065.0	2016.5	1987.1	1968.0	1949.0	1927.7	1919.5	1907.3
5°	2149.7	2046.4	1954.5	1875.1	1803.1	1746.4	1689.3	1643.2	1622.3	1636.3
7.5°	2137.0	1987.5	1845.7	1700.3	1560.2	1448.2	1350.8	1282.4	1251.6	1259.3
10°	2125.7	1921.0	1704.8	1475.0	1273.8	1135.2	1035.5	983.4	963.8	967.9
12.5°	2115.3	1846.1	1534.8	1232.6	1018.6	927.1	898.6	899.0	902.7	905.4
15°	2113.4	1755.9	1344.9	1020.5	880.9	875.0	905.9	925.4	935.7	938.9
17.5°	2110.8	1648.1	1151.5	876.0	847.4	887.2	915.8	928.5	936.6	937.2
20°	2099.9	1511.3	972.9	807.1	840.2	874.6	892.3	902.2	909.1	911.3
22.5°	2066.4	1359.0	833.8	776.2	811.2	838.8	859.7	870.9	875.0	877.7
25°	2006.1	1188.6	737.7	746.8	770.8	805.8	822.5	824.7	823.4	827.5
27.5°	1927.2	1006.0	677.9	706.9	737.7	767.6	776.7	775.3	772.6	777.2
30°	1832.1	841.9	639.8	662.0	704.2	731.3	739.5	736.4	730.9	735.9
32.5°	1731.5	707.9	608.5	630.8	676.6	703.3	711.5	708.3	704.2	708.3
35°	1637.6	614.0	579.5	610.0	654.8	681.1	691.5	692.0	692.0	696.9
37.5°	1551.5	559.2	555.6	596.8	639.8	663.4	678.3	679.3	659.8	661.1
40°	1471.8	536.1	544.7	588.1	625.4	648.0	648.9	598.2	562.3	561.5
42.5°	1406.6	531.6	547.9	587.3	614.9	615.8	552.0	512.5	502.6	503.0
45°	1345.4	530.2	555.1	587.3	599.5	532.0	488.9	478.6	479.4	483.1
47.5°	1276.9	524.8	556.5	579.1	555.1	473.1	460.4	455.9	454.1	455.0
50°	1202.2	505.2	539.3	562.8	479.0	447.7	431.8	430.5	432.8	434.1
52.5°	1123.4	473.6	509.8	533.4	444.1	425.5	407.8	411.0	421.0	424.1
55°	1071.7	436.3	470.8	474.5	419.6	404.7	389.7	397.0	415.5	421.5
57.5°	1058.1	397.0	426.4	422.3	388.4	386.5	377.5	383.9	407.3	415.9
60°	1054.0	361.6	382.9	379.8	358.0	366.6	364.3	367.5	375.7	378.4
62.5°	1022.3	333.5	344.0	339.4	330.8	345.7	351.2	344.4	350.8	353.9
65°	941.7	310.9	305.9	302.7	306.4	319.9	330.8	317.2	323.1	332.2
67.5°	808.4	280.0	266.5	270.1	281.4	288.6	302.7	287.3	292.3	307.7
70°	653.8	241.1	228.9	239.2	250.1	265.1	267.3	257.0	268.8	286.0
72.5°	462.7	201.6	193.0	214.3	217.9	237.5	232.5	227.4	243.7	249.7
75°	320.8	162.7	157.7	174.0	187.2	203.9	200.3	206.2	240.7	243.3
77.5°	203.1	126.4	123.3	133.7	151.8	170.4	176.3	243.3	411.0	427.3
80°	117.8	94.3	90.6	98.8	114.7	131.9	169.9	298.6	271.0	267.8
82.5°	65.7	64.8	60.3	62.5	76.6	95.1	240.2	210.2	170.9	176.3
85°	30.9	38.0	32.6	31.3	43.0	111.5	160.4	120.1	79.7	77.9
87.5°	8.2	7.3	7.3	8.2	18.1	96.0	63.9	51.2	30.3	29.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)