

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: P965225

Luminaire Tested: **NVN-SB3D-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3D-827-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22655.6 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

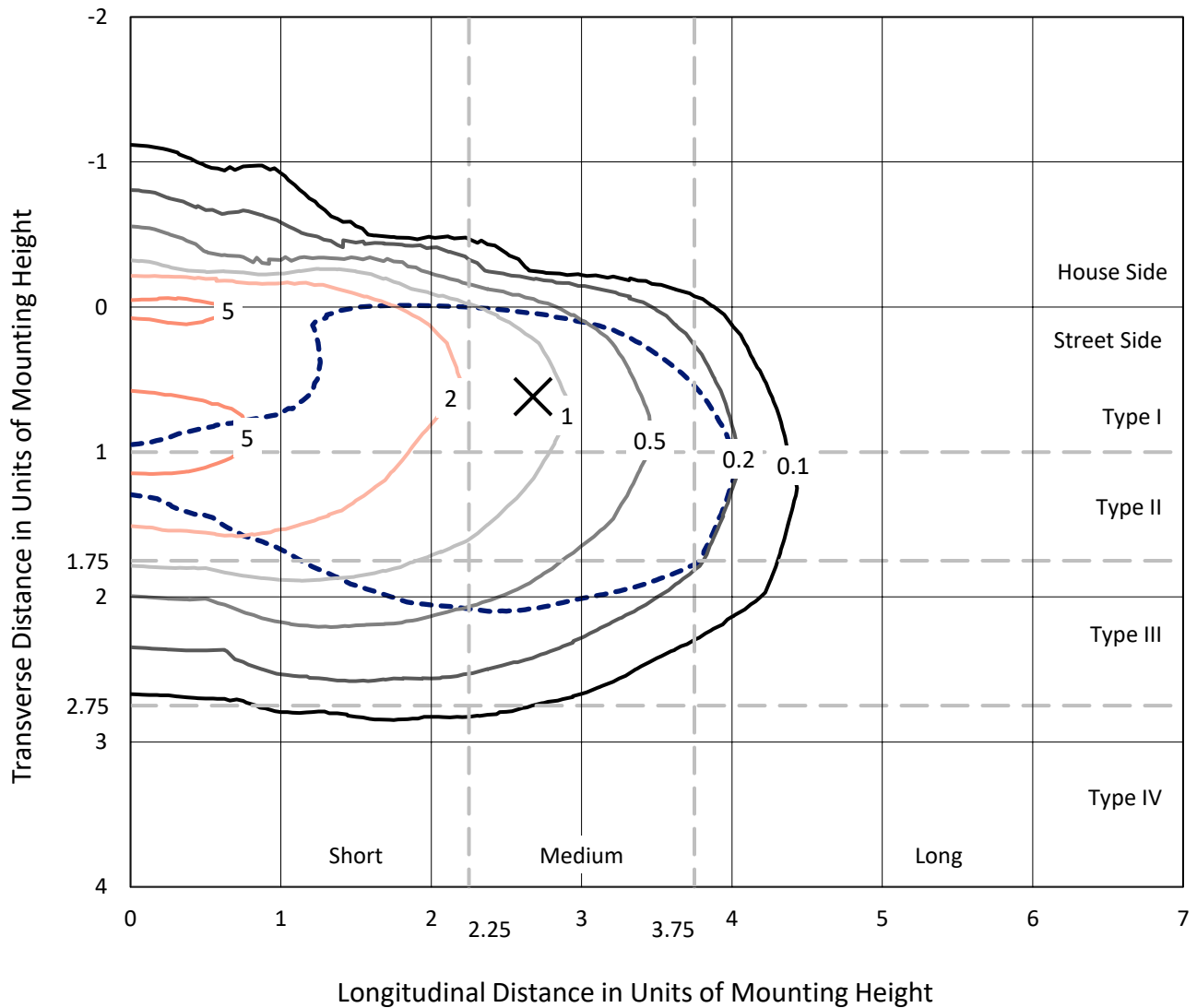
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

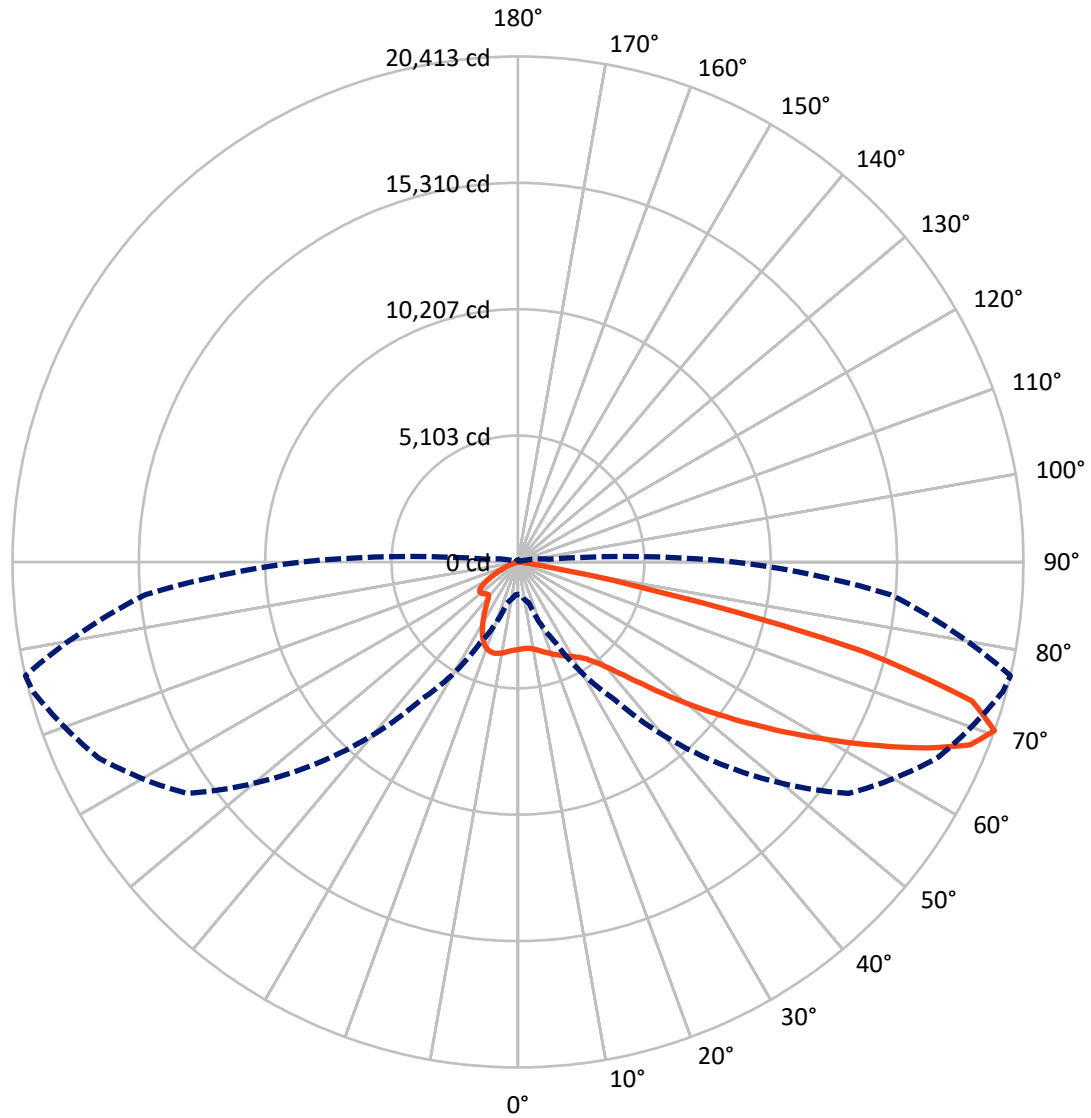
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2388.2	0.0	2388.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20267.4	0.0	20267.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	22655.6	0.0	22655.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.6	1.3
10°-20°	723.0	3.2
20°-30°	1118.3	4.9
30°-40°	2029.2	9.0
40°-50°	3830.3	16.9
50°-60°	5534.5	24.4
60°-70°	5891.3	26.0
70°-80°	3122.0	13.8
80°-90°	102.5	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°	22655.6	100.0
0°-180°	22655.6	100.0

Coefficient of Utilization



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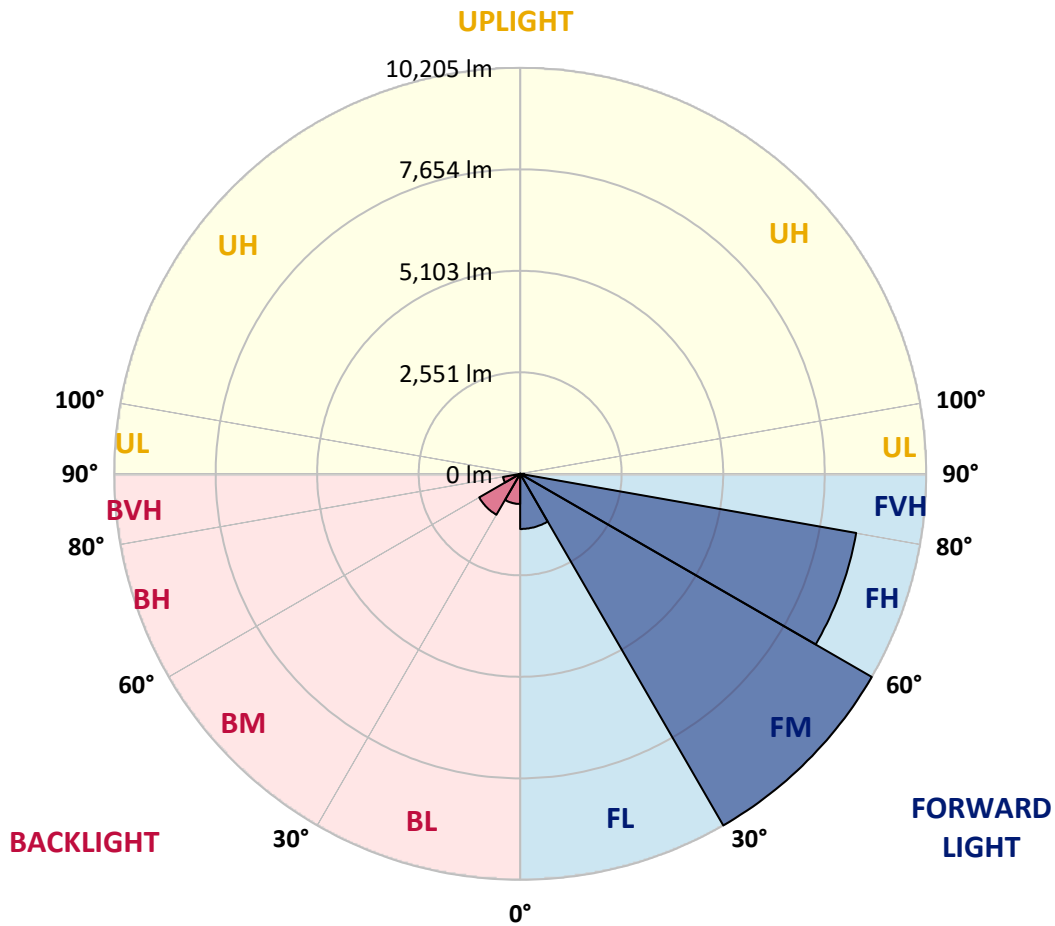
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1387.1	6.1			
FM (30°-60°)	10205.1	45.0			
FH (60°-80°)	8575.5	37.9			G4/12000
FVH (80°-90°)	99.8	0.4			G1/100
BL (0°-30°)	758.8	3.3	B2/1000		
BM (30°-60°)	1188.9	5.2	B2/2500		
BH (60°-80°)	437.8	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3533.9	3533.9	3533.9	3533.9	3533.9	3533.9	3533.9	3533.9	3533.9	3533.9	3533.9
2.5°	3317.8	3347.9	3343.6	3363.6	3370.7	3399.4	3428.0	3466.7	3509.5	3508.1	3536.8
5°	3130.4	3160.5	3167.6	3194.8	3229.2	3273.4	3332.2	3409.4	3489.5	3502.4	3559.6
7.5°	2908.6	2940.1	2958.8	3013.1	3076.0	3167.6	3263.5	3376.5	3509.5	3528.2	3638.3
10°	2686.8	2715.5	2739.8	2817.1	2917.3	3053.2	3209.1	3372.1	3551.0	3578.2	3734.2
12.5°	2549.5	2576.7	2603.9	2671.1	2795.6	2961.5	3173.3	3392.2	3619.7	3658.3	3864.4
15°	2500.9	2525.2	2546.7	2606.8	2722.6	2911.5	3166.1	3433.7	3707.0	3758.5	4021.7
17.5°	2508.1	2520.9	2535.2	2581.1	2694.0	2888.7	3179.0	3505.3	3810.0	3855.7	4179.1
20°	2549.5	2556.7	2558.1	2589.6	2689.7	2885.8	3204.8	3574.0	3907.3	3968.8	4335.0
22.5°	2602.5	2605.3	2602.5	2623.9	2717.0	2907.2	3239.1	3656.9	4016.1	4073.2	4492.5
25°	2850.0	2795.6	2726.9	2685.4	2762.7	2948.7	3290.7	3768.5	4134.7	4190.5	4645.5
27.5°	3618.2	3462.3	3216.2	2940.1	2857.1	3008.8	3362.2	3881.6	4255.0	4305.0	4810.0
30°	4865.9	4661.3	4243.5	3621.1	3160.5	3134.7	3455.2	3994.5	4382.3	4436.6	4986.0
32.5°	6116.3	6066.3	5584.1	4722.8	3842.9	3415.1	3609.6	4147.7	4551.1	4594.0	5223.5
35°	7381.0	7279.4	6884.6	6033.4	4894.5	3985.9	3867.2	4347.9	4772.8	4821.5	5569.7
37.5°	8349.6	8288.2	8043.5	7342.4	6142.0	4867.3	4307.9	4658.4	5094.8	5149.1	6013.3
40°	9205.2	9176.6	9093.6	8631.5	7537.0	6020.4	4993.2	5139.1	5541.2	5605.5	6556.9
42.5°	9877.6	9944.9	9992.1	9863.4	8974.9	7336.7	5914.6	5814.4	6163.5	6229.3	7249.4
45°	10565.8	10588.7	10779.0	10964.9	10402.7	8713.0	6953.3	6605.6	6937.5	7019.1	8079.3
47.5°	11007.9	11099.5	11434.3	11761.9	11603.1	10077.9	8069.2	7539.9	7834.6	7987.6	9009.2
50°	11040.8	11213.9	11674.6	12245.5	12477.2	11377.0	9282.5	8604.3	8917.6	9086.4	10002.2
52.5°	10492.8	10761.8	11475.8	12311.3	12949.3	12477.2	10537.2	9668.7	10070.8	10291.1	11032.2
55°	8044.9	8396.9	10727.4	11953.7	12968.0	13311.4	11759.0	10777.6	11355.6	11604.5	12145.3
57.5°	7009.1	7186.5	8434.0	11332.7	12623.2	13647.6	12863.5	11833.4	12753.4	13062.4	13196.9
60°	5831.6	6064.8	7073.4	10316.8	12155.4	13680.5	13839.2	13195.4	14268.5	14616.2	14161.2
62.5°	3963.1	4216.3	5219.2	8571.4	11515.8	13664.8	14639.0	14597.5	15952.5	16325.9	14978.1
65°	2455.1	2614.0	3274.9	6999.0	10621.6	13681.9	15476.1	16300.1	17729.4	18108.6	15610.5
67.5°	1940.0	2013.0	2357.8	5373.8	9080.8	13295.6	16311.5	17901.1	19401.9	19702.3	15803.7
70°	1303.4	1347.8	1715.4	3602.6	6755.8	11512.9	16295.9	18705.1	20263.2	20413.4	15099.8
72.5°	686.7	721.1	1003.0	1668.2	4080.4	8183.7	13736.2	17743.7	19406.2	19180.1	12906.5
75°	343.4	400.6	675.3	847.0	1742.6	4564.0	8529.9	13989.5	15274.2	14398.7	8281.0
77.5°	260.3	314.8	558.0	558.0	606.6	1536.6	3612.5	7630.0	7037.6	5860.2	2430.8
80°	165.9	214.6	487.9	422.1	253.3	390.6	941.4	2137.5	1495.1	1137.4	442.1
82.5°	97.3	140.2	406.3	279.0	141.7	144.5	266.1	455.0	387.8	301.9	135.9
85°	38.6	91.5	279.0	110.2	55.8	35.8	80.2	97.3	80.2	60.1	34.3
87.5°	0.0	21.4	48.7	0.0	4.3	2.9	5.7	7.2	7.2	5.7	11.5
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°	3533.9	3533.9	3533.9	3533.9	3533.9	3533.9	3533.9	3533.9	3533.9	3533.9	3533.9
2.5°	3549.6	3552.4	3561.1	3562.5	3542.4	3516.7	3506.6	3502.4	3485.2	3483.8	3486.6
5°	3592.5	3605.4	3592.5	3555.3	3466.7	3342.1	3247.7	3170.4	3100.3	3078.9	3066.0
7.5°	3678.3	3691.2	3652.6	3506.6	3283.5	3035.9	2812.8	2655.4	2513.8	2460.8	2439.4
10°	3801.4	3818.5	3697.0	3402.3	3007.4	2609.6	2231.9	1965.8	1758.4	1673.9	1638.2
12.5°	3955.9	3963.1	3721.3	3243.4	2648.3	2080.2	1545.2	1260.4	1075.9	1007.3	985.7
15°	4126.1	4116.2	3724.1	3027.3	2159.0	1470.8	1008.7	828.4	754.0	731.1	731.1
17.5°	4305.0	4263.5	3666.9	2715.5	1622.5	1005.8	748.2	705.3	692.5	686.7	685.3
20°	4481.0	4388.0	3562.5	2307.8	1164.6	751.1	679.6	666.8	659.6	656.7	653.8
22.5°	4641.2	4482.4	3383.6	1834.1	845.5	663.9	642.4	631.0	618.1	612.3	610.9
25°	4797.2	4536.8	3131.8	1392.1	676.7	620.9	603.7	582.3	565.1	558.0	555.1
27.5°	4948.8	4571.1	2817.1	1030.1	603.7	580.9	549.4	519.4	506.5	503.6	500.7
30°	5110.5	4582.6	2459.4	768.3	559.4	530.7	485.0	450.7	443.5	445.0	445.0
32.5°	5308.0	4599.8	2098.9	629.6	522.2	470.7	416.4	380.6	374.8	380.6	379.1
35°	5544.0	4634.1	1751.2	579.4	489.3	409.2	350.5	320.5	314.8	319.1	317.6
37.5°	5864.5	4689.9	1426.4	569.4	462.1	357.7	294.7	270.4	270.4	271.8	270.4
40°	6290.8	4838.7	1136.0	562.3	447.8	319.1	249.0	238.9	243.2	246.1	246.1
42.5°	6810.2	5154.8	940.0	553.7	432.0	301.9	226.0	221.8	228.9	231.8	231.8
45°	7392.5	5555.5	871.4	539.4	417.8	313.3	216.1	210.3	218.9	220.4	221.8
47.5°	7994.8	5947.5	862.7	523.7	403.4	330.5	213.2	200.3	210.3	211.8	213.2
50°	8604.3	6203.6	871.4	499.3	380.6	330.5	214.6	190.2	198.8	203.2	204.6
52.5°	9218.1	6320.9	865.6	446.4	340.5	310.5	214.6	181.7	190.2	193.1	193.1
55°	9813.2	6298.0	778.3	367.7	289.0	274.7	208.9	174.6	180.3	181.7	181.7
57.5°	10283.9	5978.9	616.6	286.2	234.6	228.9	190.2	165.9	170.3	168.8	168.8
60°	10530.0	5277.9	440.6	220.4	184.6	180.3	167.4	154.5	157.3	150.3	148.8
62.5°	10532.9	4350.8	294.7	174.6	147.4	143.1	143.1	138.8	135.9	121.6	117.4
65°	10308.3	3322.1	196.0	138.8	118.8	111.6	120.1	118.8	108.8	88.7	85.8
67.5°	9799.0	2177.5	148.8	108.8	91.5	87.2	95.8	100.1	93.0	74.4	73.0
70°	8751.7	1267.6	123.0	84.5	68.7	64.4	77.3	85.8	77.3	60.1	57.2
72.5°	7269.4	683.9	100.1	62.9	47.3	42.9	61.5	70.1	61.5	44.4	42.9
75°	4717.0	366.2	77.3	41.5	24.3	27.2	45.8	51.5	42.9	28.6	25.7
77.5°	1583.8	161.6	48.7	20.0	11.5	11.5	27.2	31.5	20.0	10.0	8.6
80°	353.4	67.2	20.0	8.6	4.3	4.3	5.7	5.7	2.9	0.0	0.0
82.5°	115.9	27.2	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.4	10.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	1.4	0.0	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)