

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: P966842

Luminaire Tested: **NVN-SB4C-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4C-830-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21293.3 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

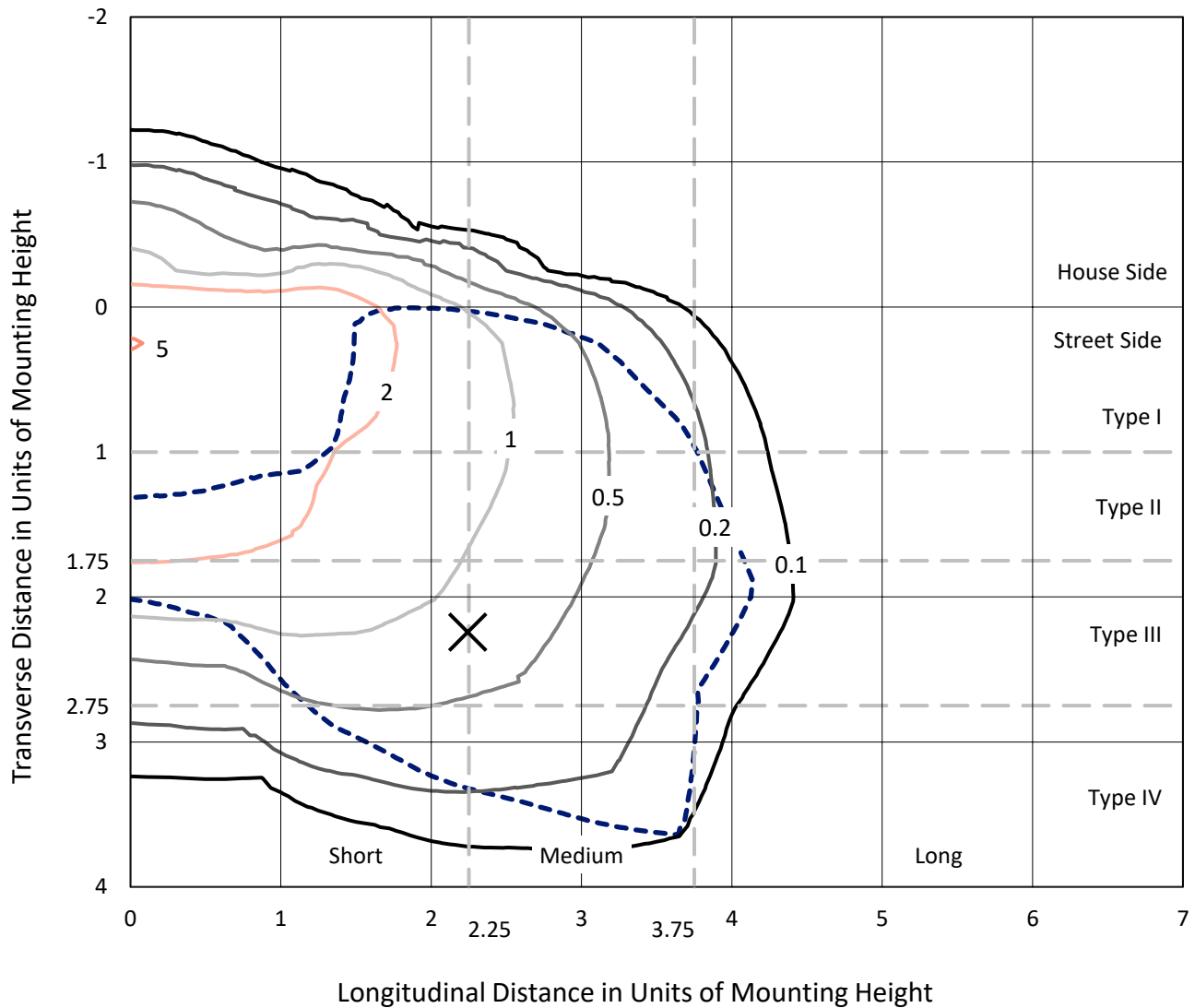
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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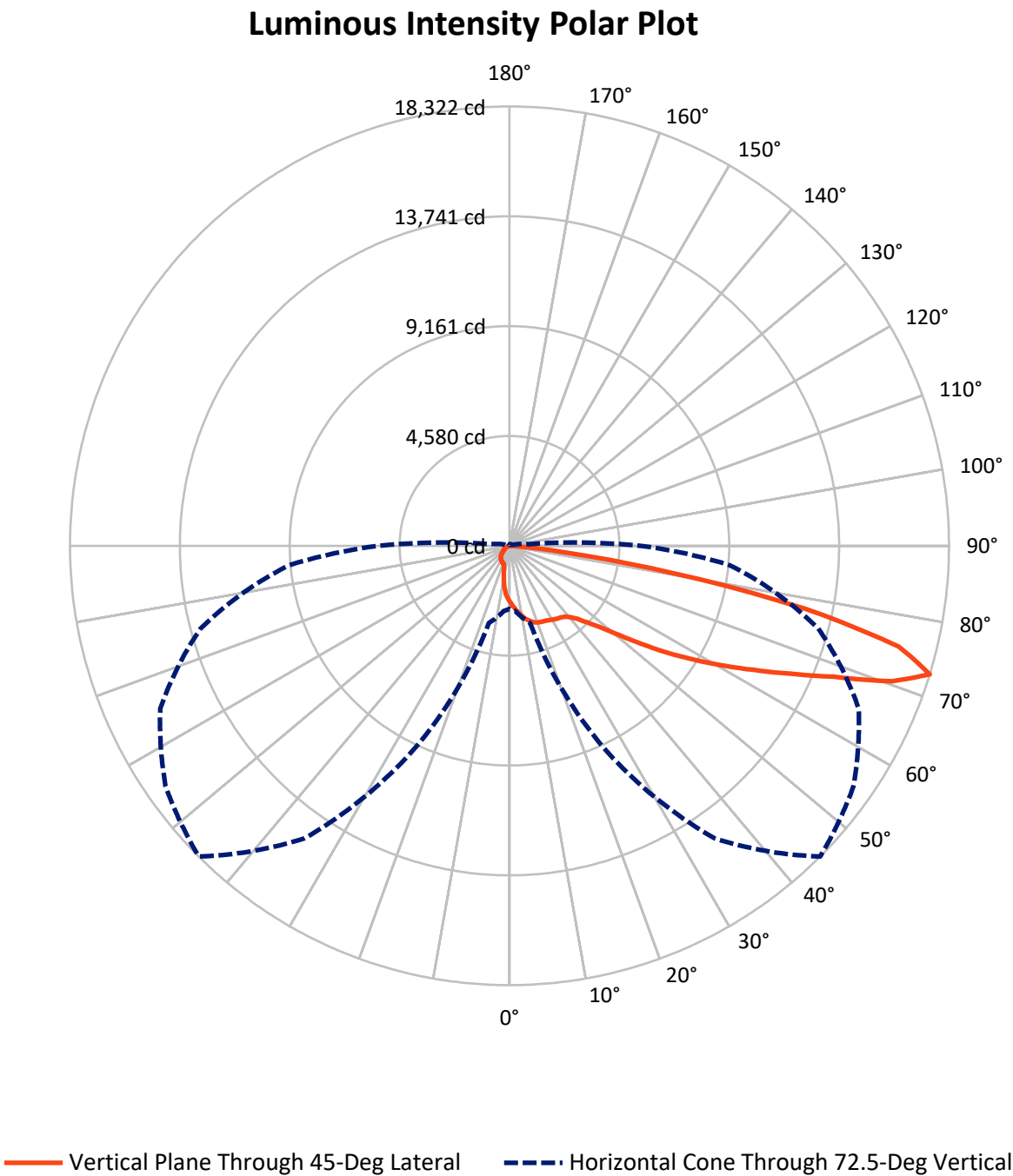
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2237.3	0.0	2237.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	19056.0	0.0	19056.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	21293.3	0.0	21293.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	1.0
10°-20°	642.4	3.0
20°-30°	1054.9	5.0
30°-40°	1496.0	7.0
40°-50°	2472.8	11.6
50°-60°	4442.0	20.9
60°-70°	6168.0	29.0
70°-80°	4474.1	21.0
80°-90°	323.5	1.5
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°	21293.3	100.0
0°-180°	21293.3	100.0

Coefficient of Utilization



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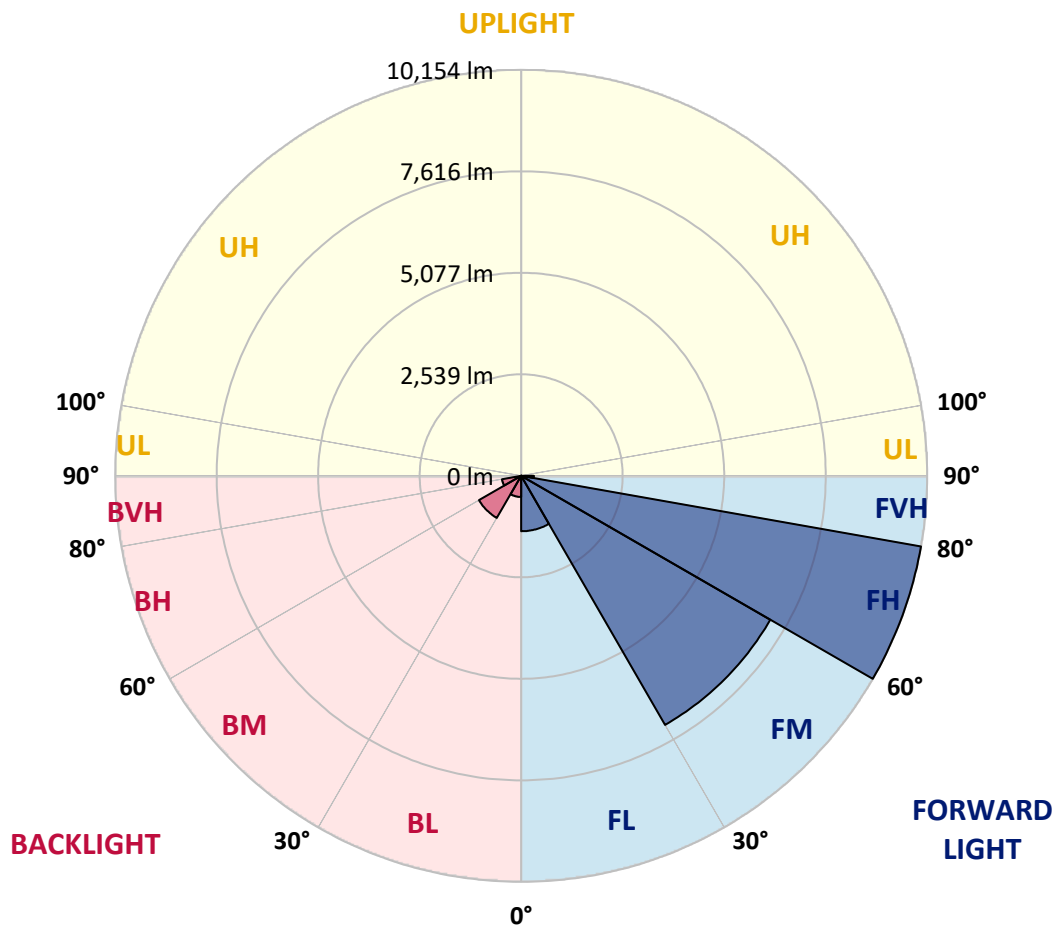
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1387.1	6.5			
FM	(30°-60°)	7194.0	33.8			
FH	(60°-80°)	10154.2	47.7			G4/12000
FVH	(80°-90°)	320.7	1.5			G3/500
BL	(0°-30°)	529.9	2.5	B2/1000		
BM	(30°-60°)	1216.8	5.7	B2/2500		
BH	(60°-80°)	487.9	2.3	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7
2.5°	2547.8	2552.1	2549.3	2531.9	2502.7	2486.8	2478.0	2449.0	2430.1	2396.7	2361.8
5°	2781.8	2799.3	2789.1	2754.2	2699.0	2659.8	2648.1	2588.5	2534.7	2472.3	2399.6
7.5°	3030.4	3039.1	3020.2	2975.2	2901.1	2834.1	2824.0	2741.2	2655.4	2559.4	2460.6
10°	3245.5	3255.6	3226.6	3161.2	3076.8	2994.0	2979.5	2887.9	2786.2	2668.5	2542.0
12.5°	3425.7	3435.9	3398.1	3319.6	3226.6	3140.8	3126.2	3030.4	2918.5	2787.7	2630.7
15°	3562.3	3581.2	3530.3	3446.0	3345.8	3260.0	3252.7	3158.2	3049.3	2903.9	2736.7
17.5°	3642.2	3661.2	3613.2	3511.4	3425.7	3353.0	3344.3	3265.9	3164.1	3024.6	2840.0
20°	3655.4	3672.8	3621.9	3533.3	3462.0	3403.9	3399.5	3342.8	3268.7	3135.1	2951.9
22.5°	3616.1	3637.9	3591.4	3520.2	3470.8	3440.2	3434.5	3402.5	3360.3	3246.9	3056.5
25°	3575.4	3592.8	3558.0	3495.5	3469.3	3466.3	3470.8	3464.9	3456.2	3360.3	3178.6
27.5°	3572.5	3591.4	3552.1	3492.6	3478.0	3508.6	3512.9	3540.6	3547.8	3463.5	3296.3
30°	3597.2	3610.3	3572.5	3510.0	3502.7	3572.5	3574.0	3623.4	3635.0	3550.7	3412.6
32.5°	3650.9	3665.5	3627.7	3536.1	3526.0	3623.4	3627.7	3693.2	3712.0	3643.7	3534.7
35°	3777.4	3794.9	3751.3	3608.8	3572.5	3671.3	3684.4	3761.4	3799.3	3742.6	3661.2
37.5°	4092.8	4042.0	3982.3	3755.6	3678.6	3746.9	3768.7	3858.8	3925.6	3860.3	3812.3
40°	4876.2	4716.3	4530.3	4005.6	3864.7	3908.2	3925.6	4015.7	4107.4	4043.4	4020.2
42.5°	6052.0	5863.1	5563.7	4581.1	4145.1	4166.9	4180.1	4258.5	4387.8	4337.0	4342.8
45°	7100.0	7031.6	6726.4	5563.7	4669.8	4562.3	4578.3	4619.0	4809.4	4790.4	4828.3
47.5°	7905.1	7865.8	7630.4	6691.5	5556.4	5046.3	5091.3	5110.2	5384.9	5451.8	5553.4
50°	8524.3	8509.8	8299.0	7694.4	6714.8	5759.9	5775.9	5735.2	6146.5	6312.2	6505.5
52.5°	9108.6	9158.0	9002.5	8626.0	7951.6	6694.5	6691.5	6499.6	7054.9	7304.9	7634.8
55°	9636.1	9653.6	9669.5	9576.6	9195.8	7758.3	7730.8	7416.8	8108.6	8367.3	8724.9
57.5°	10131.7	10139.0	10281.5	10471.8	10490.8	8900.7	8849.8	8473.4	9259.7	9444.2	9663.8
60°	10464.6	10498.0	10798.9	11327.9	11559.0	10079.4	10051.9	9668.1	10431.1	10516.9	10476.2
62.5°	9984.9	10188.4	10947.1	11996.5	12567.7	11386.0	11373.0	11012.5	11663.7	11593.9	11245.1
65°	8082.4	8426.9	9761.2	12448.5	13557.5	12845.3	12864.2	12480.5	12929.6	12702.8	11870.0
67.5°	5653.8	6017.2	7595.6	12484.8	14663.5	14558.9	14667.9	14066.2	14273.9	13765.3	12018.3
70°	3909.7	4097.1	5124.7	11702.9	15525.4	16919.2	16916.3	16013.8	15611.2	14249.2	11262.5
72.5°	2629.2	2726.6	3328.3	9284.4	14891.7	18321.8	18237.4	17502.1	16061.6	13326.3	9201.5
75°	1108.9	1180.2	1540.6	5217.8	11781.3	16762.2	16534.1	15467.2	14271.1	10493.6	5741.0
77.5°	351.7	382.2	607.5	1867.7	6489.5	12599.6	12358.4	9659.4	9564.9	5264.3	2098.7
80°	167.2	194.7	341.5	750.0	2553.7	6852.8	6819.4	4382.1	4114.7	1421.5	421.5
82.5°	72.7	85.8	188.9	401.2	1142.4	2444.6	2494.0	1491.2	1234.0	539.3	129.4
85°	23.3	30.5	87.2	184.6	482.6	607.5	600.2	354.6	497.0	293.6	45.1
87.5°	0.0	0.0	29.1	42.1	49.4	34.8	39.3	30.5	138.1	81.4	16.0
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°	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7
2.5°	2344.4	2321.1	2280.4	2242.6	2209.2	2175.8	2155.4	2126.4	2123.4	2123.4	2130.7
5°	2360.4	2322.5	2249.9	2172.9	2084.2	1999.9	1915.6	1834.2	1808.1	1789.1	1797.8
7.5°	2406.9	2347.2	2232.4	2085.7	1917.1	1732.5	1603.1	1463.6	1409.8	1380.8	1385.1
10°	2473.7	2392.4	2217.9	1960.6	1687.5	1436.0	1251.4	1100.2	1042.1	1017.4	1017.4
12.5°	2547.8	2447.6	2191.8	1805.1	1436.0	1135.1	954.9	885.1	876.4	876.4	876.4
15°	2636.5	2514.4	2146.7	1622.1	1172.9	898.2	834.2	837.1	845.9	851.7	851.7
17.5°	2728.0	2585.7	2075.5	1417.1	940.3	808.1	809.5	814.0	821.2	827.0	827.0
20°	2826.8	2656.8	1981.0	1199.0	806.7	782.0	786.3	790.7	796.4	799.4	800.8
22.5°	2933.0	2723.7	1869.1	985.4	761.6	760.1	761.6	766.0	773.3	773.3	776.1
25°	3046.4	2797.8	1741.2	829.9	738.3	738.3	741.3	744.2	750.0	750.0	751.4
27.5°	3162.6	2866.1	1606.1	748.6	718.0	716.6	716.6	720.9	723.8	725.3	726.7
30°	3290.6	2946.1	1470.9	731.0	702.0	694.7	690.3	693.3	696.2	697.6	700.6
32.5°	3421.3	3023.1	1350.2	738.3	686.0	672.9	658.4	655.5	655.5	661.3	665.6
35°	3566.7	3107.4	1257.2	763.0	677.3	640.9	617.7	604.6	606.1	614.8	619.2
37.5°	3741.0	3209.2	1188.9	784.8	671.5	604.6	566.8	550.8	540.7	550.8	548.0
40°	3969.3	3358.8	1139.5	802.3	664.2	562.5	511.6	485.4	466.6	472.3	469.4
42.5°	4305.0	3594.3	1120.6	803.7	648.2	513.0	454.9	420.0	392.5	393.9	388.1
45°	4775.9	3966.3	1218.0	784.8	613.4	459.3	395.3	348.8	331.4	327.0	321.2
47.5°	5421.2	4508.5	1443.2	745.6	562.5	406.9	337.2	298.0	284.8	277.6	273.3
50°	6286.0	5204.6	1693.2	702.0	511.6	357.5	289.3	264.6	255.8	248.6	247.1
52.5°	7288.9	5911.1	1898.2	658.4	460.7	314.0	258.7	244.2	236.9	231.1	229.6
55°	8208.9	6397.9	1886.5	611.9	411.3	279.0	236.9	228.2	219.5	213.6	210.7
57.5°	8781.6	6466.2	1555.1	561.0	354.6	251.4	216.6	210.7	200.6	193.3	191.9
60°	9044.6	6076.7	1090.1	494.2	298.0	225.3	194.7	191.9	178.8	168.6	165.6
62.5°	9092.6	5353.0	726.7	411.3	248.6	200.6	172.9	168.6	151.2	133.8	124.9
65°	8897.8	4318.1	502.9	321.2	212.2	174.5	148.2	139.5	120.6	103.2	97.4
67.5°	8281.6	3031.8	350.2	231.1	180.2	138.1	117.8	114.8	100.2	85.8	81.4
70°	7152.2	1728.2	234.0	172.9	142.5	94.5	93.0	95.9	81.4	69.8	64.0
72.5°	5483.7	790.7	145.3	126.5	97.4	64.0	74.1	75.5	62.5	52.3	46.5
75°	3228.0	338.7	91.5	81.4	49.4	42.1	53.8	55.2	42.1	33.4	29.1
77.5°	1098.8	127.9	58.1	48.0	24.7	23.3	34.8	34.8	23.3	13.1	10.1
80°	250.0	48.0	29.1	18.9	11.6	10.1	11.6	10.1	5.8	1.4	0.0
82.5°	71.2	18.9	11.6	7.3	4.4	4.4	1.4	0.0	0.0	0.0	0.0
85°	20.4	8.7	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	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)