

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: P967332

Luminaire Tested: **NVN-SB4D-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4D-827-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28508.3 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

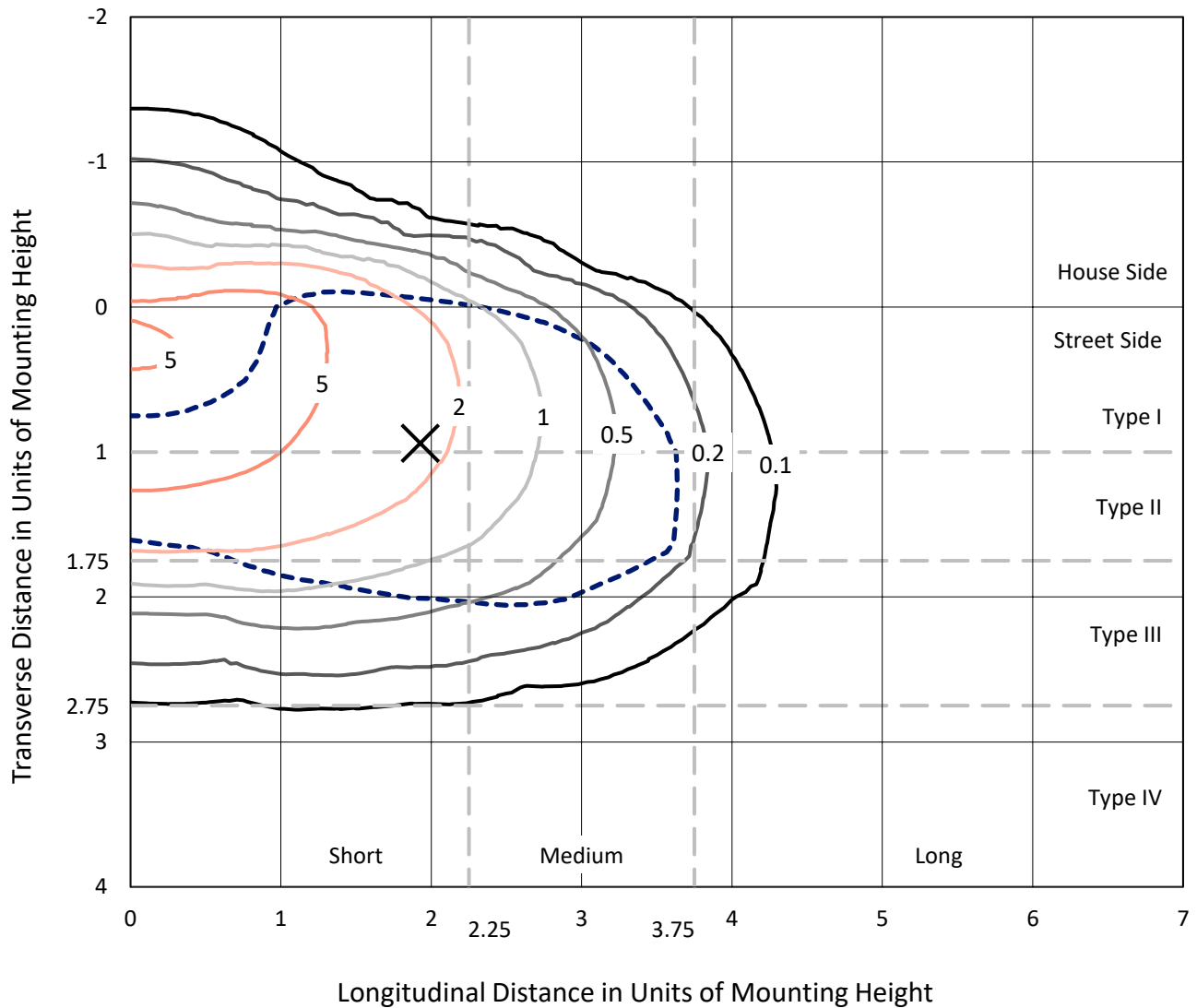
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

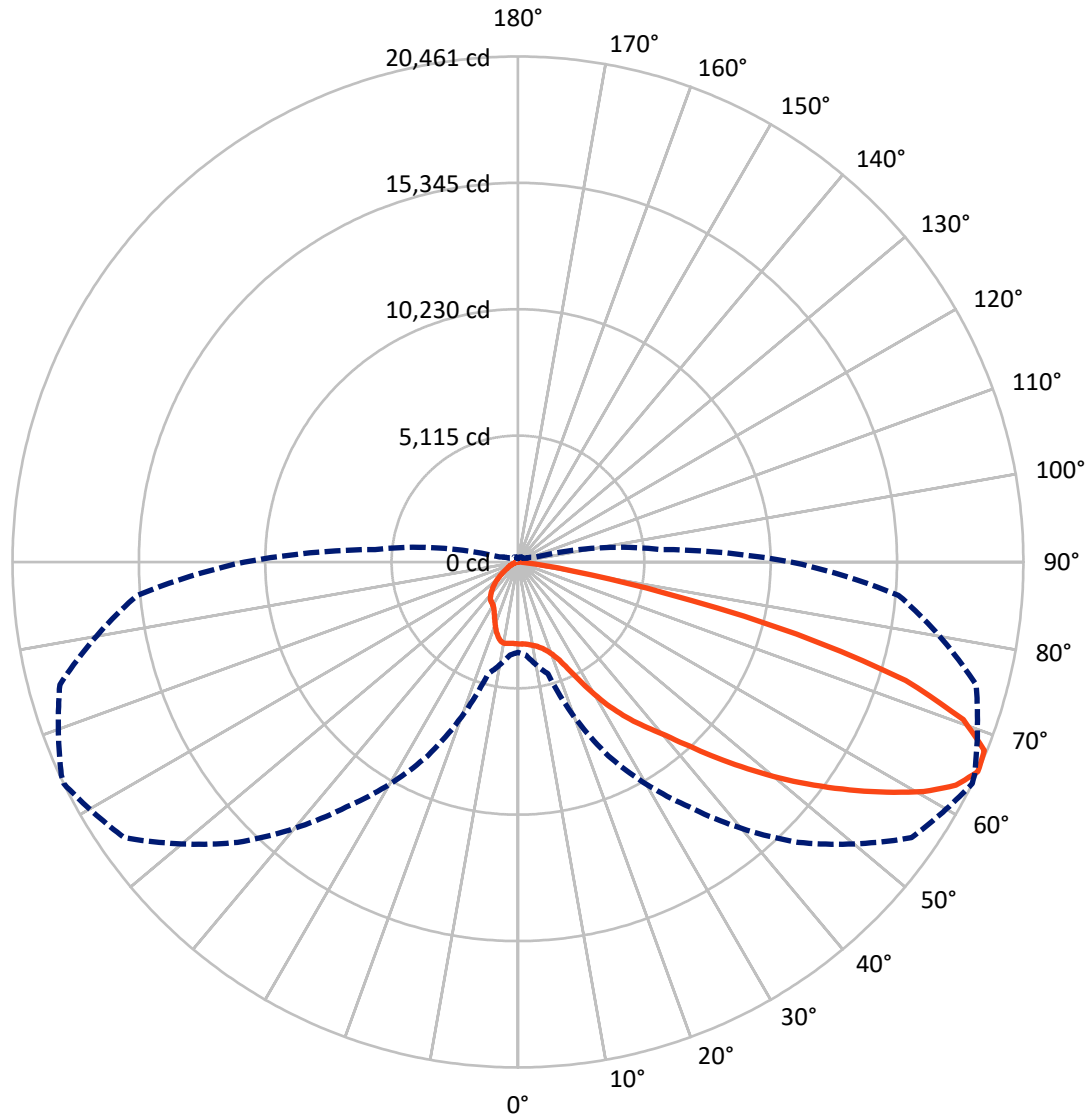
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	3812.4	0.0	3812.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	24695.9	0.0	24695.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	28508.3	0.0	28508.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.9	1.1
10°-20°	829.7	2.9
20°-30°	1572.3	5.5
30°-40°	3181.5	11.2
40°-50°	5419.8	19.0
50°-60°	7370.5	25.9
60°-70°	6921.3	24.3
70°-80°	2773.0	9.7
80°-90°	134.3	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°	28508.3	100.0
0°-180°	28508.3	100.0

Coefficient of Utilization



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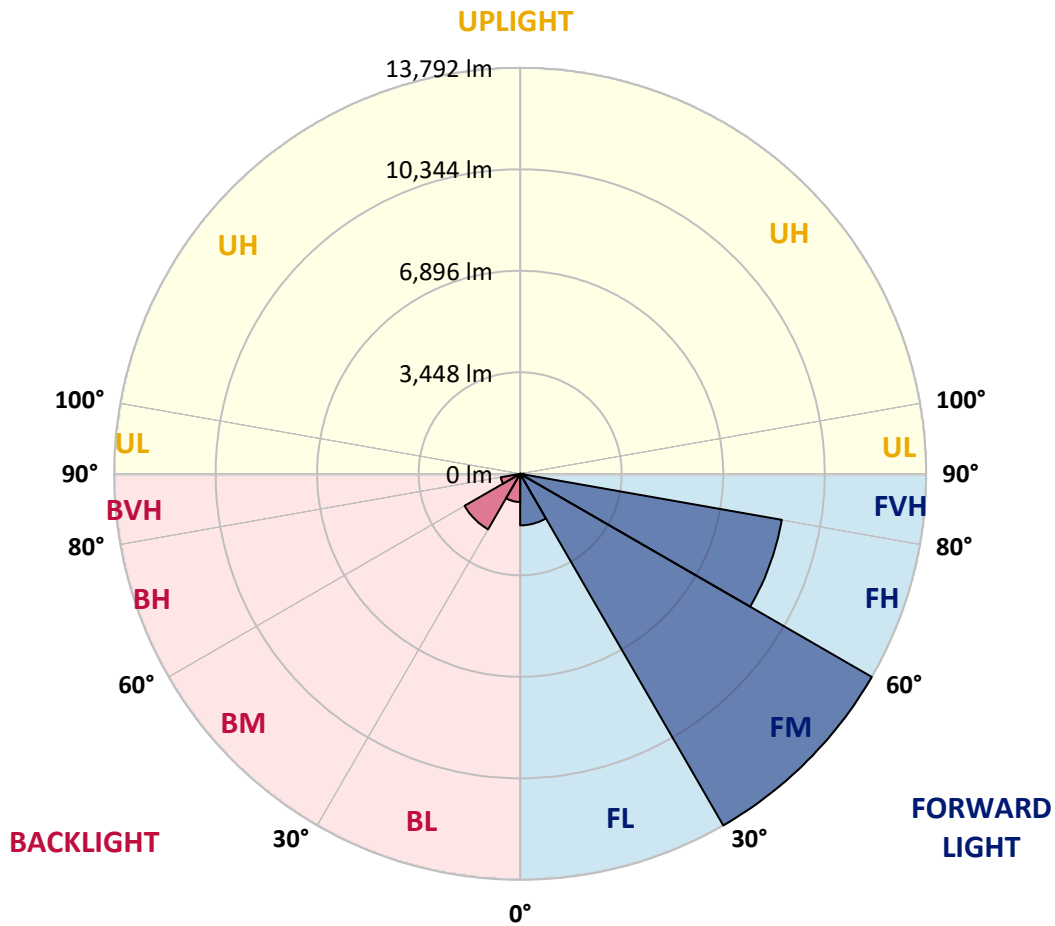
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1750.7	6.1			
FM (30°-60°)	13792.3	48.4			
FH (60°-80°)	9025.1	31.7			G4/12000
FVH (80°-90°)	127.8	0.4			G2/225
BL (0°-30°)	957.2	3.4	B2/1000		
BM (30°-60°)	2179.5	7.6	B2/2500		
BH (60°-80°)	669.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.6	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3315.8	3315.8	3315.8	3315.8	3315.8	3315.8	3315.8	3315.8	3315.8	3315.8	3315.8
2.5°	3304.4	3327.3	3321.5	3315.8	3313.9	3317.7	3319.7	3317.7	3317.7	3317.7	3319.7
5°	3241.3	3260.4	3260.4	3273.7	3292.9	3315.8	3333.0	3336.9	3340.7	3346.4	3344.5
7.5°	3120.9	3136.2	3147.7	3191.5	3239.4	3300.5	3352.2	3378.9	3382.7	3403.7	3411.4
10°	3038.7	3057.8	3076.9	3122.8	3191.5	3283.3	3371.2	3436.2	3445.7	3495.5	3518.4
12.5°	3034.9	3054.0	3078.8	3128.5	3208.8	3306.2	3413.2	3506.9	3524.2	3596.7	3644.5
15°	3075.0	3098.0	3120.9	3182.0	3268.0	3386.5	3501.2	3617.7	3635.0	3738.2	3789.7
17.5°	3157.2	3187.7	3205.0	3266.2	3357.9	3489.7	3640.7	3774.5	3789.7	3910.2	3975.2
20°	3319.7	3356.0	3361.7	3411.4	3501.2	3642.6	3822.2	3988.6	4007.6	4145.2	4217.9
22.5°	3656.0	3707.6	3661.7	3686.6	3766.9	3908.2	4103.2	4313.4	4340.2	4496.9	4561.9
25°	4248.4	4321.1	4202.6	4160.6	4194.9	4342.1	4586.7	4852.3	4882.9	5009.1	5041.6
27.5°	5412.3	5318.7	5139.0	4963.3	4860.0	4944.1	5219.3	5548.0	5586.2	5708.5	5670.3
30°	6690.9	6608.7	6366.0	5976.2	5731.5	5718.1	5972.3	6339.2	6383.2	6499.7	6383.2
32.5°	7971.3	7893.0	7629.3	7149.6	6725.2	6515.0	6690.9	7097.9	7120.9	7195.4	7023.4
35°	9230.7	9150.5	8886.8	8395.6	7873.8	7396.1	7361.7	7820.3	7828.0	7906.3	7650.3
37.5°	10497.8	10430.9	10150.1	9668.4	9154.3	8495.0	8175.8	8504.5	8514.1	8590.5	8324.8
40°	11401.8	11430.5	11237.5	10864.8	10423.3	9702.9	9089.4	9232.7	9175.4	9303.4	9144.7
42.5°	12177.7	12235.1	12066.9	11879.6	11623.5	10989.0	10220.7	10195.9	10104.1	10172.9	10008.6
45°	12848.6	12896.3	12745.4	12701.4	12695.6	12250.4	11457.2	11308.2	11180.1	11166.8	10969.9
47.5°	13095.1	13186.8	13251.8	13398.9	13685.6	13498.3	12735.8	12504.5	12361.2	12256.1	11944.5
50°	13188.7	13286.2	13507.9	13936.0	14614.4	14694.7	14008.6	13748.7	13572.8	13381.8	12923.1
52.5°	13062.6	13236.5	13534.6	14255.1	15239.4	15654.1	15229.9	15002.4	14801.7	14490.2	13809.8
55°	12319.2	12493.1	13102.7	14251.3	15550.9	16326.8	16384.1	16282.8	16057.3	15566.2	14526.5
57.5°	10752.0	11010.0	11975.2	13765.9	15545.1	16905.8	17515.5	17588.2	17335.9	16632.6	15090.3
60°	8581.0	8930.7	10107.9	12689.9	15065.4	17219.3	18507.4	18870.6	18602.9	17683.7	15547.1
62.5°	5987.5	6392.7	7506.9	11004.3	13968.5	16993.8	19231.8	19902.5	19700.0	18623.9	15722.9
65°	3652.2	3782.1	4680.4	8659.3	12103.2	16049.7	19455.3	20460.5	20393.7	19199.3	15462.9
67.5°	2432.8	2541.8	2799.8	5937.9	9395.2	14163.4	18920.2	20363.2	20382.2	19105.6	14511.2
70°	1465.9	1559.4	1727.6	3453.4	6088.9	11210.7	17263.3	19120.9	19231.8	17853.8	12707.1
72.5°	603.9	667.0	819.9	1565.2	3153.4	7115.1	13746.8	16416.6	16674.6	15011.9	9752.5
75°	342.0	374.5	481.6	785.5	1368.4	3315.8	8326.8	11654.0	12034.4	10346.9	5867.2
77.5°	227.4	242.7	311.5	508.4	770.2	1131.4	3558.5	6071.7	6797.9	5651.2	2539.8
80°	152.9	166.3	214.0	340.2	500.7	485.4	1133.3	2249.4	2767.3	1941.8	619.2
82.5°	103.2	105.1	152.9	223.6	317.2	235.0	334.5	699.5	879.1	561.9	235.0
85°	59.2	57.3	112.7	130.0	141.4	97.5	101.3	210.2	275.2	237.0	133.8
87.5°	7.7	11.5	44.0	34.4	19.1	21.0	21.0	36.3	53.5	57.3	28.7
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°	3315.8	3315.8	3315.8	3315.8	3315.8	3315.8	3315.8	3315.8	3315.8	3315.8	3315.8
2.5°	3319.7	3317.7	3312.0	3306.2	3292.9	3285.2	3289.0	3285.2	3283.3	3285.2	3292.9
5°	3344.5	3338.7	3323.5	3304.4	3277.6	3245.1	3224.0	3193.5	3164.8	3147.7	3151.5
7.5°	3411.4	3405.7	3384.7	3331.1	3245.1	3109.4	2985.2	2876.3	2794.0	2746.3	2748.2
10°	3518.4	3508.9	3476.4	3357.9	3132.3	2836.1	2589.6	2385.1	2251.3	2188.3	2182.5
12.5°	3644.5	3633.1	3575.7	3333.0	2918.3	2455.8	2115.6	1888.2	1764.0	1708.6	1702.8
15°	3793.6	3778.4	3665.5	3214.5	2606.8	2035.3	1723.8	1553.8	1473.4	1423.8	1425.7
17.5°	3978.9	3952.2	3732.4	3036.8	2268.5	1714.3	1483.1	1354.9	1284.3	1236.5	1232.7
20°	4219.8	4175.8	3785.9	2824.7	1957.0	1511.7	1320.6	1213.6	1160.1	1118.0	1110.4
22.5°	4556.1	4493.1	3850.9	2595.3	1737.2	1372.2	1200.2	1121.9	1077.9	1030.1	1022.4
25°	4972.8	4898.3	3931.2	2383.2	1586.3	1251.8	1112.3	1047.3	995.7	940.2	934.5
27.5°	5555.7	5421.8	4026.7	2209.3	1456.3	1148.6	1032.0	959.4	900.2	854.2	844.7
30°	6205.5	5985.7	4110.9	2104.1	1337.8	1053.1	926.9	854.2	798.9	766.4	760.7
32.5°	6820.9	6522.7	4166.3	2058.3	1230.8	944.1	812.2	733.9	691.9	682.2	688.0
35°	7401.8	7008.1	4160.6	2014.3	1135.2	835.2	699.5	619.2	586.7	592.4	592.4
37.5°	8070.7	7526.1	4120.4	1945.6	1056.9	735.7	602.0	531.3	502.7	504.5	512.2
40°	8848.5	8124.3	4095.6	1815.6	970.9	644.0	521.7	464.4	443.4	435.7	433.8
42.5°	9677.9	8703.3	4099.4	1668.4	863.9	561.9	466.3	418.5	399.4	393.7	391.8
45°	10511.3	9255.6	4105.1	1515.6	751.1	498.8	426.2	386.0	374.5	367.0	367.0
47.5°	11294.8	9725.7	3998.1	1351.2	640.2	451.0	393.7	367.0	357.4	347.8	347.8
50°	12024.9	10039.2	3740.1	1160.1	552.3	412.8	368.9	349.7	340.2	330.7	330.7
52.5°	12592.4	10088.9	3313.9	963.2	491.2	384.2	353.5	336.4	324.9	315.3	313.4
55°	12844.7	9777.4	2708.0	779.7	443.4	359.3	338.2	321.0	307.7	298.2	296.2
57.5°	12779.7	9121.8	2111.8	626.9	397.5	334.5	319.2	307.7	292.4	277.2	275.2
60°	12460.6	8244.6	1591.9	521.7	355.5	307.7	298.2	288.5	267.5	244.7	240.8
62.5°	11908.2	7141.9	1135.2	431.9	309.7	277.2	273.3	265.7	235.0	193.0	189.2
65°	11063.5	5802.2	764.4	359.3	265.7	242.7	244.7	231.2	191.2	143.3	139.5
67.5°	9828.9	4242.7	489.2	294.3	221.7	202.5	204.5	196.8	162.5	122.3	116.5
70°	8256.1	2809.3	319.2	223.6	177.7	156.7	168.2	170.0	137.6	99.4	95.5
72.5°	6052.5	1658.9	223.6	166.3	130.0	109.0	137.6	141.4	110.8	74.5	70.7
75°	3449.6	787.4	168.2	120.4	80.3	76.5	107.0	107.0	76.5	49.7	45.8
77.5°	1448.6	328.7	118.5	78.3	45.8	44.0	72.7	66.9	38.2	23.0	23.0
80°	418.5	147.2	63.0	38.2	19.1	17.2	28.7	21.0	9.5	3.8	3.8
82.5°	164.3	65.0	24.8	15.3	7.7	7.7	3.8	0.0	0.0	0.0	0.0
85°	97.5	26.8	11.5	5.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.8	5.7	3.8	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)