

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: P970531

Luminaire Tested: **NVN-SB6B-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970531
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-SB6B-830-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA 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: 24225.9 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

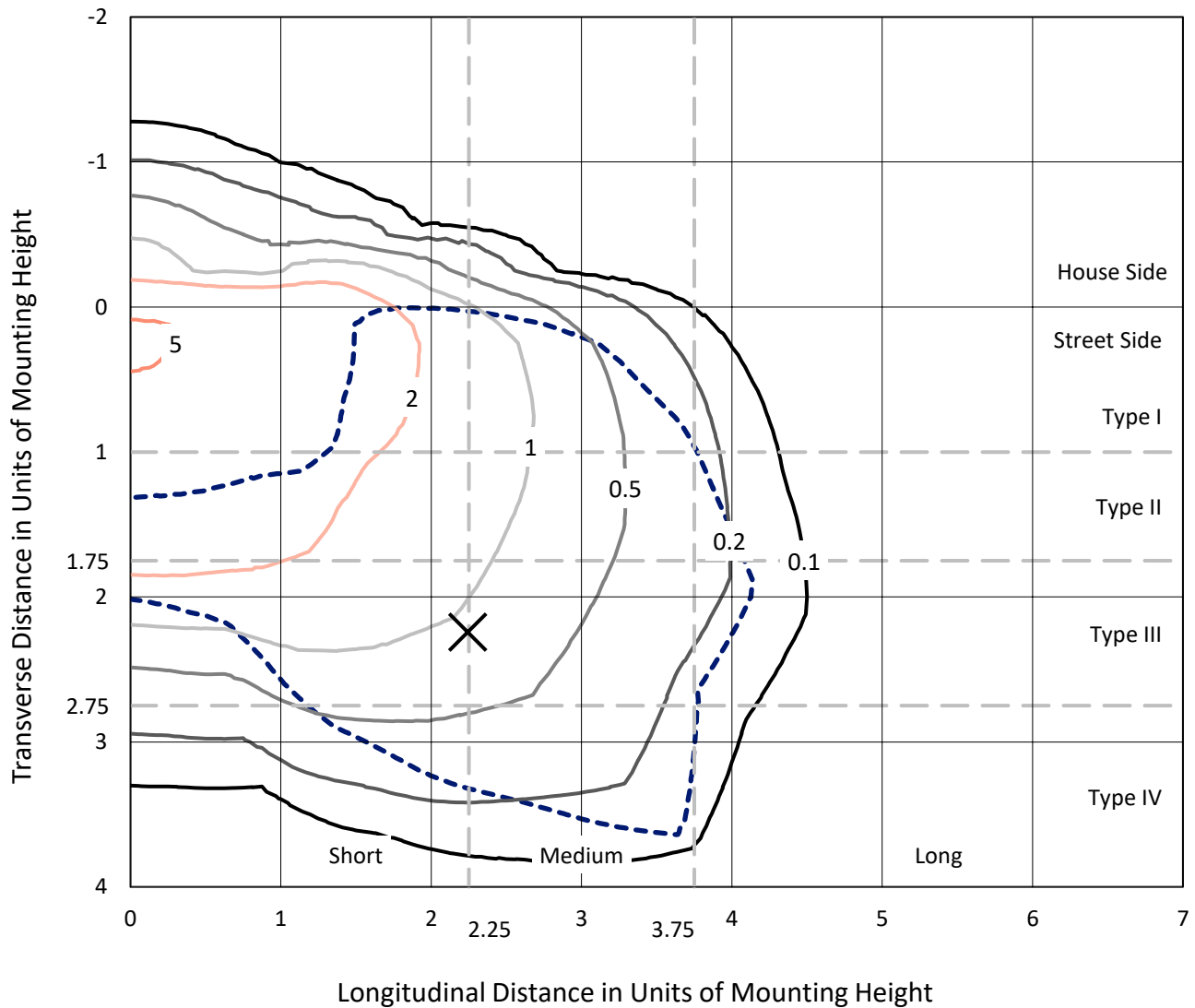
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

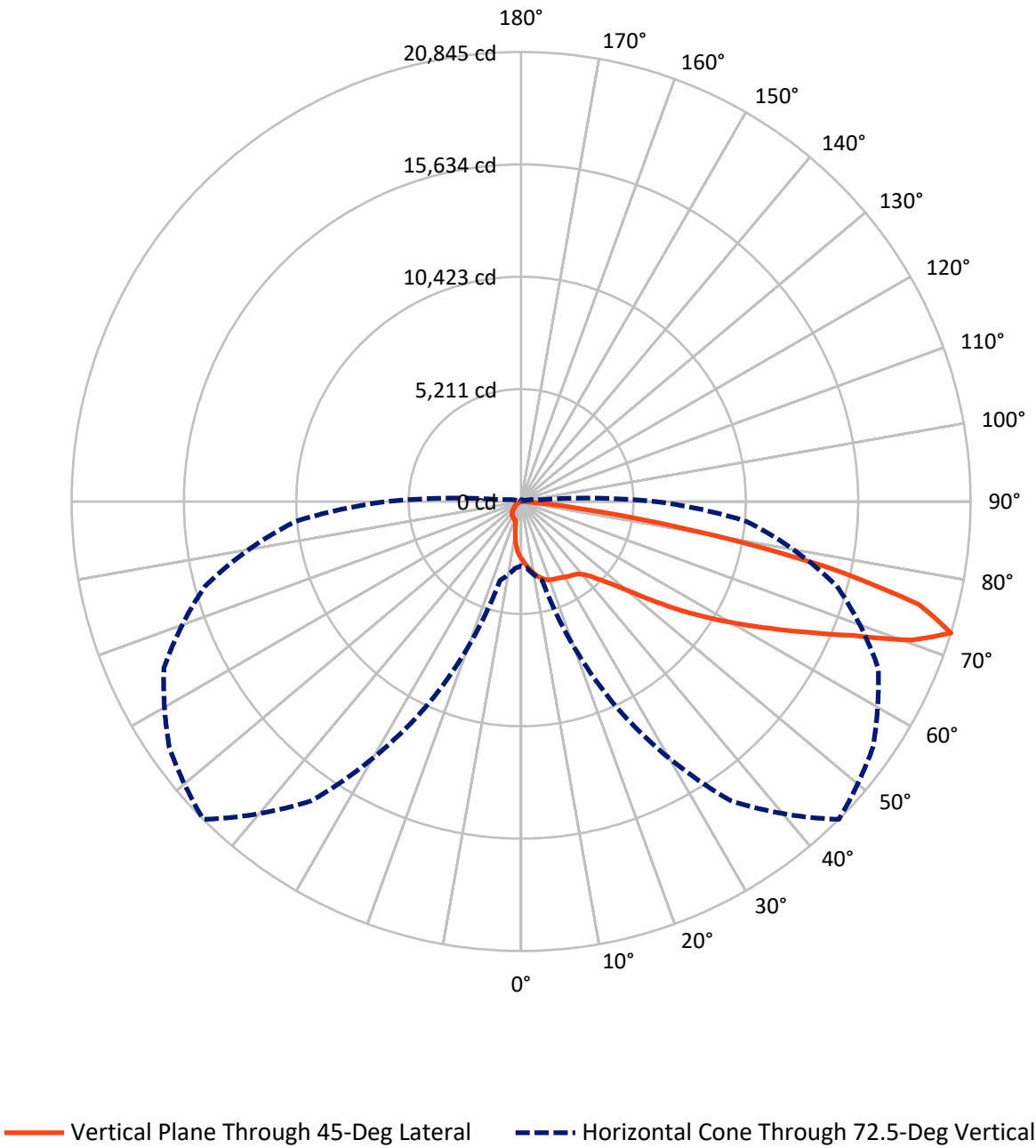
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2545.5	0.0	2545.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	21680.4	0.0	21680.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	24225.9	0.0	24225.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	1.0
10°-20°	730.8	3.0
20°-30°	1200.1	5.0
30°-40°	1702.0	7.0
40°-50°	2813.3	11.6
50°-60°	5053.8	20.9
60°-70°	7017.5	29.0
70°-80°	5090.2	21.0
80°-90°	368.0	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°	24225.9	100.0
0°-180°	24225.9	100.0

Coefficient of Utilization



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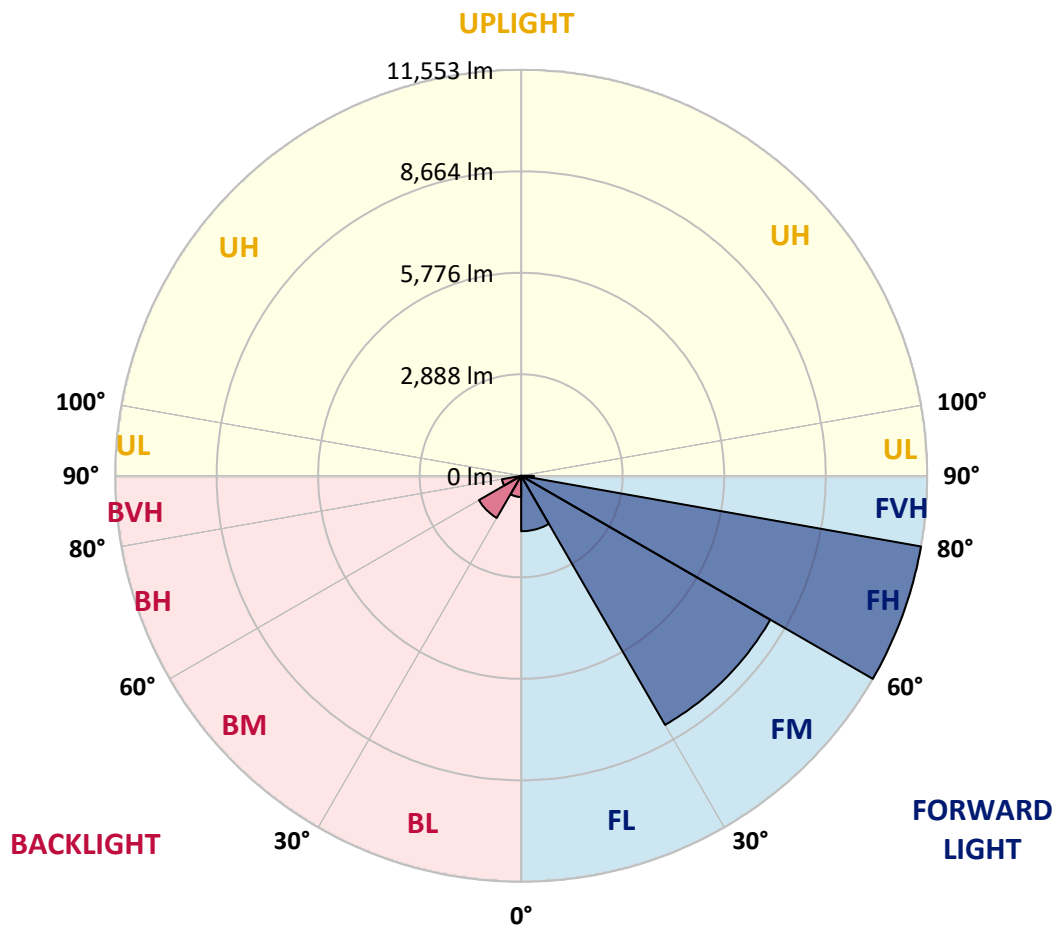
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1578.1	6.5			
FM	(30°-60°)	8184.8	33.8			
FH	(60°-80°)	11552.6	47.7			G4/12000
FVH	(80°-90°)	364.9	1.5			G3/500
BL	(0°-30°)	602.9	2.5	B2/1000		
BM	(30°-60°)	1384.4	5.7	B2/2500		
BH	(60°-80°)	555.1	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.1	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2654.0	2654.0	2654.0	2654.0	2654.0	2654.0	2654.0	2654.0	2654.0	2654.0	2654.0
2.5°	2898.7	2903.7	2900.3	2880.6	2847.4	2829.3	2819.4	2786.3	2764.8	2726.7	2687.0
5°	3165.0	3184.8	3173.2	3133.5	3070.7	3026.0	3012.8	2945.0	2883.8	2812.7	2730.1
7.5°	3447.7	3457.6	3436.1	3384.9	3300.5	3224.4	3212.9	3118.7	3021.1	2911.9	2799.5
10°	3692.5	3704.0	3670.9	3596.5	3500.6	3406.4	3389.9	3285.6	3169.9	3035.9	2892.1
12.5°	3897.5	3909.0	3866.1	3776.8	3670.9	3573.4	3556.9	3447.7	3320.4	3171.6	2993.0
15°	4053.0	4074.4	4016.6	3920.6	3806.5	3709.0	3700.8	3593.2	3469.2	3303.9	3113.6
17.5°	4143.9	4165.4	4110.8	3995.0	3897.5	3814.8	3804.9	3715.6	3599.8	3441.1	3231.1
20°	4158.7	4178.6	4120.7	4019.8	3938.9	3872.7	3867.7	3803.3	3718.9	3566.8	3358.4
22.5°	4114.1	4139.0	4086.0	4005.0	3948.7	3914.1	3907.4	3871.0	3823.0	3694.1	3477.5
25°	4067.8	4087.7	4047.9	3976.9	3947.1	3943.8	3948.7	3942.2	3932.2	3823.0	3616.4
27.5°	4064.5	4086.0	4041.4	3973.5	3957.0	3991.8	3996.7	4028.1	4036.3	3940.5	3750.3
30°	4092.6	4107.5	4064.5	3993.4	3985.1	4064.5	4066.2	4122.3	4135.6	4039.7	3882.6
32.5°	4153.8	4170.3	4127.4	4023.1	4011.5	4122.3	4127.4	4201.8	4223.2	4145.5	4021.5
35°	4297.6	4317.5	4267.9	4105.8	4064.5	4177.0	4191.8	4279.5	4322.4	4258.0	4165.4
37.5°	4656.5	4598.6	4530.8	4272.8	4185.2	4263.0	4287.8	4390.3	4466.3	4391.9	4337.4
40°	5547.8	5365.9	5154.2	4557.3	4396.8	4446.4	4466.3	4568.8	4673.0	4600.3	4573.8
42.5°	6885.5	6670.5	6329.9	5212.1	4716.0	4740.8	4755.7	4845.0	4992.2	4934.2	4940.9
45°	8077.7	8000.0	7652.8	6329.9	5313.0	5190.6	5208.7	5255.1	5471.7	5450.2	5493.2
47.5°	8993.9	8949.2	8681.3	7613.1	6321.7	5741.2	5792.5	5814.0	6126.5	6202.6	6318.3
50°	9698.2	9681.7	9442.0	8754.0	7639.5	6553.1	6571.4	6525.0	6993.0	7181.5	7401.4
52.5°	10363.0	10419.2	10242.3	9814.0	9046.8	7616.4	7613.1	7394.8	8026.5	8310.9	8686.3
55°	10963.2	10983.1	11001.2	10895.4	10462.2	8826.8	8795.4	8438.2	9225.3	9519.7	9926.4
57.5°	11527.2	11535.3	11697.4	11914.1	11935.5	10126.5	10068.7	9640.3	10534.9	10745.0	10994.7
60°	11905.8	11943.8	12286.1	12888.0	13151.0	11467.6	11436.1	10999.6	11867.8	11965.3	11919.0
62.5°	11360.1	11591.6	12454.8	13648.7	14298.5	12954.2	12939.3	12529.2	13270.0	13190.6	12793.7
65°	9195.6	9587.4	11105.5	14162.9	15424.6	14614.3	14635.9	14199.3	14710.3	14452.3	13504.8
67.5°	6432.4	6845.9	8641.6	14204.2	16683.0	16563.9	16687.9	16003.3	16239.8	15661.1	13673.5
70°	4448.1	4661.4	5830.5	13314.6	17663.5	19249.3	19246.0	18219.2	17761.1	16211.7	12813.6
72.5°	2991.4	3102.2	3786.7	10563.0	16942.5	20845.0	20749.1	19912.4	18273.7	15161.7	10468.8
75°	1261.7	1342.7	1752.7	5936.4	13403.9	19070.7	18811.1	17597.4	16236.5	11938.9	6531.6
77.5°	400.2	434.9	691.2	2124.8	7383.3	14334.9	14060.4	10989.7	10882.2	5989.3	2387.7
80°	190.1	221.6	388.6	853.2	2905.4	7796.7	7758.6	4985.5	4681.3	1617.2	479.5
82.5°	82.7	97.6	214.9	456.4	1299.7	2781.3	2837.5	1696.6	1403.8	613.5	147.2
85°	26.4	34.7	99.2	210.0	549.0	691.2	683.0	403.4	565.5	334.0	51.2
87.5°	0.0	0.0	33.1	48.0	56.3	39.7	44.7	34.7	157.1	92.6	18.1
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°	2654.0	2654.0	2654.0	2654.0	2654.0	2654.0	2654.0	2654.0	2654.0	2654.0	2654.0
2.5°	2667.3	2640.8	2594.5	2551.4	2513.4	2475.4	2452.2	2419.2	2415.9	2415.9	2424.1
5°	2685.4	2642.4	2559.7	2472.1	2371.2	2275.3	2179.5	2086.8	2057.1	2035.5	2045.5
7.5°	2738.3	2670.5	2540.0	2372.9	2181.1	1971.1	1823.9	1665.1	1604.0	1570.9	1575.8
10°	2814.3	2721.8	2523.3	2230.7	1919.8	1633.7	1423.7	1251.7	1185.6	1157.5	1157.5
12.5°	2898.7	2784.6	2493.6	2053.8	1633.7	1291.4	1086.4	1007.1	997.1	997.1	997.1
15°	2999.6	2860.7	2442.4	1845.4	1334.4	1021.9	949.1	952.4	962.4	969.0	969.0
17.5°	3103.8	2941.7	2361.3	1612.2	1069.9	919.4	921.1	926.0	934.3	940.8	940.8
20°	3216.2	3022.7	2253.9	1364.2	917.8	889.6	894.6	899.5	906.2	909.5	911.1
22.5°	3336.9	3098.8	2126.5	1121.1	866.4	864.8	866.4	871.5	879.7	879.7	883.0
25°	3465.9	3183.1	1981.0	944.2	840.0	840.0	843.4	846.6	853.2	853.2	854.8
27.5°	3598.2	3260.8	1827.2	851.6	816.8	815.2	815.2	820.2	823.5	825.1	826.8
30°	3743.7	3351.9	1673.4	831.8	798.7	790.4	785.5	788.7	792.0	793.8	797.0
32.5°	3892.5	3439.5	1536.2	840.0	780.5	765.6	749.1	745.8	745.8	752.3	757.4
35°	4057.9	3535.3	1430.4	868.2	770.6	729.2	702.7	687.9	689.5	699.5	704.4
37.5°	4256.3	3651.2	1352.6	893.0	763.9	687.9	644.9	626.7	615.1	626.7	623.4
40°	4515.9	3821.4	1296.4	912.8	755.7	639.9	582.1	552.3	530.8	537.4	534.1
42.5°	4897.9	4089.3	1274.9	914.4	737.5	583.7	517.5	477.9	446.5	448.1	441.5
45°	5433.6	4512.7	1385.7	893.0	697.8	522.5	449.8	396.9	377.0	372.1	365.4
47.5°	6167.8	5129.4	1642.0	848.3	639.9	463.0	383.7	339.0	324.1	315.8	310.9
50°	7151.7	5921.4	1926.4	798.7	582.1	406.8	329.0	300.9	291.0	282.8	281.2
52.5°	8292.7	6725.1	2159.6	749.1	524.2	357.2	294.4	277.8	269.6	262.9	261.3
55°	9339.4	7279.0	2146.4	696.2	467.9	317.4	269.6	259.6	249.7	243.0	239.7
57.5°	9991.0	7356.7	1769.4	638.3	403.4	286.1	246.4	239.7	228.2	220.0	218.2
60°	10290.2	6913.6	1240.1	562.2	339.0	256.4	221.6	218.2	203.4	191.8	188.5
62.5°	10344.8	6090.1	826.8	467.9	282.8	228.2	196.8	191.8	172.0	152.1	142.2
65°	10123.2	4912.8	572.2	365.4	241.4	198.4	168.7	158.8	137.2	117.4	110.8
67.5°	9422.1	3449.3	398.5	262.9	205.0	157.1	134.0	130.6	114.1	97.6	92.6
70°	8137.3	1966.2	266.2	196.8	162.1	107.5	105.8	109.2	92.6	79.3	72.8
72.5°	6239.0	899.5	165.3	143.9	110.8	72.8	84.4	86.0	71.1	59.6	52.9
75°	3672.6	385.3	104.1	92.6	56.3	48.0	61.2	62.8	48.0	38.0	33.1
77.5°	1250.1	145.5	66.1	54.5	28.1	26.4	39.7	39.7	26.4	14.9	11.6
80°	284.4	54.5	33.1	21.5	13.2	11.6	13.2	11.6	6.7	1.6	0.0
82.5°	81.0	21.5	13.2	8.3	4.9	4.9	1.6	0.0	0.0	0.0	0.0
85°	23.2	9.9	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	1.6	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)