

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: P965136

Luminaire Tested: **NVN-SB3D-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3D-740-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32724.1 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

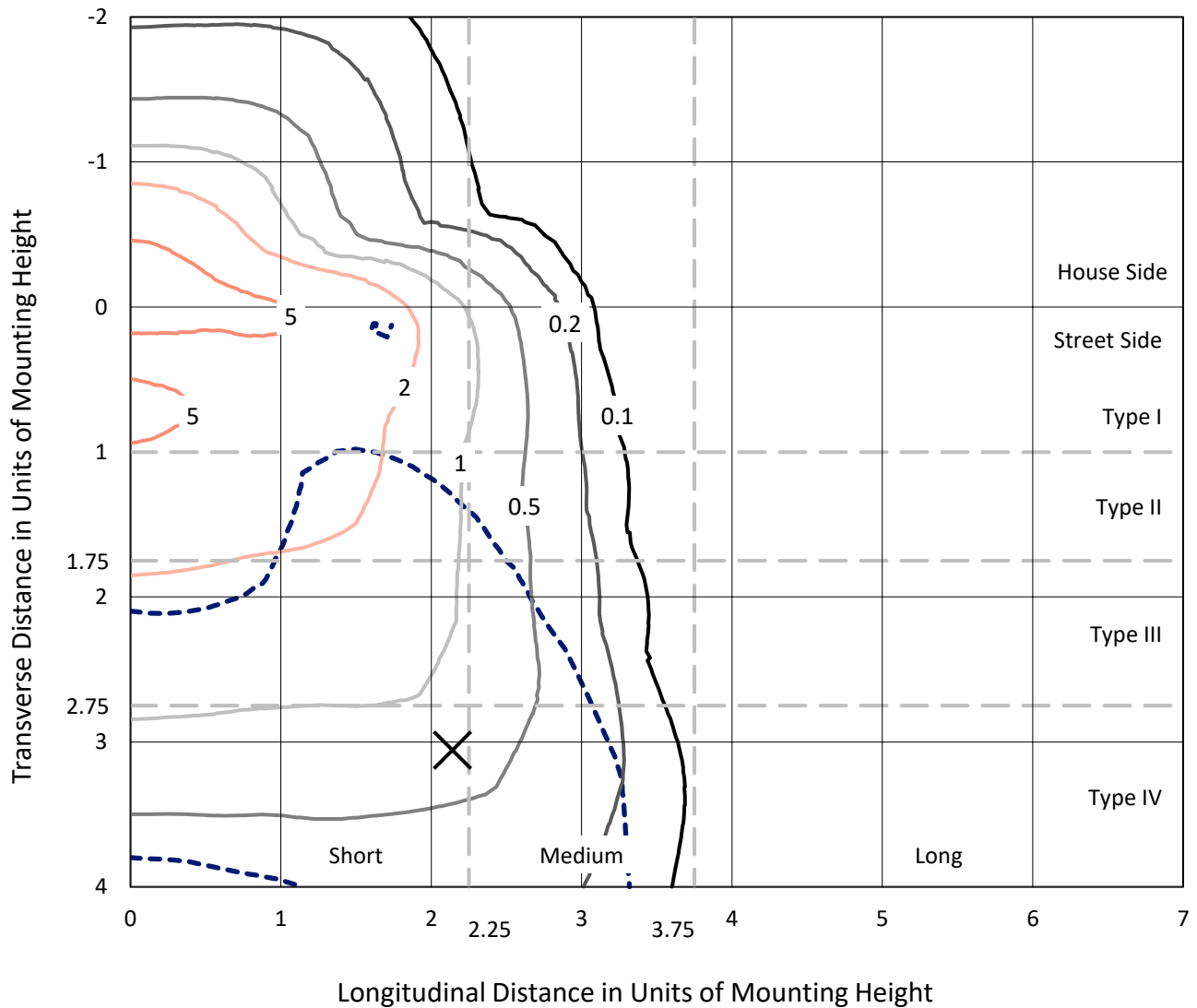
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

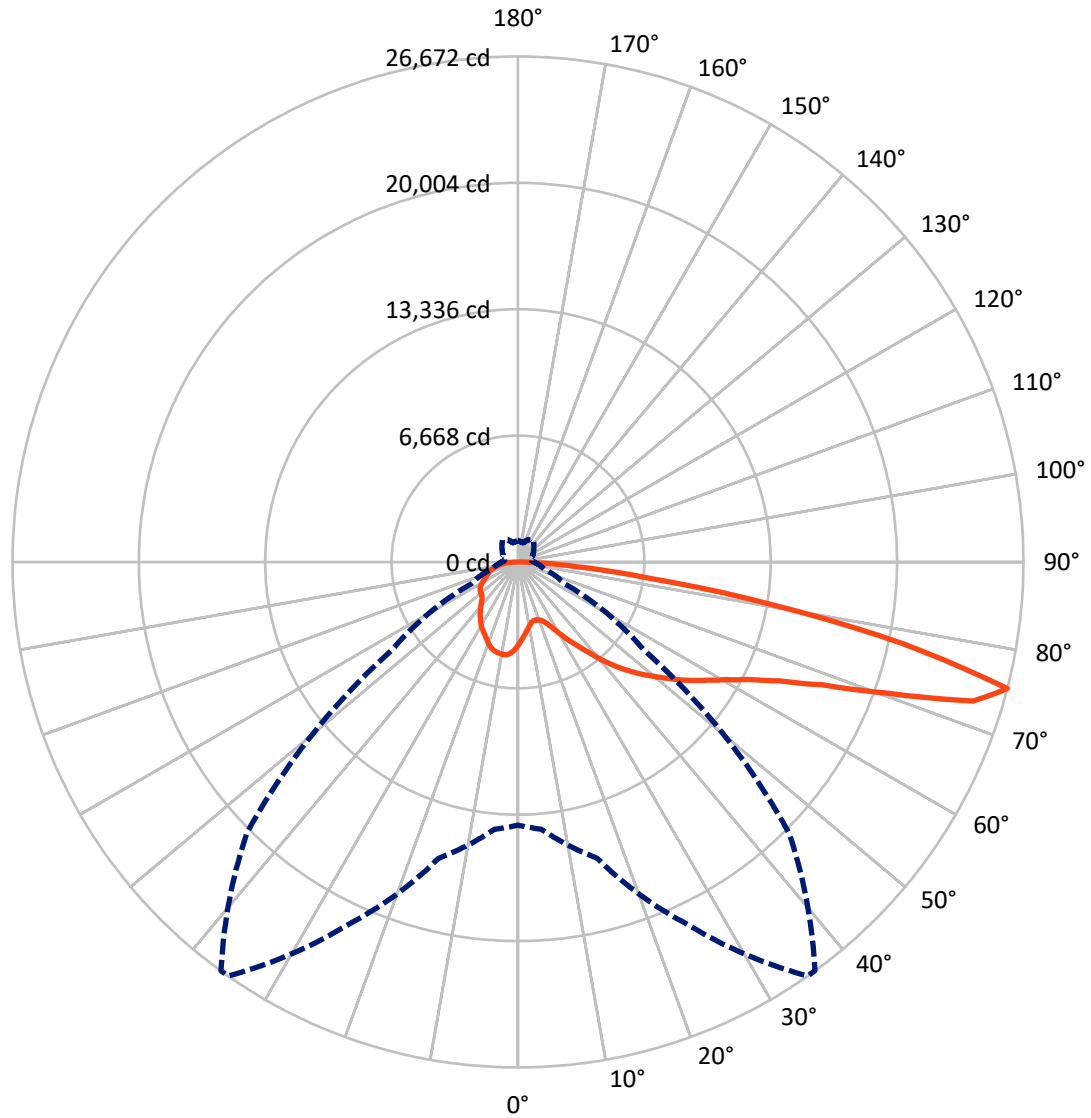
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7787.5	0.0	7787.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	24936.6	0.0	24936.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	32724.1	0.0	32724.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.9	1.3
10°-20°	1190.9	3.6
20°-30°	1999.8	6.1
30°-40°	3108.0	9.5
40°-50°	4613.1	14.1
50°-60°	6368.7	19.5
60°-70°	7726.7	23.6
70°-80°	6385.5	19.5
80°-90°	918.4	2.8
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°	32724.1	100.0
0°-180°	32724.1	100.0

Coefficient of Utilization



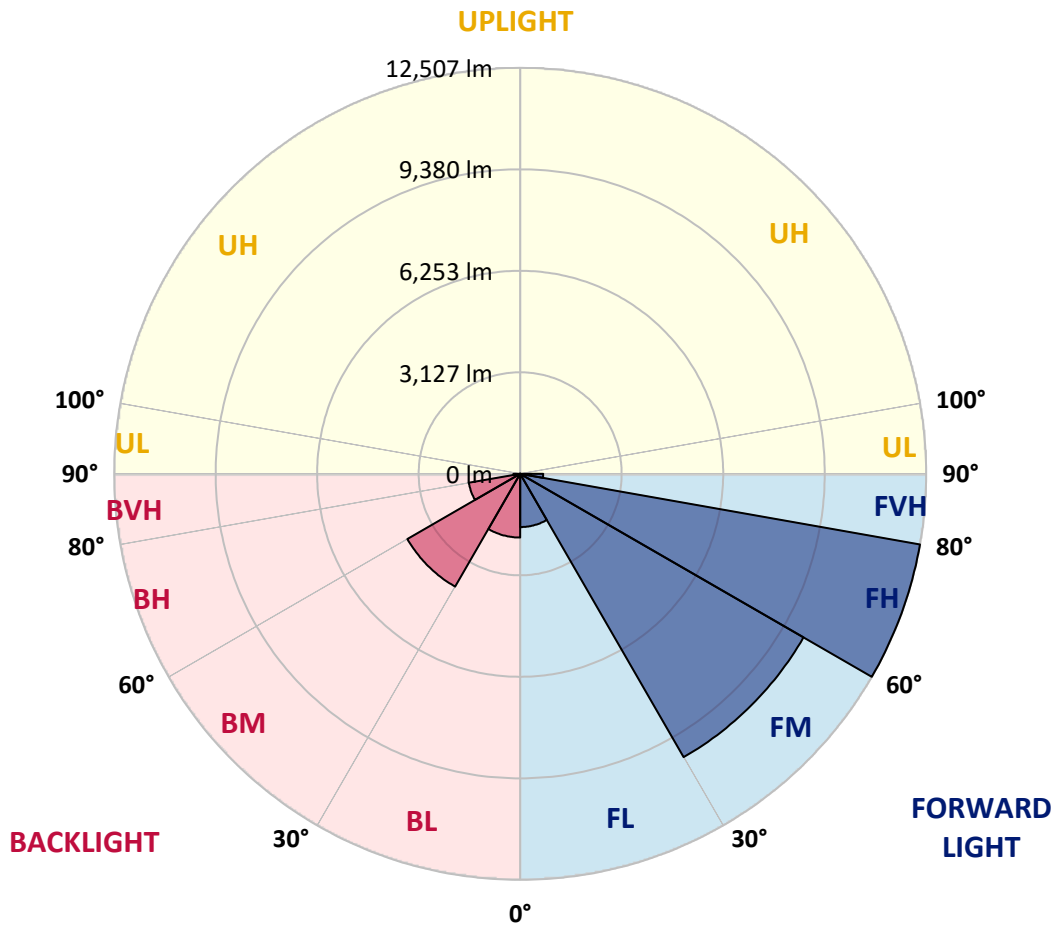
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1641.1	5.0			
FM (30°-60°)	10077.3	30.8			
FH (60°-80°)	12506.7	38.2			G5
FVH (80°-90°)	711.6	2.2			G4/750
BL (0°-30°)	1962.6	6.0	B3/2500		
BM (30°-60°)	4012.6	12.3	B3/5000		
BH (60°-80°)	1605.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	206.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8
2.5°	4021.1	4045.8	4056.4	4051.1	4077.7	4074.2	4111.3	4157.3	4221.0	4282.9	4373.1
5°	3711.4	3738.0	3761.0	3782.2	3833.5	3849.5	3907.8	3996.3	4113.0	4231.6	4380.1
7.5°	3423.1	3446.2	3481.5	3520.5	3607.1	3623.1	3720.3	3858.3	4021.1	4194.4	4399.6
10°	3187.9	3210.8	3248.0	3292.2	3400.1	3419.6	3543.4	3727.4	3939.7	4159.0	4420.8
12.5°	3087.0	3094.1	3115.3	3159.6	3253.2	3265.6	3401.9	3612.4	3860.0	4132.5	4452.7
15°	3081.7	3095.8	3097.7	3120.6	3198.4	3203.7	3329.4	3538.1	3810.5	4127.2	4500.5
17.5°	3134.8	3145.4	3129.4	3143.6	3209.1	3217.9	3317.0	3502.7	3794.7	4150.2	4581.9
20°	3276.3	3285.1	3237.4	3217.9	3265.6	3272.7	3370.0	3525.7	3810.5	4198.0	4693.3
22.5°	3577.0	3582.4	3465.5	3386.0	3389.5	3393.1	3477.9	3619.5	3872.4	4284.6	4834.8
25°	4045.8	4042.3	3856.6	3702.6	3614.2	3594.7	3651.4	3771.6	3976.8	4399.6	5017.1
27.5°	4594.3	4567.7	4382.0	4152.0	3959.2	3930.9	3918.5	3969.7	4125.4	4551.8	5239.9
30°	5213.4	5188.7	4988.8	4687.9	4420.8	4374.9	4258.2	4231.6	4346.5	4758.8	5549.6
32.5°	5892.7	5876.8	5638.0	5273.5	4916.2	4863.1	4666.7	4596.0	4686.2	5071.9	5981.2
35°	6462.3	6448.2	6250.0	5875.0	5438.0	5372.6	5172.7	5093.1	5139.1	5473.4	6545.4
37.5°	6977.2	6970.1	6800.3	6504.9	6053.6	5974.1	5749.4	5722.9	5714.1	6002.4	7230.1
40°	7454.8	7437.1	7260.2	7104.5	6770.1	6697.7	6499.5	6476.5	6409.3	6653.4	8004.9
42.5°	7983.7	7937.7	7681.2	7608.7	7518.5	7458.3	7339.8	7343.3	7194.8	7387.6	8825.8
45°	8415.4	8388.8	8125.3	8082.8	8180.1	8155.3	8257.9	8284.5	7996.1	8157.1	9678.5
47.5°	8878.9	8854.2	8631.2	8601.1	8864.7	8871.8	9234.4	9243.3	8778.0	8956.8	10532.9
50°	9450.3	9414.9	9193.7	9230.9	9526.3	9552.9	10216.3	10156.1	9498.1	9768.7	11380.3
52.5°	9827.1	9848.3	9800.5	9860.7	10264.0	10288.8	11182.1	11028.3	10210.9	10570.1	12211.7
55°	10104.9	10147.3	10295.9	10433.9	11042.4	11067.2	12093.3	11857.9	10801.9	11313.1	12993.7
57.5°	10462.2	10402.0	10679.8	10948.6	11781.9	11847.4	12979.6	12657.5	11325.4	11953.4	13529.7
60°	10975.2	10932.8	11148.6	11546.6	12609.8	12714.2	13917.1	13377.6	11709.4	12461.2	13634.0
62.5°	12015.4	11909.3	11942.9	12294.9	13653.5	13791.6	14975.0	14005.6	11900.5	12659.4	13075.1
65°	13570.4	13388.1	13218.4	13462.5	15123.7	15259.9	16169.2	14499.1	11829.6	12275.5	11590.8
67.5°	15528.7	15348.4	15139.6	15369.6	17289.0	17396.8	17642.7	14776.9	11272.4	10796.5	8967.3
70°	17143.8	17076.7	17326.1	18272.6	20747.4	20751.0	19532.1	14546.9	9745.7	7654.7	5188.7
72.5°	16929.8	16889.1	18203.6	21129.6	25106.4	25012.7	21320.6	12806.1	6564.9	3453.2	1944.2
75°	13888.9	14152.4	16188.6	21078.3	26672.0	26659.6	20225.6	8141.2	2715.5	1431.2	1004.8
77.5°	7447.8	7865.2	10509.9	15562.4	20821.7	21134.9	14219.6	2848.2	1165.8	916.4	695.3
80°	2428.9	2793.3	4189.1	7923.6	13529.7	13471.4	6094.3	1118.1	797.9	649.2	481.1
82.5°	1031.4	1073.8	1871.6	3741.6	6943.6	6835.6	1940.6	642.2	560.8	444.0	297.2
85°	403.3	451.1	826.2	1730.1	3007.4	2942.0	700.6	318.5	359.2	290.1	176.9
87.5°	132.6	161.0	295.4	592.7	935.8	902.2	171.6	109.7	155.7	132.6	63.7
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°	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8
2.5°	4397.9	4426.2	4459.8	4509.3	4551.8	4587.2	4624.3	4647.3	4656.2	4682.7	4680.9
5°	4429.7	4491.7	4574.8	4656.2	4735.7	4783.5	4826.0	4847.2	4866.7	4880.8	4884.3
7.5°	4482.7	4562.4	4693.3	4799.5	4866.7	4905.5	4933.8	4926.8	4933.8	4937.4	4942.8
10°	4528.8	4640.2	4795.9	4896.7	4948.1	4949.8	4942.8	4918.0	4905.5	4907.4	4910.9
12.5°	4583.6	4707.4	4875.5	4960.4	4974.5	4935.7	4905.5	4863.1	4847.2	4840.2	4836.6
15°	4657.9	4799.5	4962.2	4994.0	4958.6	4909.1	4857.8	4788.8	4753.4	4725.1	4734.0
17.5°	4748.1	4903.8	5029.4	5006.4	4930.4	4849.0	4765.8	4661.5	4588.9	4558.9	4560.6
20°	4873.8	5013.5	5080.7	4979.9	4864.9	4741.0	4599.6	4472.2	4404.9	4374.9	4371.3
22.5°	5025.9	5160.4	5130.2	4933.8	4771.2	4573.0	4396.1	4302.3	4268.7	4247.5	4251.0
25°	5208.1	5323.0	5165.6	4866.7	4617.2	4350.1	4213.9	4183.8	4167.9	4152.0	4152.0
27.5°	5445.1	5507.0	5192.1	4767.6	4376.6	4113.0	4063.5	4068.8	4063.5	4037.0	4042.3
30°	5758.2	5745.8	5216.9	4606.7	4100.6	3899.0	3902.5	3925.5	3929.0	3911.4	3920.2
32.5°	6170.5	6044.8	5229.3	4397.9	3837.1	3711.4	3715.0	3739.8	3757.4	3727.4	3741.6
35°	6669.4	6393.3	5209.9	4136.1	3633.6	3532.8	3506.2	3513.3	3518.6	3490.3	3509.8
37.5°	7251.4	6784.3	5123.2	3845.9	3465.5	3357.7	3301.0	3253.2	3225.0	3198.4	3216.1
40°	7889.9	7210.7	4964.0	3562.9	3278.1	3171.9	3087.0	2996.8	2901.3	2865.9	2881.8
42.5°	8558.6	7649.4	4771.2	3292.2	3062.2	2975.6	2885.4	2754.4	2611.1	2538.6	2547.4
45°	9252.2	8098.7	4581.9	3025.1	2841.1	2804.0	2699.5	2542.1	2386.4	2294.5	2287.4
47.5°	9931.4	8523.3	4304.1	2756.2	2634.1	2674.8	2593.5	2448.4	2275.0	2130.0	2114.1
50°	10580.7	8921.3	3849.5	2483.8	2466.0	2635.9	2558.1	2349.3	2151.2	1965.4	1949.4
52.5°	11224.7	9243.3	3267.4	2236.0	2375.8	2625.2	2512.1	2282.1	2039.7	1845.1	1823.9
55°	11771.3	9409.6	2706.6	2023.8	2245.0	2535.0	2457.2	2202.5	1882.3	1675.3	1657.6
57.5°	12082.6	9275.1	2239.6	1815.1	2064.5	2386.4	2363.4	2032.7	1694.7	1535.6	1514.3
60°	11948.2	8730.2	1857.5	1632.8	1892.9	2225.5	2200.7	1864.6	1551.4	1401.1	1379.9
62.5°	11206.9	7691.8	1555.0	1473.6	1737.2	2061.0	2037.9	1735.4	1441.8	1296.7	1273.8
65°	9713.8	6257.1	1319.7	1340.9	1579.7	1862.8	1896.5	1627.5	1355.0	1213.6	1190.5
67.5°	7408.8	4532.3	1135.7	1226.0	1425.9	1668.2	1765.6	1549.7	1282.6	1148.1	1126.9
70°	4222.7	2574.0	980.1	1114.5	1289.7	1487.8	1664.7	1487.8	1204.7	1093.3	1079.1
72.5°	1600.9	1181.7	847.4	1003.1	1158.8	1335.7	1553.2	1390.5	1114.5	1031.4	1017.2
75°	854.4	720.0	712.9	872.2	1008.4	1187.1	1413.5	1295.0	1047.2	1089.8	1125.1
77.5°	582.0	509.5	596.1	746.5	843.9	1022.5	1264.8	1149.8	907.5	903.9	833.2
80°	403.3	360.9	484.7	601.5	652.8	859.8	1103.9	987.2	739.4	689.9	659.9
82.5°	242.3	235.2	362.6	449.4	461.8	663.4	914.6	827.9	605.1	527.2	530.7
85°	132.6	139.7	231.8	263.6	268.9	463.5	716.5	640.4	465.2	390.9	394.5
87.5°	37.1	47.8	84.9	104.3	129.1	240.6	426.3	380.4	233.5	162.8	162.8
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)