

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: P970497

Luminaire Tested: **NVN-SB6B-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6B-827-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30455.8 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 220.4
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

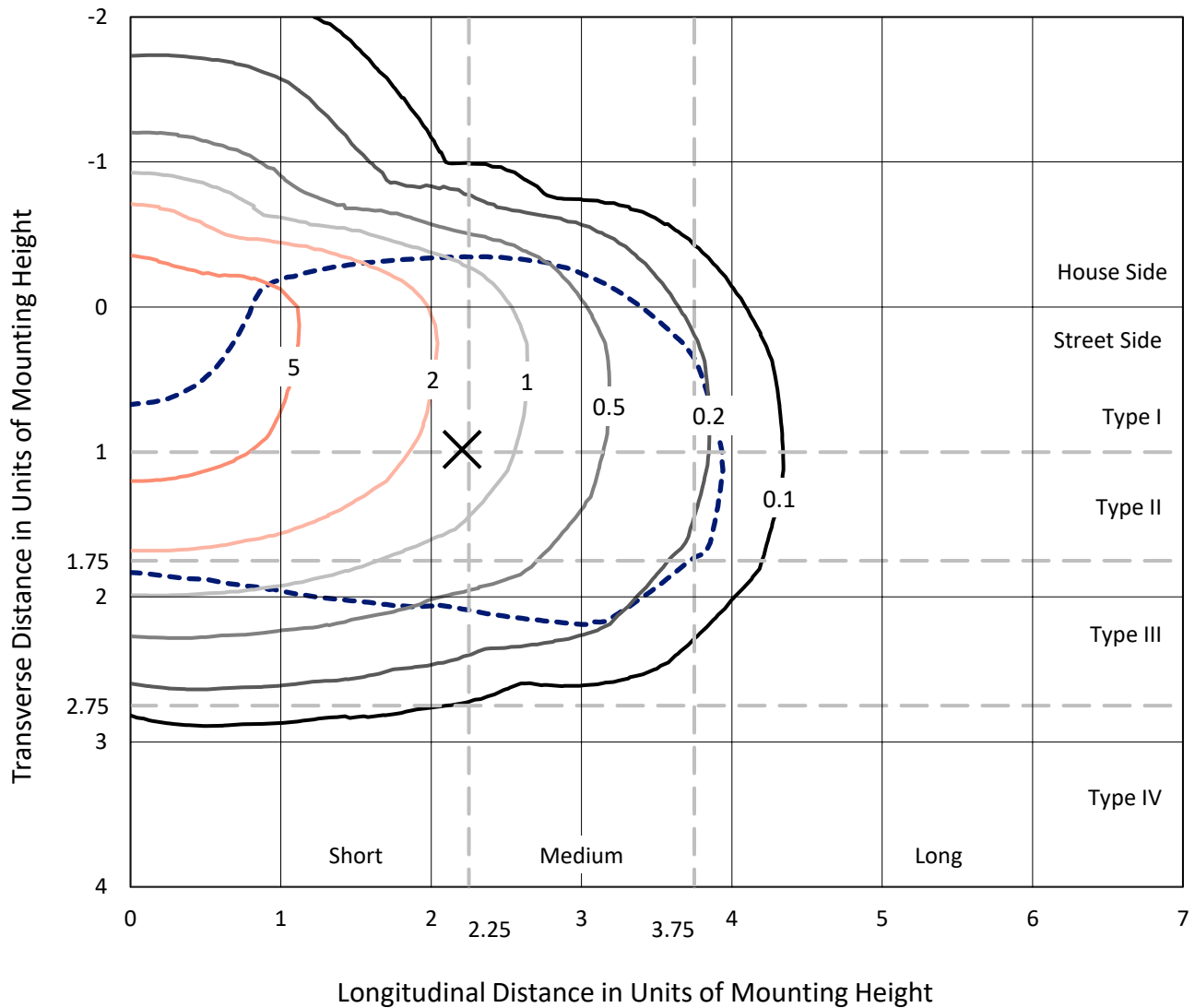


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Iso-Footcandle Lines of Horizontal Illumination

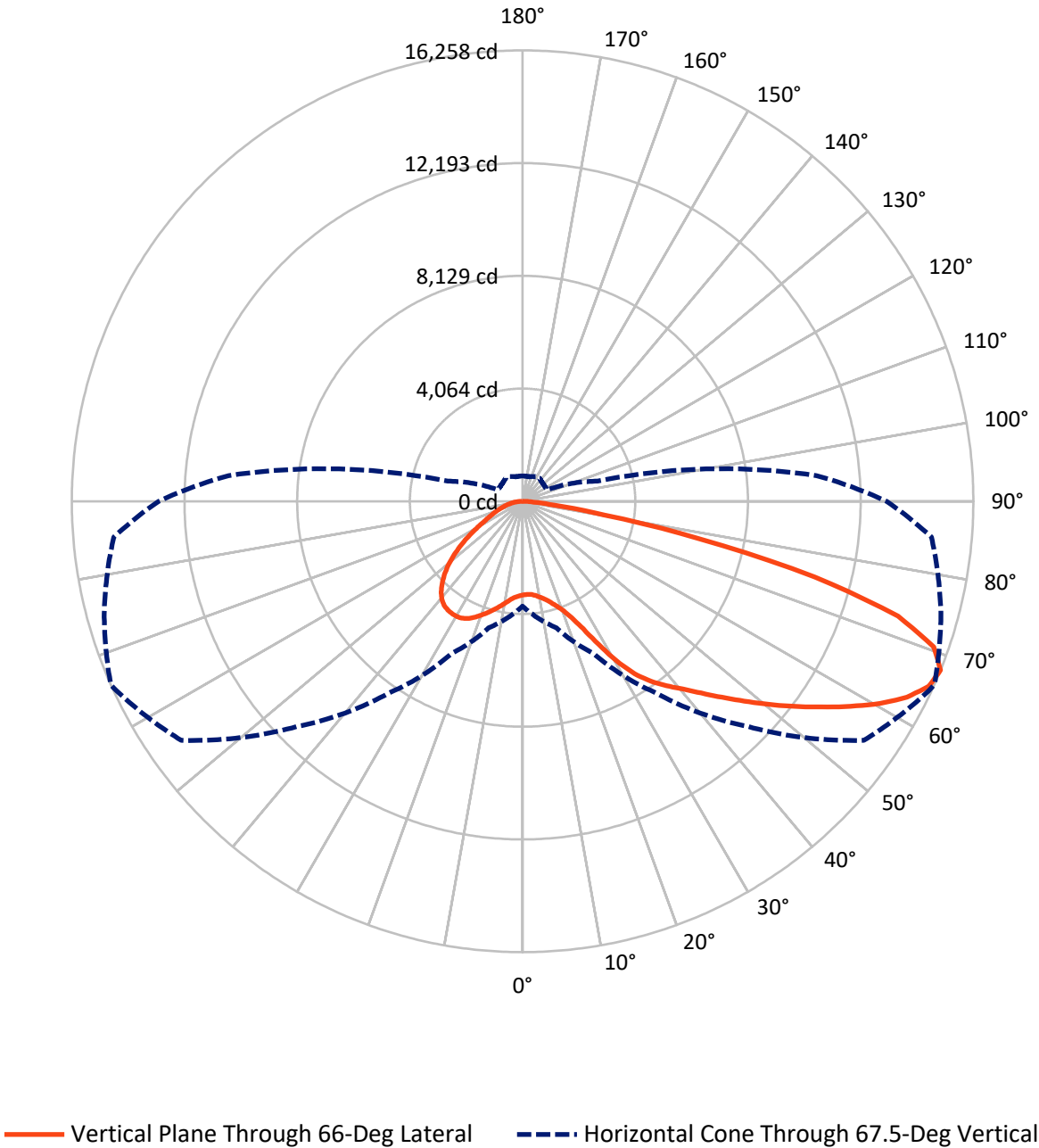
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7572.8	0.0	7572.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	22883.1	0.0	22883.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	30455.8	0.0	30455.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.9	1.1
10°-20°	1106.5	3.6
20°-30°	2132.7	7.0
30°-40°	3739.4	12.3
40°-50°	5559.3	18.3
50°-60°	7047.0	23.1
60°-70°	6895.3	22.6
70°-80°	3289.1	10.8
80°-90°	351.5	1.2
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°	30455.8	100.0
0°-180°	30455.8	100.0

Coefficient of Utilization



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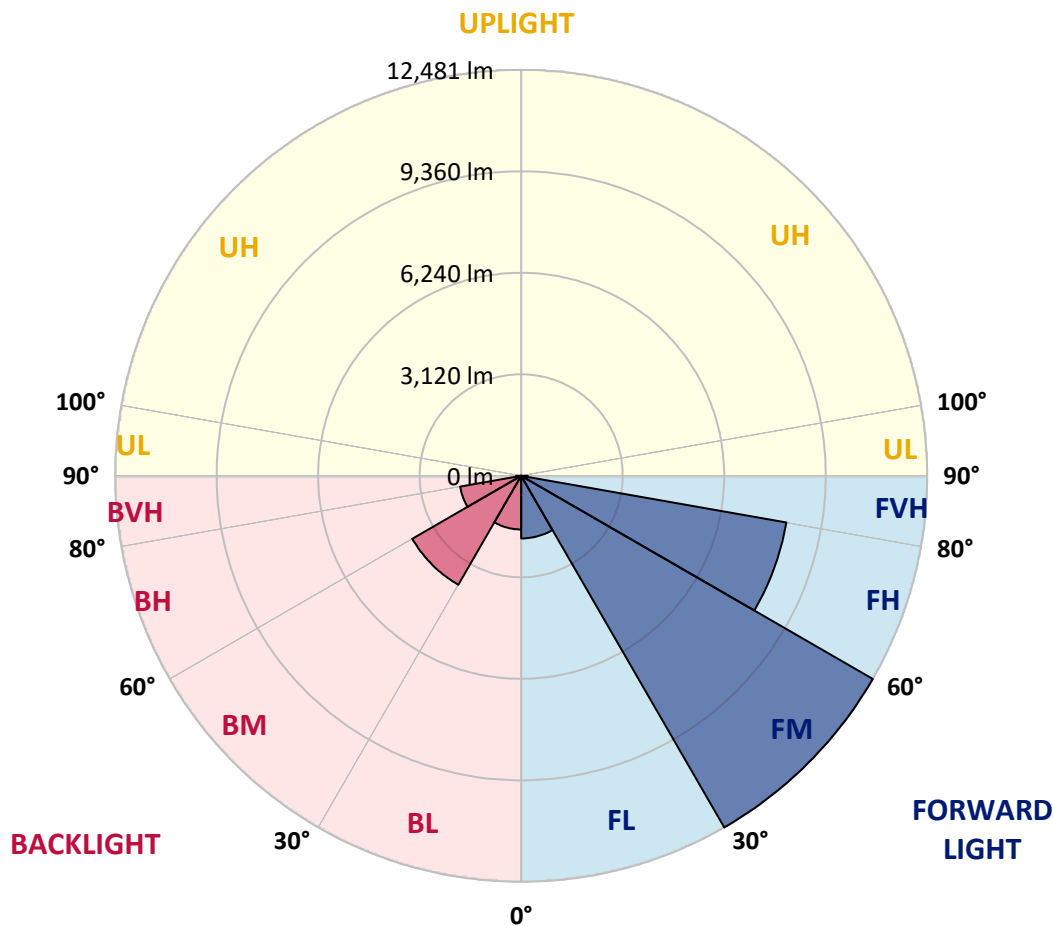
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1924.5	6.3			
FM	(30°-60°)	12480.5	41.0			
FH	(60°-80°)	8278.7	27.2			G4/12000
FVH	(80°-90°)	199.3	0.7			G2/225
BL	(0°-30°)	1649.6	5.4	B3/2500		
BM	(30°-60°)	3865.2	12.7	B3/5000		
BH	(60°-80°)	1905.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	152.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3378.0	3378.0	3378.0	3378.0	3378.0	3378.0	3378.0	3378.0	3378.0	3378.0	3378.0
2.5°	3342.7	3362.0	3357.2	3349.2	3347.5	3350.7	3355.5	3360.4	3358.7	3366.7	3379.5
5°	3333.2	3352.4	3350.7	3350.7	3357.2	3370.0	3378.0	3386.0	3378.0	3387.5	3405.2
7.5°	3339.6	3353.9	3360.4	3366.7	3382.7	3406.8	3426.0	3443.6	3434.0	3445.1	3467.6
10°	3421.1	3432.3	3438.8	3438.8	3449.9	3477.2	3496.4	3528.4	3520.4	3538.0	3566.8
12.5°	3570.0	3581.1	3581.1	3574.8	3582.8	3600.4	3606.8	3642.0	3627.6	3656.4	3685.2
15°	3752.4	3774.8	3757.2	3746.0	3749.1	3766.8	3765.2	3792.4	3777.9	3802.0	3827.6
17.5°	3954.0	3982.8	3954.0	3952.4	3946.0	3965.2	3966.9	3990.8	3965.2	3982.8	4000.4
20°	4192.5	4232.4	4208.4	4216.4	4202.1	4210.1	4218.1	4253.2	4213.3	4226.1	4221.3
22.5°	4528.4	4576.5	4550.9	4581.2	4571.7	4565.2	4563.7	4626.1	4563.7	4568.5	4522.1
25°	5018.1	5075.7	5030.9	5072.5	5072.5	5093.3	5117.3	5197.4	5093.3	5062.9	4943.0
27.5°	5741.4	5799.0	5711.0	5736.6	5728.6	5779.8	5754.2	5952.6	5840.7	5791.0	5549.3
30°	6611.9	6714.3	6547.9	6541.4	6533.5	6615.0	6651.9	6783.1	6669.5	6619.9	6328.7
32.5°	7552.8	7660.0	7461.6	7404.0	7373.5	7423.2	7392.8	7498.4	7420.0	7343.2	6983.1
35°	8548.1	8653.7	8464.9	8352.8	8231.3	8127.2	8018.5	8045.6	7972.0	7855.2	7482.4
37.5°	9489.0	9682.7	9482.6	9362.6	9138.6	8935.3	8631.3	8504.9	8436.1	8328.8	7952.9
40°	10447.5	10557.9	10405.9	10303.5	10060.3	9741.8	9255.3	8988.1	8895.4	8791.3	8472.9
42.5°	11153.1	11258.8	11177.2	11106.8	10916.4	10546.7	9917.8	9583.4	9449.0	9332.2	9061.7
45°	11713.2	11791.6	11740.5	11766.1	11684.4	11325.9	10604.3	10221.9	10082.6	9940.2	9727.5
47.5°	11938.9	12022.0	12103.7	12255.7	12394.9	12130.9	11342.0	10913.2	10765.9	10620.3	10410.7
50°	11913.3	11998.0	12234.9	12558.1	12990.1	12902.2	12119.7	11649.2	11513.2	11346.7	11153.1
52.5°	11708.5	11804.4	12108.4	12646.1	13334.2	13479.8	12911.7	12409.3	12281.2	12082.9	11889.3
55°	11170.8	11228.4	11684.4	12446.1	13415.8	13883.0	13687.8	13219.0	13091.0	12814.1	12602.9
57.5°	10173.8	10257.1	10921.2	11906.8	13211.0	14156.7	14369.5	14070.3	13947.1	13548.7	13327.8
60°	8872.9	9005.8	9765.8	11001.1	12689.3	14155.0	14988.8	14907.2	14804.8	14271.9	14041.5
62.5°	7400.8	7554.4	8285.7	9721.0	11777.2	13753.4	15376.0	15608.0	15555.2	14939.2	14644.7
65°	5683.8	5789.4	6517.5	8064.8	10357.9	12890.9	15420.8	16086.5	16096.1	15446.4	14960.0
67.5°	3784.4	4088.4	4720.5	6051.8	8456.9	11481.2	15027.2	16164.9	16257.7	15620.8	14801.5
70°	1846.6	2246.6	2865.9	3933.2	6051.8	9319.4	13998.2	15521.6	15728.0	15112.0	13857.5
72.5°	766.5	896.1	1233.7	1941.0	3473.9	6288.7	11930.9	13777.4	14159.9	13390.2	11650.9
75°	516.8	560.1	705.7	995.3	1582.6	3101.1	8604.1	10273.1	10889.2	10113.1	8266.4
77.5°	398.4	425.7	513.6	696.1	940.8	1172.9	4605.3	6191.0	6509.5	6026.2	4301.2
80°	313.6	334.5	384.1	507.3	667.3	627.3	1569.8	2805.1	2989.1	2507.5	1382.5
82.5°	272.0	280.0	275.2	344.0	443.2	366.4	515.3	1035.4	1142.6	828.9	451.2
85°	196.8	219.2	228.8	212.8	235.2	185.6	211.3	366.4	403.2	360.1	254.4
87.5°	80.1	118.4	145.7	137.7	86.4	52.8	65.6	107.2	123.2	134.4	83.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3378.0	3378.0	3378.0	3378.0	3378.0	3378.0	3378.0	3378.0	3378.0	3378.0	3378.0
2.5°	3381.2	3392.3	3400.3	3410.0	3416.3	3426.0	3445.1	3456.4	3457.9	3465.9	3464.4
5°	3411.5	3427.6	3445.1	3470.8	3499.6	3523.5	3560.3	3586.0	3595.6	3603.6	3602.0
7.5°	3477.2	3499.6	3531.5	3576.3	3617.9	3650.0	3694.8	3725.2	3755.6	3766.8	3768.4
10°	3574.8	3606.8	3653.2	3714.0	3758.8	3800.4	3846.8	3872.4	3902.8	3915.6	3922.1
12.5°	3696.4	3730.0	3790.8	3875.6	3917.2	3946.0	3962.0	3955.6	3962.0	3973.2	3976.4
15°	3835.7	3872.4	3941.2	4032.5	4061.3	4035.6	4000.4	3968.4	3963.6	3966.9	3978.0
17.5°	4000.4	4027.6	4107.6	4184.5	4163.7	4058.0	3981.2	3930.1	3904.4	3896.4	3907.6
20°	4230.9	4230.9	4296.5	4344.5	4205.3	4026.0	3906.0	3822.8	3770.0	3747.6	3742.8
22.5°	4510.9	4485.3	4526.9	4493.3	4197.3	3936.4	3770.0	3625.9	3546.0	3514.0	3509.2
25°	4866.1	4835.7	4824.5	4616.5	4139.7	3794.0	3523.5	3349.2	3278.8	3261.1	3264.3
27.5°	5402.2	5325.4	5179.7	4683.7	4034.0	3570.0	3235.5	3073.9	3033.9	3035.5	3040.4
30°	6115.9	5962.2	5605.4	4694.9	3861.2	3253.1	2941.1	2825.9	2806.7	2814.6	2841.9
32.5°	6776.7	6631.1	6040.6	4643.7	3595.6	2942.7	2677.1	2600.3	2571.5	2581.1	2593.9
35°	7295.1	7255.2	6443.9	4571.7	3269.1	2651.5	2440.2	2374.6	2318.7	2305.8	2315.5
37.5°	7784.8	7768.8	6746.3	4470.8	2946.0	2445.0	2249.9	2163.5	2081.8	2037.0	2038.6
40°	8322.5	8306.5	6944.7	4315.7	2659.5	2265.9	2078.6	1965.0	1864.2	1782.6	1790.6
42.5°	8927.3	8832.9	7039.2	4093.2	2416.2	2113.9	1939.4	1785.8	1653.0	1577.8	1582.6
45°	9588.2	9375.4	7037.5	3810.0	2211.4	1974.6	1790.6	1573.0	1449.8	1379.3	1376.2
47.5°	10289.1	9893.8	6951.1	3496.4	2013.0	1821.0	1560.2	1393.8	1312.1	1268.9	1259.3
50°	11012.4	10378.6	6804.0	3136.3	1809.7	1646.6	1416.1	1302.6	1240.1	1200.2	1185.7
52.5°	11692.4	10818.8	6626.3	2728.2	1603.4	1476.9	1352.2	1264.1	1198.5	1153.7	1134.5
55°	12324.5	11198.0	6375.1	2310.7	1435.3	1363.4	1321.7	1248.1	1172.9	1120.1	1099.3
57.5°	12886.2	11444.4	5941.4	1918.6	1315.4	1284.9	1289.8	1220.9	1134.5	1089.7	1060.9
60°	13353.4	11625.2	5299.8	1555.3	1217.7	1208.2	1240.1	1169.7	1068.9	1017.7	995.3
62.5°	13633.4	11622.1	4512.5	1273.8	1134.5	1137.8	1174.5	1105.7	1003.3	955.3	940.8
65°	13609.4	11337.2	3648.4	1089.7	1054.5	1057.7	1105.7	1035.4	948.9	920.1	918.5
67.5°	13127.8	10642.7	2798.7	969.8	966.5	980.9	1036.9	987.3	915.3	912.0	916.9
70°	11823.7	9200.9	2016.2	873.7	875.2	896.1	969.8	956.9	897.7	904.0	902.5
72.5°	9480.9	7015.1	1353.7	772.8	774.5	808.1	905.7	932.9	880.1	964.9	977.7
75°	6314.3	4374.9	870.5	665.6	667.3	710.4	849.7	886.5	832.1	961.7	969.8
77.5°	3033.9	1966.6	630.5	560.1	560.1	600.0	734.5	793.7	708.9	747.3	684.9
80°	1048.1	739.2	496.1	451.2	441.7	468.8	619.3	688.1	611.3	563.2	528.1
82.5°	412.9	384.1	398.4	350.4	318.5	336.0	481.6	568.1	449.7	406.4	404.9
85°	236.8	249.6	281.7	232.1	184.0	206.4	353.6	408.1	339.3	299.2	305.7
87.5°	64.0	88.0	129.7	120.0	83.2	88.0	168.0	225.6	195.3	150.4	155.2
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)