

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: P968914

Luminaire Tested: **NVN-SB5C-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968914
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-SB5C-827-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA 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: 28071.7 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

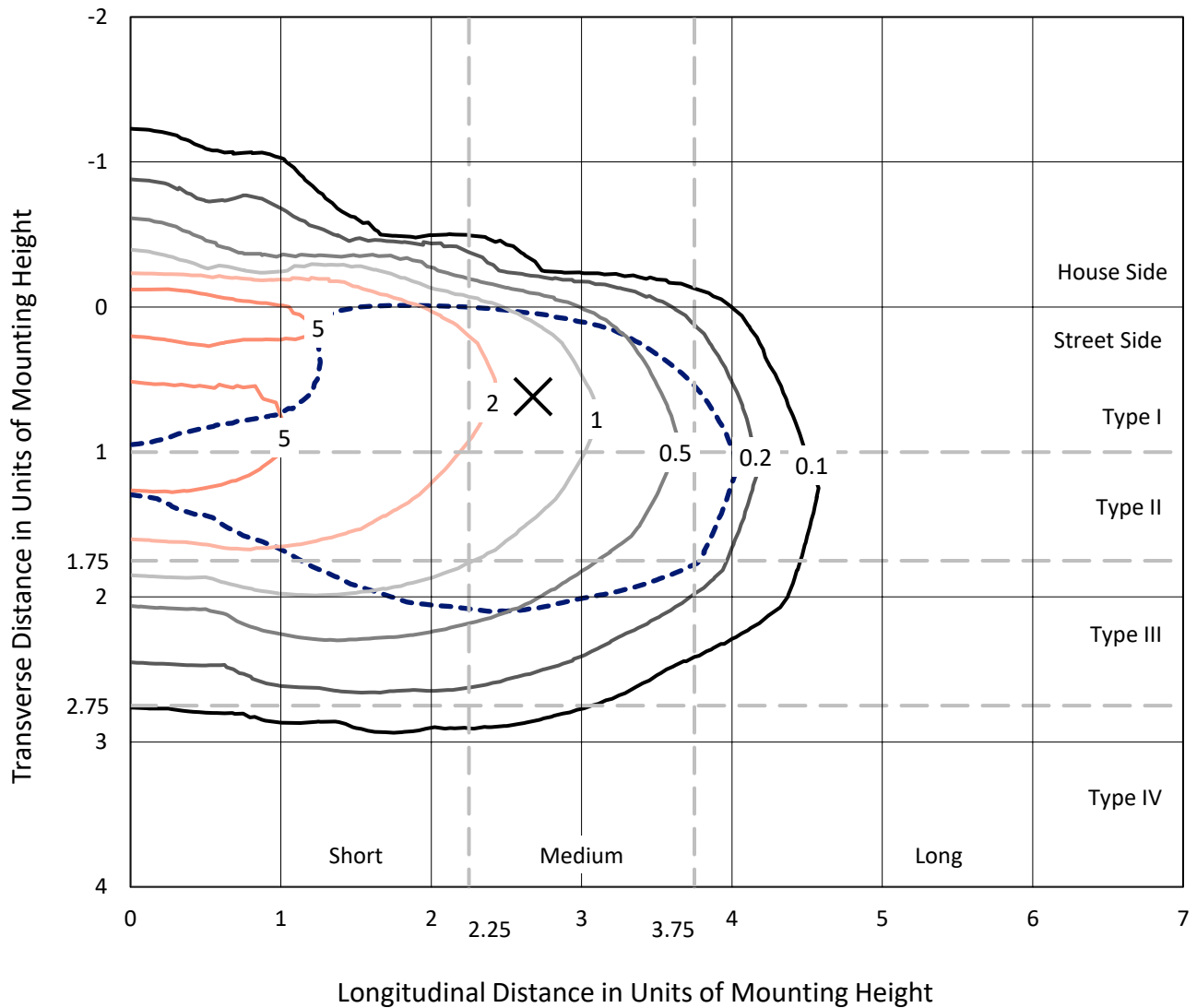
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P968914
 CATALOG NUMBER: NVN-SB5C-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

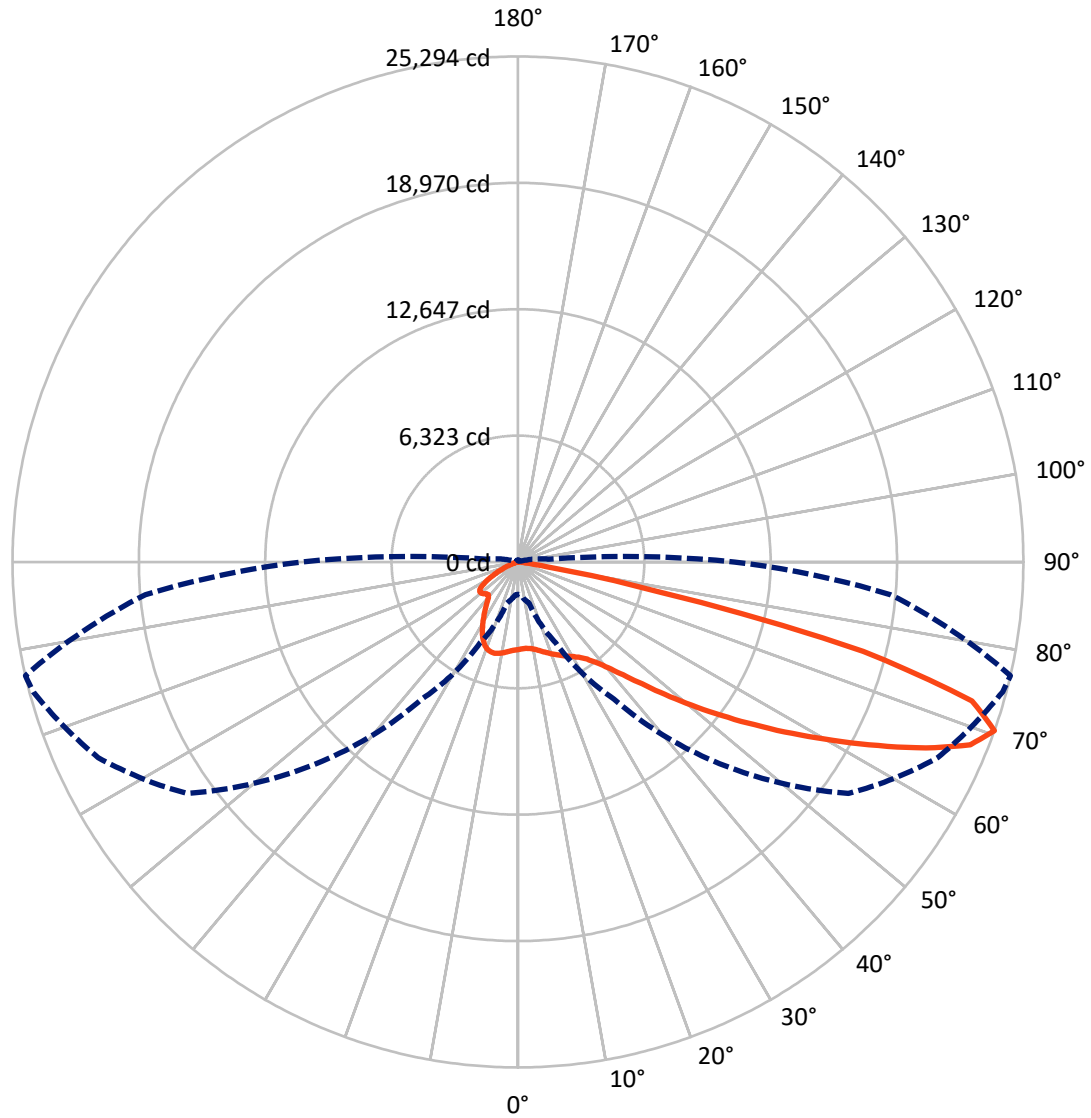
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P968914
CATALOG NUMBER: NVN-SB5C-827-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P968914
 CATALOG NUMBER: NVN-SB5C-827-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2959.1	0.0	2959.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	25112.5	0.0	25112.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	28071.7	0.0	28071.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.4	1.3
10°-20°	895.8	3.2
20°-30°	1385.6	4.9
30°-40°	2514.3	9.0
40°-50°	4746.0	16.9
50°-60°	6857.5	24.4
60°-70°	7299.7	26.0
70°-80°	3868.3	13.8
80°-90°	127.0	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°	28071.7	100.0
0°-180°	28071.7	100.0

Coefficient of Utilization



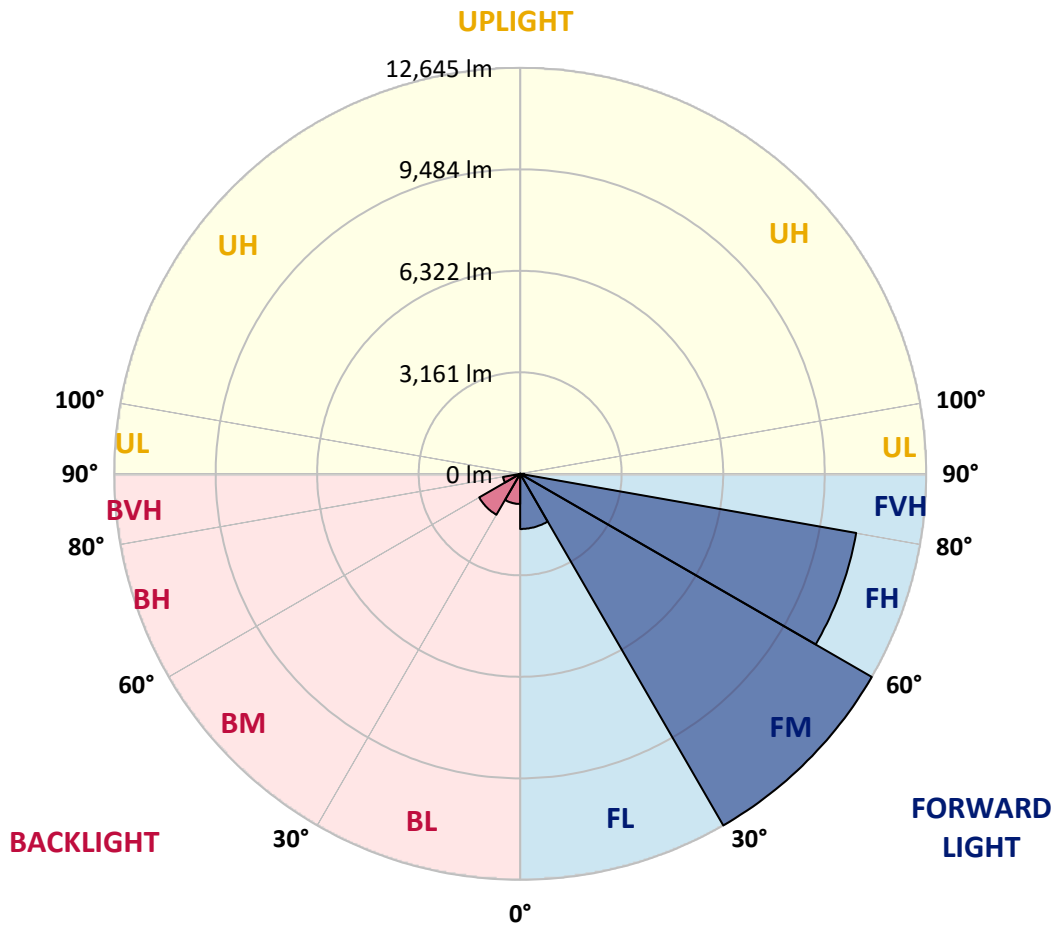
REPORT NUMBER: P968914
 CATALOG NUMBER: NVN-SB5C-827-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.6	6.1			
FM (30°-60°)	12644.7	45.0			
FH (60°-80°)	10625.5	37.9			G4/12000
FVH (80°-90°)	123.6	0.4			G2/225
BL (0°-30°)	940.2	3.3	B2/1000		
BM (30°-60°)	1473.1	5.2	B2/2500		
BH (60°-80°)	542.5	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.4	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



REPORT NUMBER: P968914
 CATALOG NUMBER: NVN-SB5C-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7
2.5°	4111.0	4148.2	4142.9	4167.8	4176.6	4212.0	4247.5	4295.4	4348.6	4346.7	4382.2
5°	3878.8	3916.0	3924.8	3958.6	4001.1	4056.0	4128.7	4224.4	4323.8	4339.6	4410.6
7.5°	3604.0	3643.0	3666.0	3733.4	3811.4	3924.8	4043.6	4183.6	4348.6	4371.6	4508.1
10°	3329.2	3364.7	3394.8	3490.5	3614.7	3783.1	3976.3	4178.3	4399.9	4433.6	4626.8
12.5°	3159.0	3192.7	3226.4	3309.7	3464.0	3669.6	3931.9	4203.2	4485.0	4532.9	4788.2
15°	3098.8	3128.9	3155.5	3230.0	3373.5	3607.5	3923.1	4254.6	4593.1	4657.0	4983.1
17.5°	3107.6	3123.6	3141.3	3198.0	3338.1	3579.2	3939.1	4343.2	4720.8	4777.5	5178.2
20°	3159.0	3167.9	3169.7	3208.7	3332.8	3575.6	3971.0	4428.3	4841.4	4917.5	5371.4
22.5°	3224.6	3228.1	3224.6	3251.2	3366.4	3602.3	4013.5	4531.1	4976.1	5047.0	5566.4
25°	3531.3	3464.0	3378.8	3327.5	3423.2	3653.6	4077.3	4669.4	5123.3	5192.3	5756.1
27.5°	4483.2	4290.0	3985.1	3643.0	3540.1	3728.0	4165.9	4809.4	5272.1	5334.2	5960.0
30°	6029.0	5775.6	5257.9	4486.8	3916.0	3884.0	4281.2	4949.5	5429.9	5497.3	6178.0
32.5°	7578.4	7516.4	6919.1	5851.8	4761.6	4231.5	4472.6	5139.1	5639.1	5692.2	6472.3
35°	9145.6	9019.7	8530.5	7475.6	6064.5	4938.9	4791.8	5387.4	5913.8	5974.1	6901.3
37.5°	10345.7	10269.5	9966.4	9097.7	7610.4	6030.9	5337.7	5772.1	6312.8	6380.1	7450.8
40°	11405.8	11370.3	11267.5	10695.0	9338.8	7459.7	6186.9	6367.7	6865.9	6945.6	8124.5
42.5°	12239.0	12322.3	12380.9	12221.3	11120.4	9090.6	7328.5	7204.4	7637.0	7718.6	8982.5
45°	13091.7	13120.1	13355.9	13586.3	12889.6	10796.0	8615.5	8184.7	8596.1	8697.1	10010.7
47.5°	13639.5	13752.9	14167.8	14573.8	14377.0	12487.2	9998.3	9342.4	9707.6	9897.2	11163.0
50°	13680.3	13894.8	14465.6	15172.9	15460.1	14096.8	11501.5	10661.2	11049.5	11258.7	12393.3
52.5°	13001.3	13334.5	14219.2	15254.5	16045.0	15460.1	13056.2	11980.2	12478.3	12751.3	13669.6
55°	9968.1	10404.3	13292.0	14811.2	16068.1	16493.6	14570.2	13354.1	14070.3	14378.7	15048.8
57.5°	8684.6	8904.5	10450.3	14041.9	15640.9	16910.1	15938.7	14662.3	15802.2	16185.2	16351.8
60°	7225.7	7514.7	8764.5	12783.3	15061.2	16950.9	17147.7	16350.0	17679.6	18110.3	17546.6
62.5°	4910.5	5224.3	6466.9	10620.5	14268.8	16931.5	18138.7	18087.3	19766.1	20228.8	18558.9
65°	3042.0	3238.8	4057.8	8672.2	13160.8	16952.8	19175.8	20196.9	21967.8	22437.6	19342.4
67.5°	2403.8	2494.2	2921.5	6658.4	11251.6	16474.1	20211.1	22180.6	24040.1	24412.4	19581.7
70°	1615.0	1669.9	2125.5	4463.8	8370.9	14265.2	20191.6	23176.8	25107.4	25293.5	18709.5
72.5°	851.0	893.5	1242.7	2067.0	5055.8	10140.1	17020.1	21985.5	24045.5	23765.3	15991.9
75°	425.5	496.4	836.7	1049.5	2159.2	5655.0	10569.1	17333.9	18925.8	17840.8	10260.7
77.5°	322.7	390.0	691.4	691.4	751.6	1903.9	4476.2	9454.1	8720.1	7261.2	3011.9
80°	205.6	265.9	604.5	523.0	313.8	484.0	1166.4	2648.5	1852.5	1409.4	547.8
82.5°	120.5	173.7	503.5	345.7	175.5	179.1	329.7	563.8	480.4	374.0	168.4
85°	47.9	113.5	345.7	136.5	69.2	44.3	99.3	120.5	99.3	74.4	42.5
87.5°	0.0	26.5	60.3	0.0	5.3	3.6	7.1	8.8	8.8	7.1	14.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P968914
 CATALOG NUMBER: NVN-SB5C-827-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7	4378.7
2.5°	4398.2	4401.8	4412.3	4414.2	4389.4	4357.4	4345.0	4339.6	4318.4	4316.6	4320.2
5°	4451.4	4467.4	4451.4	4405.2	4295.4	4141.1	4024.2	3928.4	3841.5	3814.9	3799.0
7.5°	4557.8	4573.7	4525.8	4345.0	4068.4	3761.7	3485.2	3290.2	3114.7	3049.1	3022.5
10°	4710.2	4731.4	4580.7	4215.6	3726.3	3233.5	2765.4	2435.7	2178.7	2074.1	2029.8
12.5°	4901.7	4910.5	4610.9	4018.8	3281.3	2577.6	1914.6	1561.8	1333.1	1248.0	1221.4
15°	5112.6	5100.2	4614.4	3751.1	2675.0	1822.3	1249.8	1026.4	934.2	905.9	905.9
17.5°	5334.2	5282.7	4543.5	3364.7	2010.3	1246.2	927.1	873.9	858.0	851.0	849.1
20°	5552.2	5437.0	4414.2	2859.4	1443.0	930.7	842.0	826.0	817.2	813.6	810.2
22.5°	5750.8	5554.0	4192.6	2272.6	1047.7	822.6	795.9	781.8	765.8	758.7	757.0
25°	5944.0	5621.4	3880.5	1724.9	838.6	769.4	748.1	721.5	700.3	691.4	687.8
27.5°	6132.0	5663.9	3490.5	1276.3	748.1	719.8	680.7	643.5	627.5	624.0	620.4
30°	6332.2	5678.1	3047.3	951.9	693.1	657.6	601.0	558.4	549.5	551.3	551.3
32.5°	6576.9	5699.4	2600.6	780.0	647.1	583.2	515.9	471.5	464.4	471.5	469.8
35°	6869.3	5741.9	2169.8	717.9	606.3	507.0	434.3	397.1	390.0	395.3	393.6
37.5°	7266.4	5811.0	1767.4	705.5	572.6	443.2	365.2	335.1	335.1	336.8	335.1
40°	7794.7	5995.4	1407.5	696.7	554.8	395.3	308.4	296.0	301.3	304.9	304.9
42.5°	8438.2	6387.2	1164.7	686.0	535.4	374.0	280.1	274.8	283.6	287.2	287.2
45°	9159.8	6883.6	1079.6	668.3	517.6	388.3	267.7	260.6	271.2	273.0	274.8
47.5°	9906.1	7369.3	1069.0	648.8	499.9	409.5	264.1	248.2	260.6	262.4	264.1
50°	10661.2	7686.6	1079.6	618.7	471.5	409.5	265.9	235.7	246.4	251.7	253.5
52.5°	11421.8	7832.0	1072.6	553.1	421.9	384.7	265.9	225.1	235.7	239.3	239.3
55°	12159.3	7803.6	964.4	455.6	358.1	340.4	258.8	216.3	223.3	225.1	225.1
57.5°	12742.5	7408.3	764.0	354.5	290.7	283.6	235.7	205.6	210.9	209.2	209.2
60°	13047.4	6539.6	546.0	273.0	228.7	223.3	207.5	191.5	195.0	186.1	184.4
62.5°	13050.9	5390.9	365.2	216.3	182.6	177.3	177.3	172.0	168.4	150.7	145.3
65°	12772.6	4116.3	242.8	172.0	147.1	138.3	148.9	147.1	134.7	109.9	106.4
67.5°	12141.5	2698.1	184.4	134.7	113.5	108.1	118.8	124.1	115.2	92.1	90.4
70°	10843.9	1570.6	152.4	104.6	85.1	79.7	95.7	106.4	95.7	74.4	70.9
72.5°	9007.3	847.4	124.1	78.0	58.5	53.2	76.3	86.8	76.3	54.9	53.2
75°	5844.8	453.9	95.7	51.5	30.1	33.7	56.7	63.9	53.2	35.5	31.9
77.5°	1962.5	200.3	60.3	24.8	14.1	14.1	33.7	38.9	24.8	12.4	10.7
80°	437.9	83.3	24.8	10.7	5.3	5.3	7.1	7.1	3.6	0.0	0.0
82.5°	143.6	33.7	10.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.9	12.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.3	1.7	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)