

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: P968366

Luminaire Tested: **NVN-SB5B-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5B-827-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21616.2 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 182.7
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

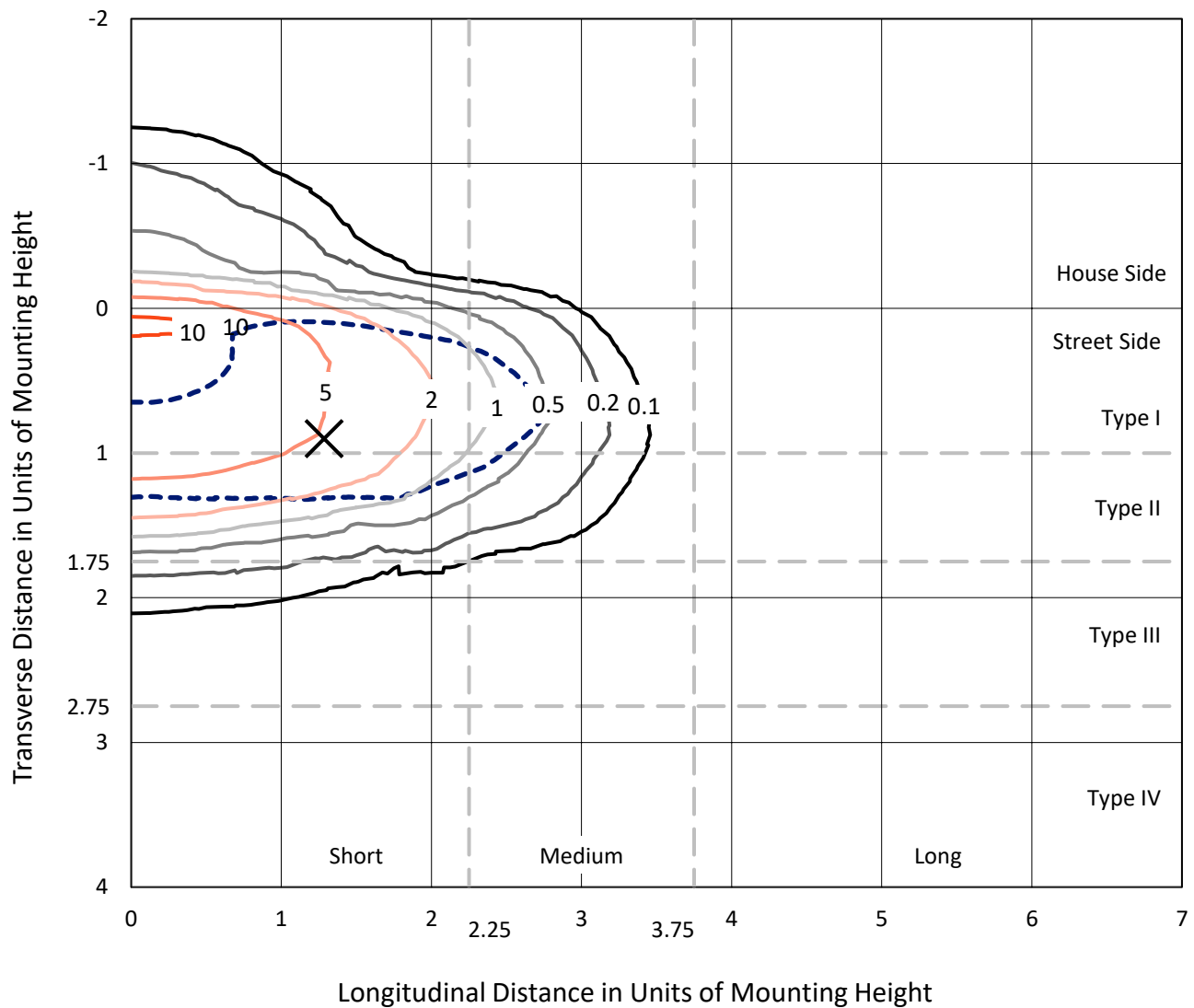


REPORT NUMBER: P968366

CATALOG NUMBER: NVN-SB5B-827-U-AFL-HSS

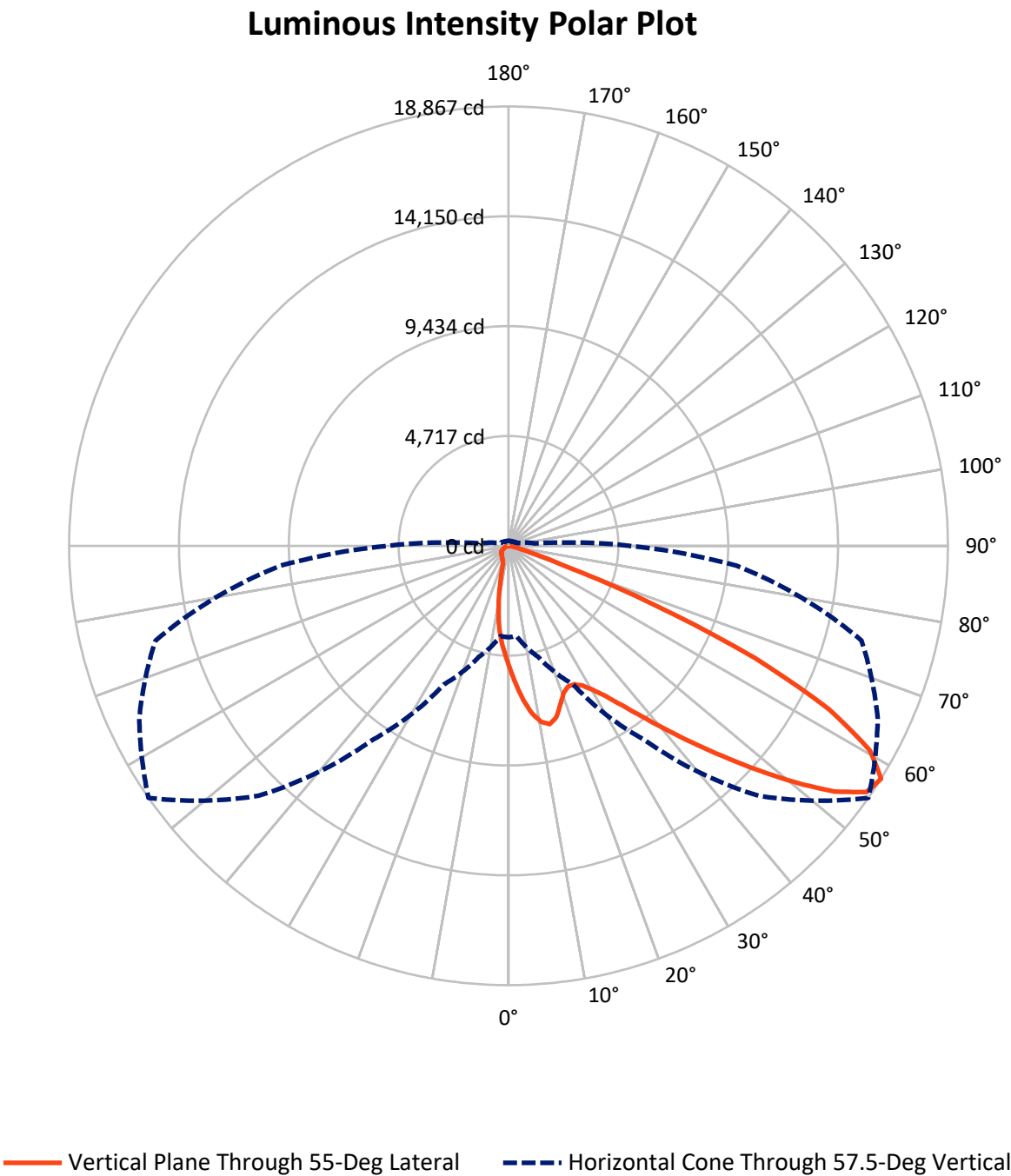
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
Type II - Short - N/A

REPORT NUMBER: P968366
CATALOG NUMBER: NVN-SB5B-827-U-AFL-HSS



REPORT NUMBER: P968366

CATALOG NUMBER: NVN-SB5B-827-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1688.1	0.0	1688.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	19928.1	0.0	19928.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	21616.2	0.0	21616.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.7	2.2
10°-20°	1170.7	5.4
20°-30°	1873.1	8.7
30°-40°	3170.4	14.7
40°-50°	5205.1	24.1
50°-60°	5720.8	26.5
60°-70°	3281.4	15.2
70°-80°	670.5	3.1
80°-90°	39.5	0.2
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°	21616.2	100.0
0°-180°	21616.2	100.0

Coefficient of Utilization



REPORT NUMBER: P968366

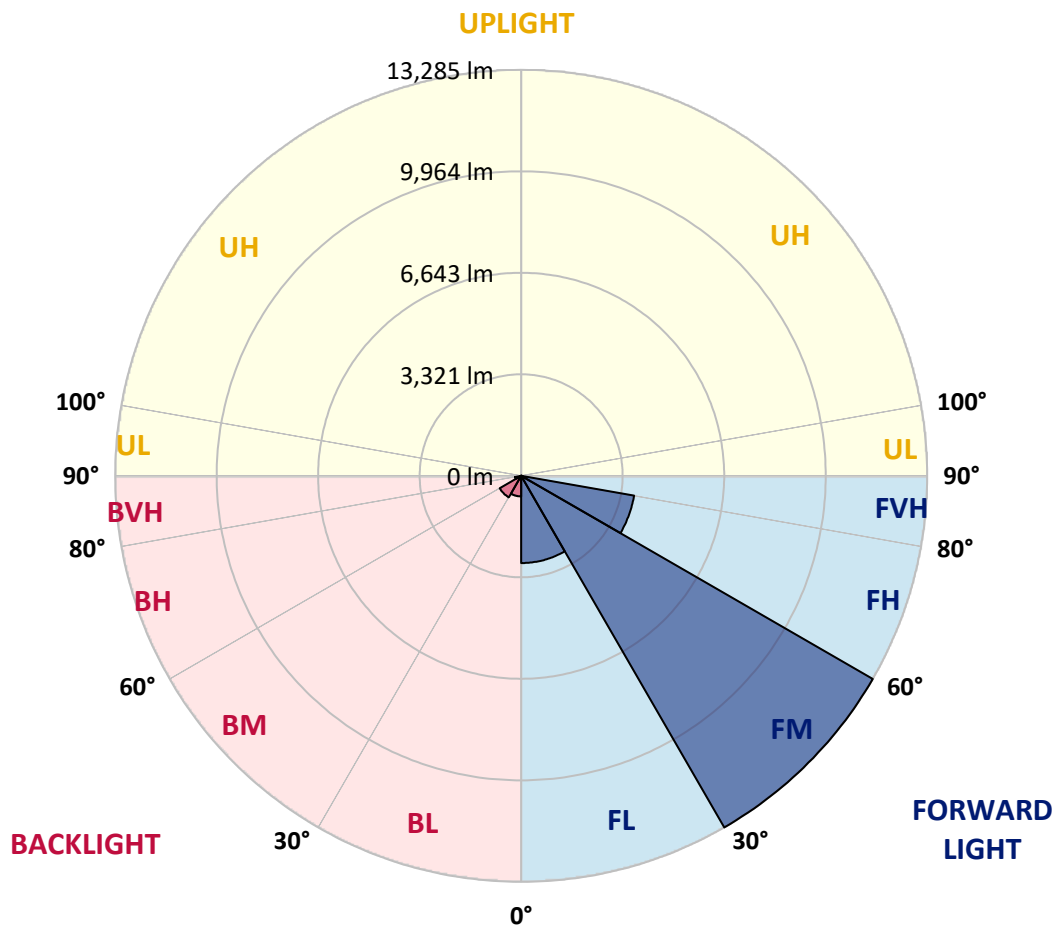
CATALOG NUMBER: NVN-SB5B-827-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2854.6	13.2			
FM	(30°-60°)	13285.5	61.5			
FH	(60°-80°)	3751.2	17.4			G2/5000
FVH	(80°-90°)	36.9	0.2			G1/100
BL	(0°-30°)	674.0	3.1	B2/1000		
BM	(30°-60°)	810.8	3.8	B1/1000		
BH	(60°-80°)	200.8	0.9	B1/500		G1/500
BVH	(80°-90°)	2.7	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-G2

Type II Short



REPORT NUMBER: P968366

CATALOG NUMBER: NVN-SB5B-827-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9
2.5°	6463.2	6382.0	6370.0	6354.0	6199.3	6083.4	5915.4	5731.5	5524.9	5314.3	5220.9
5°	7466.9	7403.0	7391.0	7316.2	7140.4	6943.0	6644.6	6267.3	5882.1	5428.9	5234.3
7.5°	7661.5	7649.5	7704.2	7701.5	7677.6	7521.6	7269.6	6820.5	6241.9	5570.2	5268.9
10°	6793.8	6824.4	6987.1	7129.7	7514.9	7738.9	7684.2	7313.6	6612.5	5731.5	5307.7
12.5°	6003.4	5967.4	6083.4	6244.6	6692.5	7359.0	7856.1	7725.5	7036.4	5914.0	5365.0
15°	5507.5	5492.9	5558.2	5632.9	5974.1	6645.9	7656.1	8060.1	7444.3	6130.0	5451.6
17.5°	5349.0	5337.0	5357.0	5375.6	5596.8	6116.7	7180.3	8265.3	7834.8	6376.6	5547.5
20°	5478.2	5462.2	5459.6	5444.9	5536.8	5891.4	6749.8	8279.9	8185.3	6600.5	5630.2
22.5°	5855.4	5836.8	5771.5	5712.8	5720.8	5922.0	6557.8	8133.4	8449.3	6809.8	5682.2
25°	6539.2	6508.5	6372.6	6175.3	6050.1	6135.3	6587.2	7940.1	8701.2	6973.7	5656.9
27.5°	7395.0	7355.0	7180.3	6887.1	6600.5	6496.6	6799.1	7806.8	8910.4	7099.0	5602.1
30°	8233.3	8181.3	8009.5	7781.5	7363.0	7035.1	7181.7	7865.4	9159.7	7229.6	5530.2
32.5°	9138.4	9089.1	8861.1	8578.5	8232.0	7790.8	7705.5	8152.0	9465.0	7412.3	5479.5
35°	10283.3	10206.0	9882.1	9496.9	9129.1	8682.5	8414.6	8646.5	9871.5	7690.9	5507.5
37.5°	11586.9	11483.0	11133.8	10601.9	10122.1	9622.2	9278.3	9326.3	10467.3	8064.1	5594.1
40°	12815.9	12721.2	12398.6	11897.5	11295.0	10688.5	10322.0	10215.4	11289.7	8518.6	5746.2
42.5°	13553.0	13467.7	13331.7	13119.8	12611.9	11993.4	11530.9	11300.3	12262.7	9062.4	5931.4
45°	13594.3	13519.6	13702.2	13948.8	13848.9	13436.9	12873.2	12450.7	13239.7	9572.9	6123.3
47.5°	12933.1	12882.5	13436.9	14298.0	14727.2	14900.5	14380.6	13505.0	14046.1	9939.4	6202.0
50°	11131.1	11112.4	12253.4	13834.2	15061.8	16182.8	15970.8	14486.0	14671.2	10128.7	6127.3
52.5°	9651.5	9583.5	10248.7	12349.3	14575.3	16857.1	17524.9	15448.3	15108.4	10164.7	5952.7
55°	7320.2	7260.3	8094.7	9864.8	13006.4	16617.3	18662.0	16441.3	15421.6	10072.8	5639.5
57.5°	3926.8	3889.4	4943.8	6565.8	10167.4	15177.8	18867.2	17491.6	15685.6	9828.8	5201.0
60°	1528.8	1522.1	1916.7	3185.6	6179.3	12348.0	17831.5	18122.1	15850.9	9528.9	4834.4
62.5°	925.1	945.0	1009.0	1430.2	2729.8	7670.9	15444.3	17405.0	15961.5	9254.3	4531.8
65°	765.1	766.4	774.4	982.4	1307.6	3209.6	11626.9	15045.8	15688.2	8765.2	4102.7
67.5°	655.8	667.8	698.4	779.7	922.4	1407.5	6693.9	11654.9	14026.1	7626.8	3433.5
70°	517.2	533.2	571.8	641.1	711.8	881.1	2473.8	7754.8	10715.1	5748.8	2596.5
72.5°	435.8	434.5	454.5	521.2	565.2	619.8	951.7	4345.3	6227.3	2744.4	1284.9
75°	337.2	350.5	375.9	435.8	462.5	449.2	515.9	1587.5	2231.3	831.7	437.2
77.5°	263.9	274.6	297.2	355.9	382.5	318.6	297.2	567.8	717.1	298.6	197.3
80°	118.6	127.9	202.6	262.6	311.9	220.0	161.2	290.6	318.6	135.9	99.9
82.5°	21.3	36.0	118.6	138.6	159.9	142.6	83.9	150.6	155.9	54.6	34.6
85°	1.3	2.7	41.3	50.6	64.0	46.6	25.3	60.0	52.0	18.7	13.3
87.5°	0.0	0.0	0.0	1.3	1.3	6.7	8.0	10.7	8.0	6.7	5.3
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: P968366

CATALOG NUMBER: NVN-SB5B-827-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9
2.5°	5125.0	4935.7	4751.8	4601.2	4513.2	4363.9	4265.3	4249.2	4207.9	4243.9
5°	5026.4	4687.8	4345.3	4038.7	3786.8	3461.5	3218.9	3116.3	3027.0	3057.7
7.5°	4979.8	4445.2	3912.0	3388.2	2849.7	2329.9	1943.4	1782.1	1659.5	1676.8
10°	4917.0	4193.3	3357.6	2557.9	1836.7	1323.6	1057.0	958.4	903.7	905.1
12.5°	4869.1	3892.0	2713.8	1734.1	1118.3	845.0	762.4	738.4	722.4	723.8
15°	4845.1	3537.5	2078.0	1155.6	799.7	715.8	695.8	685.1	674.4	673.1
17.5°	4805.1	3143.0	1520.8	843.7	699.8	670.5	653.1	641.1	627.8	625.1
20°	4745.1	2695.1	1111.6	713.1	655.8	633.1	609.2	593.2	577.2	574.5
22.5°	4634.5	2222.0	854.4	659.8	623.8	598.5	569.2	550.5	534.5	531.9
25°	4429.2	1778.1	719.8	626.5	595.8	565.2	533.2	507.8	493.1	490.5
27.5°	4169.3	1396.9	653.1	595.8	559.9	531.9	495.8	471.8	458.5	455.8
30°	3862.7	1075.6	614.5	561.2	517.2	493.1	461.1	441.2	433.2	433.2
32.5°	3532.2	859.8	598.5	526.5	479.8	453.2	427.8	419.8	417.2	415.8
35°	3221.6	746.4	590.5	498.5	446.5	421.2	410.5	411.8	417.2	417.2
37.5°	2945.7	710.4	586.5	478.5	417.2	394.5	401.2	413.2	407.8	407.8
40°	2696.5	714.4	583.8	463.8	393.2	379.9	393.2	383.9	370.5	369.2
42.5°	2505.8	747.7	578.5	451.8	378.5	369.2	363.9	349.2	347.9	350.5
45°	2367.2	777.1	577.2	446.5	362.5	345.2	338.6	323.9	350.5	357.2
47.5°	2203.2	777.1	577.2	427.8	335.9	329.2	318.6	302.6	329.2	335.9
50°	1991.4	727.7	554.5	406.5	314.6	310.6	291.9	271.9	266.6	270.6
52.5°	1723.4	638.5	497.1	377.2	293.3	285.3	262.6	247.9	244.0	244.0
55°	1418.2	534.5	419.8	334.6	270.6	255.9	240.0	233.3	229.3	226.6
57.5°	1152.9	438.5	337.2	297.2	249.3	230.6	225.3	217.3	210.6	206.6
60°	946.4	345.2	278.6	263.9	228.0	210.6	209.3	198.6	181.3	178.7
62.5°	730.4	253.3	234.6	229.3	206.6	192.0	189.3	167.9	141.2	135.9
65°	515.9	197.3	189.3	201.3	184.0	170.7	163.9	131.9	103.9	99.9
67.5°	362.5	165.2	149.2	176.0	159.9	142.6	138.6	111.9	86.6	83.9
70°	258.6	134.6	122.6	150.6	127.9	125.3	117.3	93.3	70.6	68.0
72.5°	182.7	102.6	94.6	130.6	87.9	107.9	95.9	72.0	53.3	50.6
75°	134.6	73.3	66.6	76.0	64.0	81.3	68.0	48.0	33.3	32.0
77.5°	98.6	46.6	40.0	37.3	37.3	50.6	37.3	20.0	14.7	13.3
80°	69.3	21.3	18.7	16.0	14.7	12.0	5.3	2.7	1.3	1.3
82.5°	41.3	9.3	9.3	6.7	4.0	0.0	0.0	0.0	0.0	0.0
85°	9.3	4.0	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	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

(END OF REPORT)