

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: P966258

Luminaire Tested: **NVN-SB4B-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966258
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-SB4B-827-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 17150.3 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

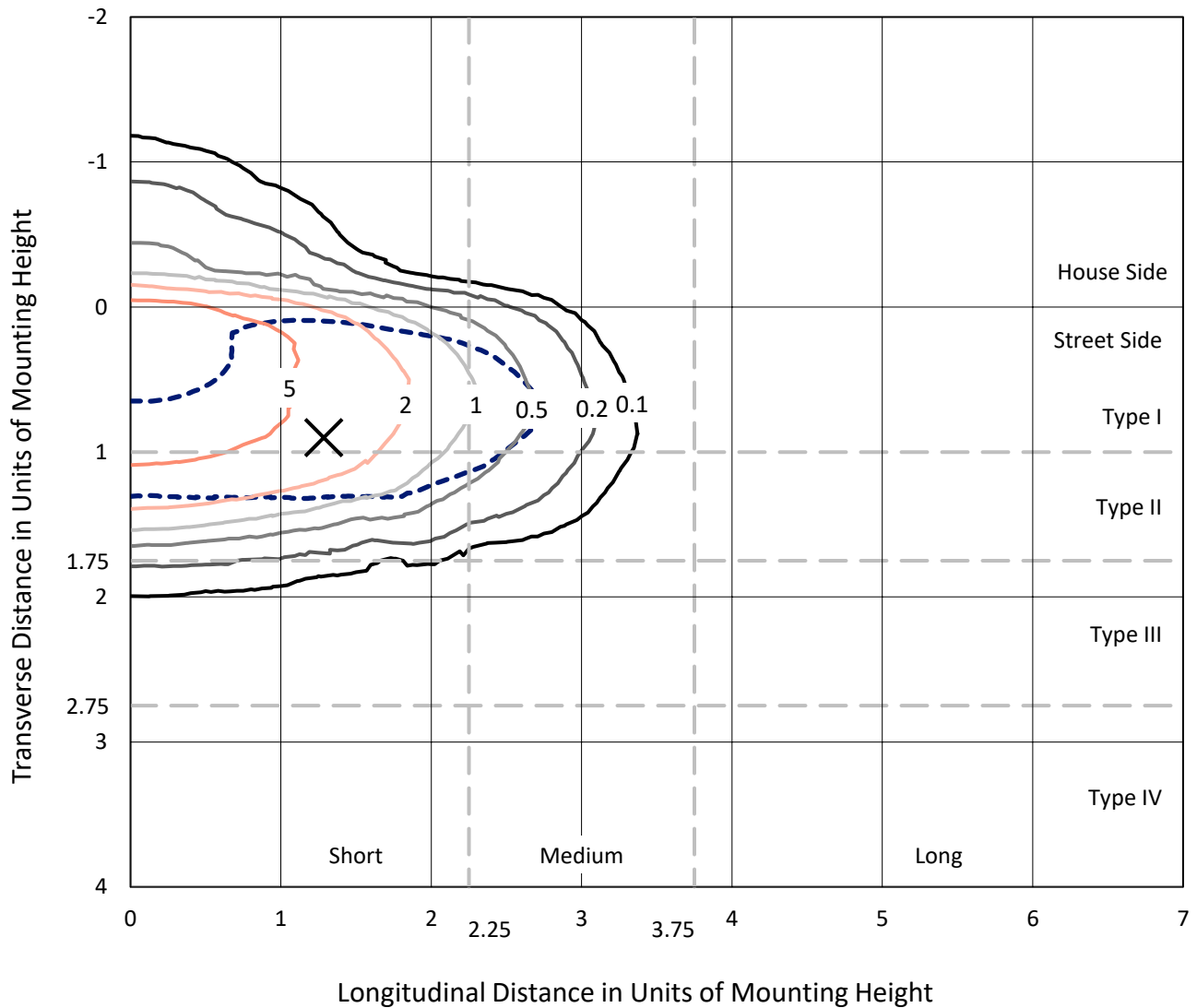
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

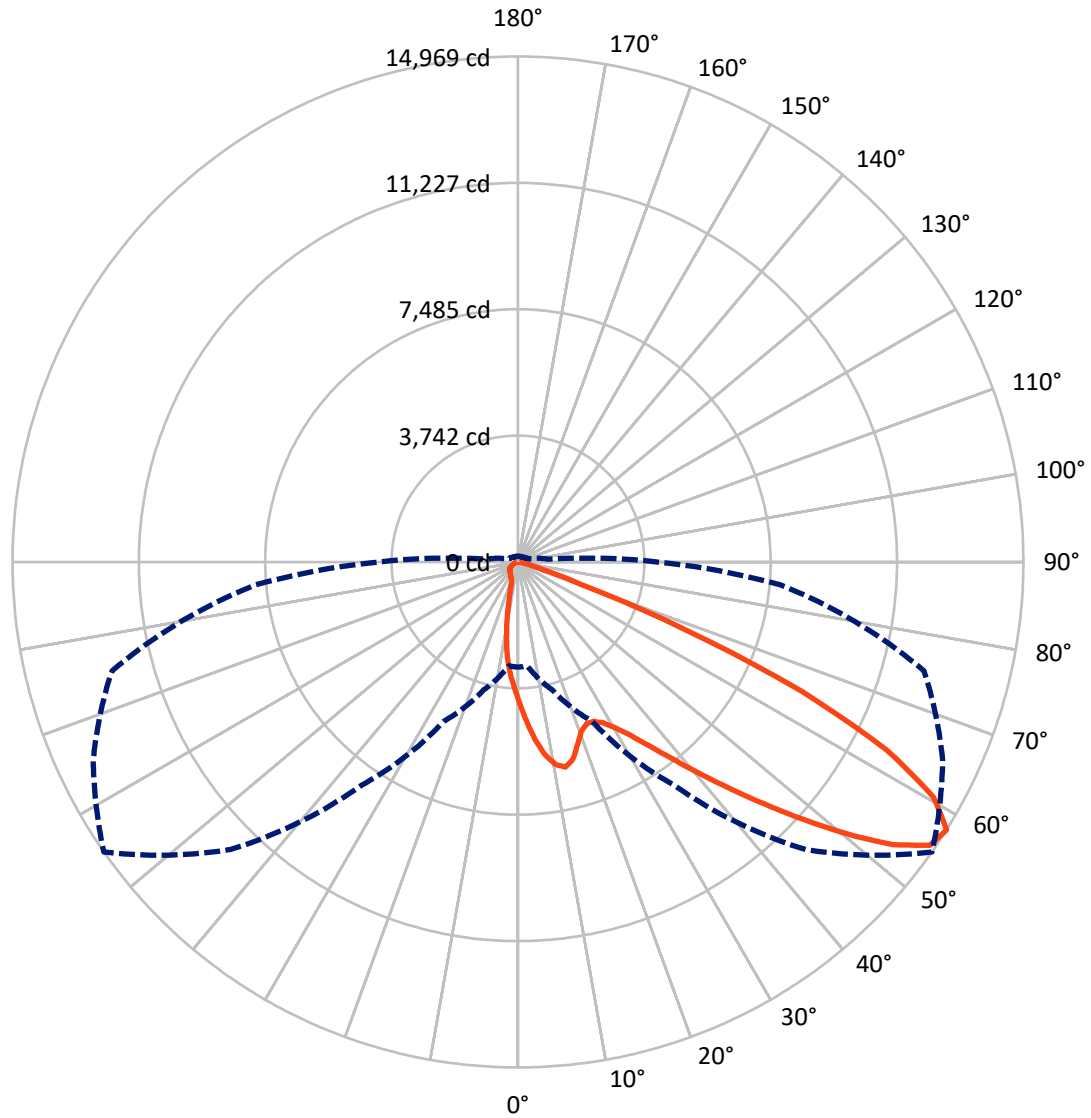
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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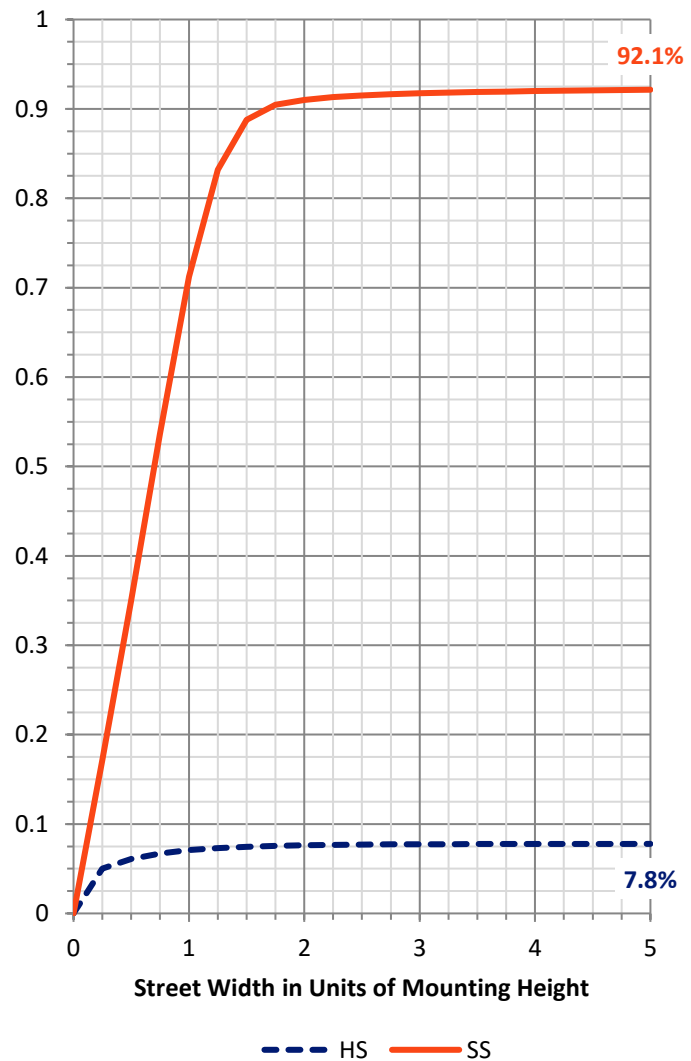
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1339.4	0.0	1339.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	15810.9	0.0	15810.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	17150.3	0.0	17150.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.5	2.2
10°-20°	928.8	5.4
20°-30°	1486.1	8.7
30°-40°	2515.4	14.7
40°-50°	4129.7	24.1
50°-60°	4538.9	26.5
60°-70°	2603.5	15.2
70°-80°	532.0	3.1
80°-90°	31.4	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°	17150.3	100.0
0°-180°	17150.3	100.0

Coefficient of Utilization



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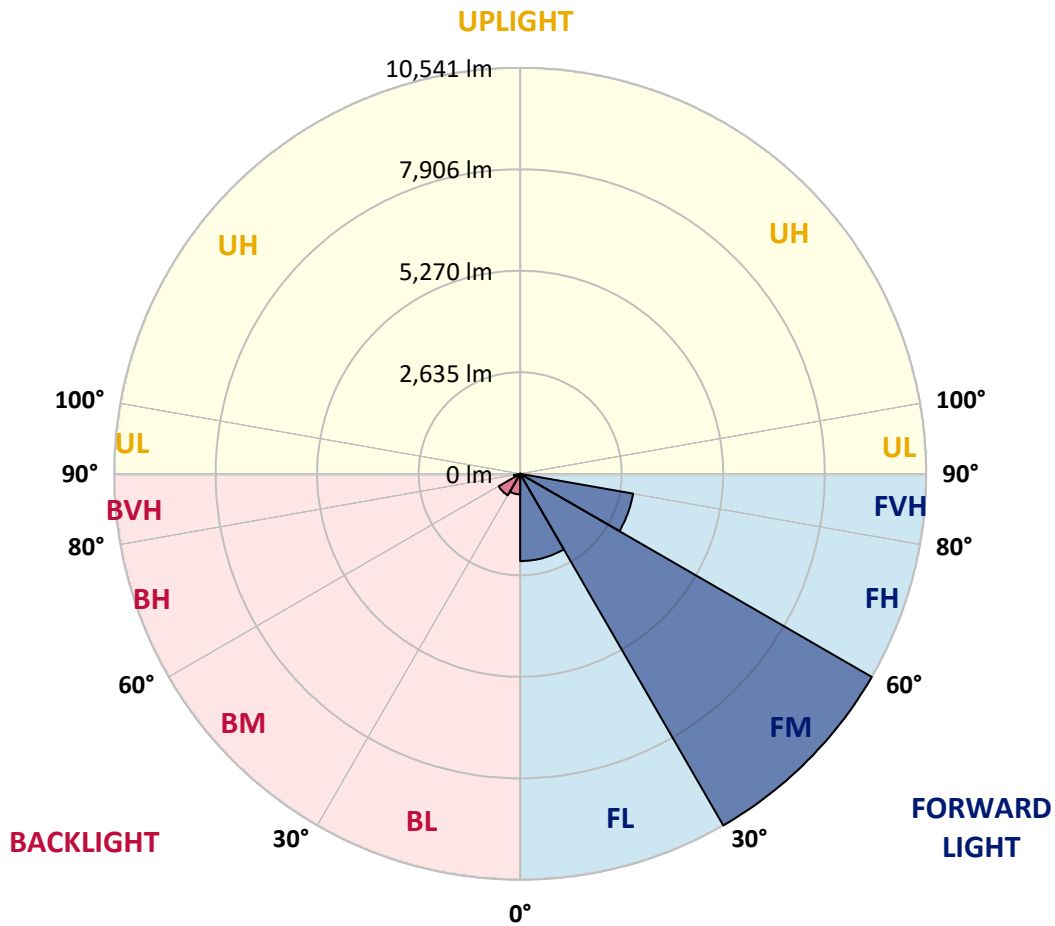
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2264.8	13.2			
FM (30°-60°)	10540.7	61.5			
FH (60°-80°)	2976.2	17.4			G2/5000
FVH (80°-90°)	29.3	0.2			G1/100
BL (0°-30°)	534.7	3.1	B2/1000		
BM (30°-60°)	643.2	3.8	B1/1000		
BH (60°-80°)	159.3	0.9	B1/500		G1/500
BVH (80°-90°)	2.1	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4132.8	4132.8	4132.8	4132.8	4132.8	4132.8	4132.8	4132.8	4132.8	4132.8	4132.8
2.5°	5128.0	5063.4	5053.9	5041.3	4918.6	4826.5	4693.3	4547.3	4383.4	4216.3	4142.3
5°	5924.2	5873.5	5863.9	5804.8	5665.2	5508.7	5271.8	4972.5	4666.8	4307.3	4152.9
7.5°	6078.7	6069.1	6112.5	6110.3	6091.4	5967.7	5767.8	5411.4	4952.4	4419.4	4180.4
10°	5390.2	5414.6	5543.5	5656.7	5962.3	6140.0	6096.6	5802.6	5246.4	4547.3	4211.0
12.5°	4763.1	4734.6	4826.5	4954.5	5309.8	5838.6	6233.0	6129.4	5582.7	4692.2	4256.5
15°	4369.7	4358.1	4409.9	4469.1	4739.8	5272.8	6074.5	6394.9	5906.3	4863.5	4325.3
17.5°	4243.8	4234.3	4250.2	4265.0	4440.5	4853.0	5696.8	6557.7	6216.1	5059.2	4401.5
20°	4346.4	4333.7	4331.6	4320.0	4392.9	4674.2	5355.3	6569.3	6494.3	5236.8	4467.0
22.5°	4645.7	4630.8	4579.1	4532.5	4538.9	4698.6	5203.0	6453.0	6703.6	5402.9	4508.3
25°	5188.2	5163.8	5056.0	4899.5	4800.1	4867.8	5226.3	6299.6	6903.5	5533.0	4488.2
27.5°	5867.1	5835.4	5696.8	5464.2	5236.8	5154.4	5394.5	6193.9	7069.5	5632.4	4444.8
30°	6532.3	6491.1	6354.7	6173.8	5841.8	5581.6	5698.0	6240.4	7267.2	5736.0	4387.6
32.5°	7250.3	7211.3	7030.4	6806.2	6531.3	6181.3	6113.5	6467.9	7509.5	5880.8	4347.4
35°	8158.8	8097.5	7840.4	7534.9	7243.0	6888.7	6676.1	6860.1	7832.0	6101.9	4369.7
37.5°	9193.0	9110.6	8833.4	8411.6	8030.9	7634.3	7361.4	7399.5	8304.8	6398.0	4438.5
40°	10168.1	10093.0	9837.0	9439.4	8961.5	8480.2	8189.4	8104.9	8957.3	6758.6	4559.0
42.5°	10752.9	10685.2	10577.4	10409.2	10006.3	9515.6	9148.6	8965.7	9729.2	7190.1	4706.0
45°	10785.7	10726.4	10871.4	11067.0	10987.7	10660.9	10213.5	9878.3	10504.4	7595.1	4858.3
47.5°	10261.2	10221.0	10660.9	11344.1	11684.6	11822.0	11409.6	10714.8	11144.2	7885.9	4920.6
50°	8831.4	8816.5	9721.8	10976.0	11950.0	12839.4	12671.3	11493.1	11640.1	8036.1	4861.5
52.5°	7657.6	7603.6	8131.3	9798.0	11564.0	13374.5	13904.3	12256.6	11987.1	8064.7	4722.9
55°	5808.0	5760.3	6422.3	7826.7	10319.3	13184.2	14806.3	13044.6	12235.5	7991.7	4474.3
57.5°	3115.5	3085.9	3922.4	5209.4	8066.7	12042.0	14969.2	13877.9	12444.9	7798.2	4126.4
60°	1213.0	1207.7	1520.7	2527.4	4902.7	9796.8	14147.6	14378.1	12576.0	7560.2	3835.7
62.5°	733.9	749.8	800.5	1134.7	2165.8	6086.0	12253.6	13809.1	12663.9	7342.4	3595.6
65°	607.0	608.0	614.4	779.4	1037.4	2546.5	9224.8	11937.4	12447.1	6954.3	3255.1
67.5°	520.3	529.8	554.1	618.7	731.8	1116.7	5310.8	9246.9	11128.3	6051.2	2724.1
70°	410.3	423.0	453.7	508.7	564.7	699.0	1962.8	6152.7	8501.5	4561.1	2060.0
72.5°	345.8	344.7	360.6	413.5	448.4	491.8	755.1	3447.5	4940.7	2177.4	1019.5
75°	267.5	278.1	298.2	345.8	367.0	356.4	409.3	1259.5	1770.3	659.9	346.9
77.5°	209.4	217.8	235.9	282.4	303.5	252.8	235.9	450.5	569.0	236.9	156.5
80°	94.1	101.5	160.7	208.4	247.4	174.5	127.9	230.5	252.8	107.8	79.3
82.5°	16.9	28.6	94.1	110.0	126.9	113.2	66.6	119.5	123.7	43.4	27.5
85°	1.0	2.2	32.8	40.2	50.7	37.0	20.1	47.6	41.2	14.8	10.6
87.5°	0.0	0.0	0.0	1.0	1.0	5.3	6.4	8.5	6.4	5.3	4.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4132.8	4132.8	4132.8	4132.8	4132.8	4132.8	4132.8	4132.8	4132.8	4132.8
2.5°	4066.2	3916.0	3770.1	3650.5	3580.7	3462.3	3384.0	3371.4	3338.6	3367.1
5°	3988.0	3719.3	3447.5	3204.3	3004.4	2746.4	2553.9	2472.5	2401.7	2426.0
7.5°	3950.9	3526.8	3103.8	2688.3	2260.9	1848.6	1541.9	1413.9	1316.6	1330.3
10°	3901.3	3326.9	2663.9	2029.4	1457.2	1050.1	838.7	760.3	717.0	718.0
12.5°	3863.1	3088.0	2153.1	1375.9	887.2	670.5	604.9	585.9	573.2	574.2
15°	3844.1	2806.7	1648.7	916.9	634.5	567.8	552.1	543.6	535.2	534.0
17.5°	3812.4	2493.6	1206.6	669.4	555.2	532.0	518.1	508.7	498.0	496.0
20°	3764.8	2138.4	882.0	565.8	520.3	502.4	483.3	470.6	457.9	455.8
22.5°	3677.0	1762.9	677.8	523.5	494.9	474.8	451.5	436.8	424.0	422.0
25°	3514.1	1410.7	571.0	497.0	472.7	448.4	423.0	402.9	391.2	389.2
27.5°	3308.0	1108.3	518.1	472.7	444.1	422.0	393.4	374.3	363.8	361.7
30°	3064.7	853.4	487.5	445.3	410.3	391.2	365.9	350.0	343.7	343.7
32.5°	2802.5	682.1	474.8	417.7	380.7	359.6	339.5	333.1	331.0	329.9
35°	2556.0	592.2	468.5	395.5	354.2	334.2	325.7	326.8	331.0	331.0
37.5°	2337.1	563.6	465.4	379.7	331.0	313.0	318.4	327.8	323.6	323.6
40°	2139.4	566.8	463.2	368.0	312.0	301.3	312.0	304.5	294.0	292.9
42.5°	1988.2	593.3	459.0	358.5	300.3	292.9	288.7	277.1	276.0	278.1
45°	1878.2	616.5	457.9	354.2	287.6	273.9	268.7	257.0	278.1	283.4
47.5°	1748.0	616.5	457.9	339.5	266.5	261.2	252.8	240.1	261.2	266.5
50°	1579.9	577.4	439.9	322.6	249.6	246.4	231.5	215.8	211.5	214.6
52.5°	1367.4	506.6	394.4	299.3	232.7	226.3	208.4	196.7	193.5	193.5
55°	1125.2	424.0	333.1	265.5	214.6	203.1	190.3	185.1	181.9	179.8
57.5°	914.7	347.9	267.5	235.9	197.7	183.0	178.8	172.4	167.1	163.9
60°	750.8	273.9	221.0	209.4	180.8	167.1	166.0	157.5	143.8	141.8
62.5°	579.5	200.9	186.1	181.9	163.9	152.3	150.2	133.2	112.1	107.8
65°	409.3	156.5	150.2	159.7	146.0	135.4	130.1	104.7	82.5	79.3
67.5°	287.6	131.1	118.5	139.6	126.9	113.2	110.0	88.9	68.8	66.6
70°	205.2	106.8	97.3	119.5	101.5	99.4	93.1	74.0	56.1	53.9
72.5°	144.8	81.4	75.1	103.6	69.8	85.7	76.2	57.1	42.3	40.2
75°	106.8	58.1	52.9	60.3	50.7	64.5	53.9	38.0	26.4	25.4
77.5°	78.2	37.0	31.8	29.6	29.6	40.2	29.6	15.9	11.6	10.6
80°	54.9	16.9	14.8	12.7	11.6	9.5	4.2	2.2	1.0	1.0
82.5°	32.8	7.4	7.4	5.3	3.2	0.0	0.0	0.0	0.0	0.0
85°	7.4	3.2	3.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	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

(END OF REPORT)