

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: P884669

Luminaire Tested: **NVN-SB5C-830-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5C-830-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33274 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

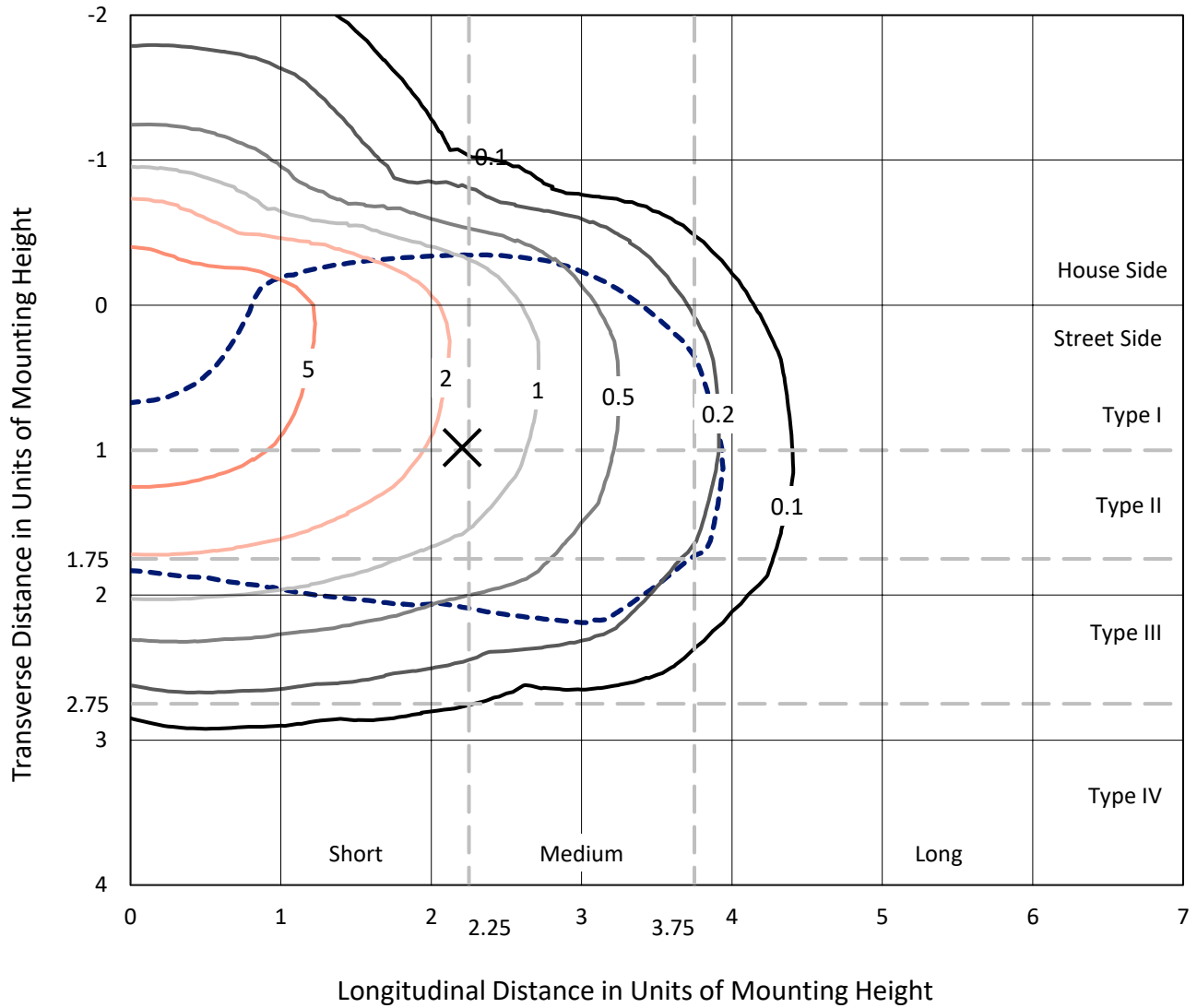
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

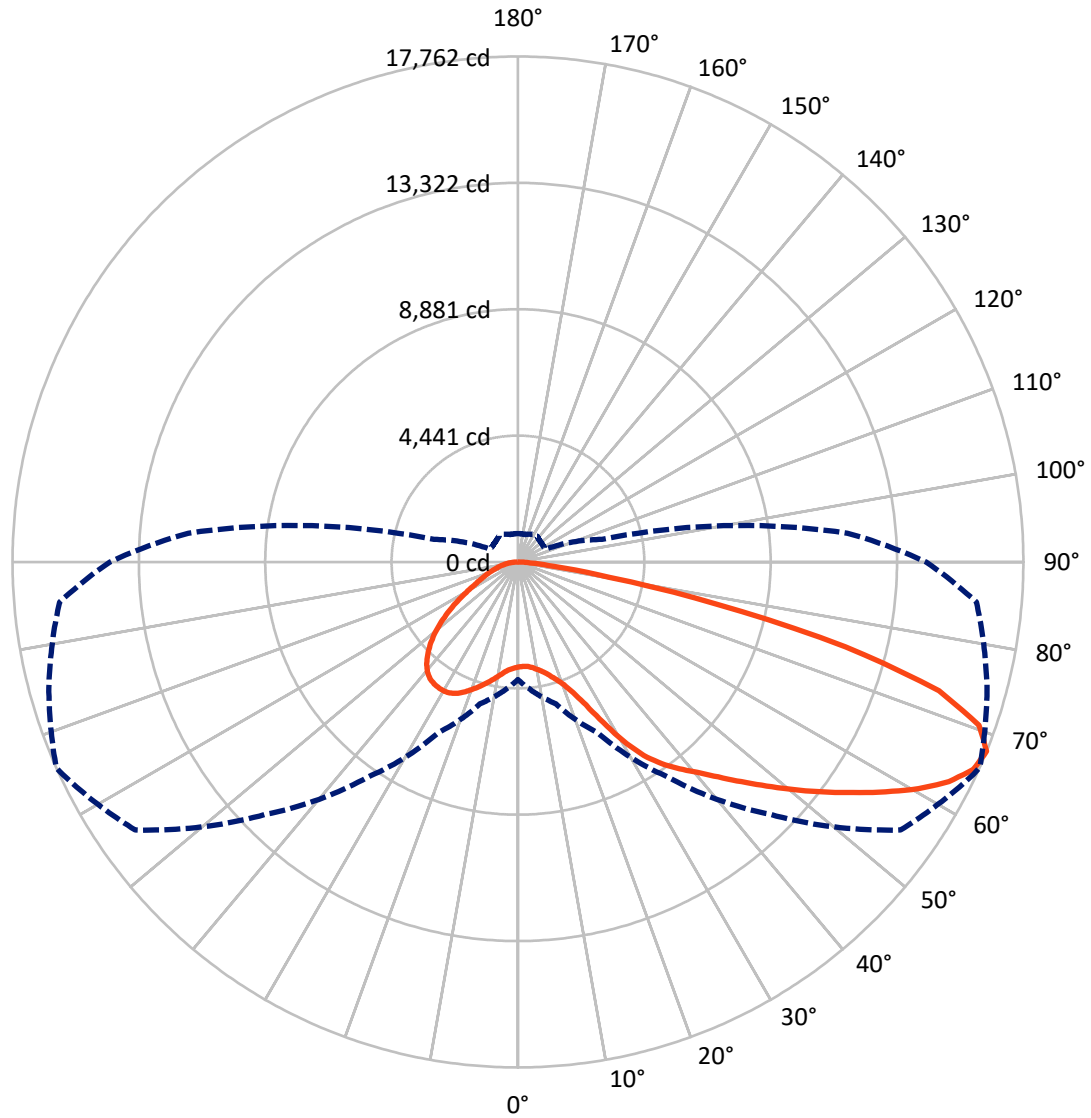
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8273.5	0.0	8273.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	25000.5	0.0	25000.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	33274.0	0.0	33274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.9	1.1
10°-20°	1208.9	3.6
20°-30°	2330.1	7.0
30°-40°	4085.5	12.3
40°-50°	6073.7	18.3
50°-60°	7699.1	23.1
60°-70°	7533.3	22.6
70°-80°	3593.5	10.8
80°-90°	384.0	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°	33274.0	100.0
0°-180°	33274.0	100.0

Coefficient of Utilization



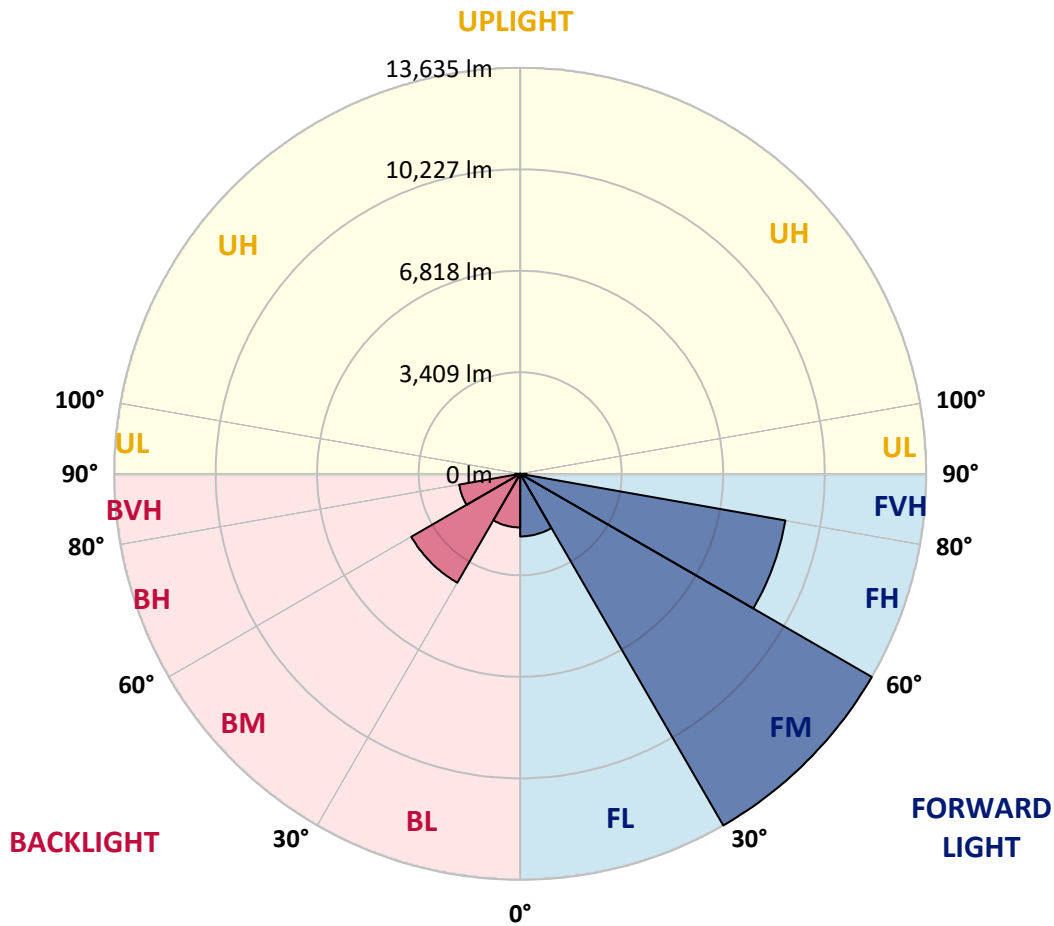
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2102.6	6.3			
FM (30°-60°)	13635.4	41.0			
FH (60°-80°)	9044.8	27.2			G4/12000
FVH (80°-90°)	217.7	0.7			G2/225
BL (0°-30°)	1802.3	5.4	B3/2500		
BM (30°-60°)	4222.9	12.7	B3/5000		
BH (60°-80°)	2082.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	166.3	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°	3690.5	3690.5	3690.5	3690.5	3690.5	3690.5	3690.5	3690.5	3690.5	3690.5	3690.5
2.5°	3652.1	3673.0	3667.8	3659.1	3657.3	3660.8	3666.1	3671.3	3669.5	3678.3	3692.3
5°	3641.6	3662.6	3660.8	3660.8	3667.8	3681.8	3690.5	3699.3	3690.5	3701.0	3720.2
7.5°	3648.6	3664.3	3671.3	3678.3	3695.8	3722.0	3743.0	3762.2	3751.7	3764.0	3788.4
10°	3737.7	3750.0	3757.0	3757.0	3769.2	3798.9	3819.9	3854.9	3846.1	3865.3	3896.8
12.5°	3900.3	3912.6	3912.6	3905.6	3914.3	3933.5	3940.5	3979.0	3963.3	3994.7	4026.2
15°	4099.6	4124.1	4104.9	4092.6	4096.1	4115.3	4113.6	4143.3	4127.6	4153.8	4181.8
17.5°	4319.9	4351.4	4319.9	4318.1	4311.2	4332.1	4333.9	4360.1	4332.1	4351.4	4370.6
20°	4580.4	4624.1	4597.9	4606.6	4590.9	4599.6	4608.4	4646.8	4603.1	4617.1	4611.8
22.5°	4947.5	5000.0	4972.0	5005.2	4994.7	4987.7	4986.0	5054.2	4986.0	4991.2	4940.5
25°	5482.5	5545.4	5496.5	5541.9	5541.9	5564.6	5590.9	5678.3	5564.6	5531.4	5400.3
27.5°	6272.7	6335.6	6239.5	6267.4	6258.7	6314.6	6286.7	6503.4	6381.1	6326.9	6062.9
30°	7223.7	7335.6	7153.8	7146.8	7138.0	7227.2	7267.4	7410.8	7286.6	7232.5	6914.3
32.5°	8251.7	8368.8	8152.0	8089.1	8055.9	8110.1	8076.9	8192.2	8106.6	8022.7	7629.3
35°	9339.1	9454.5	9248.2	9125.8	8992.9	8879.3	8760.4	8790.1	8709.7	8582.1	8174.8
37.5°	10367.0	10578.6	10360.0	10228.9	9984.2	9762.2	9430.0	9291.9	9216.7	9099.6	8688.7
40°	11414.2	11534.9	11368.8	11256.9	10991.2	10643.3	10111.8	9819.8	9718.4	9604.8	9256.9
42.5°	12185.2	12300.6	12211.4	12134.5	11926.5	11522.6	10835.6	10470.2	10323.3	10195.7	9900.3
45°	12797.1	12882.8	12826.8	12854.8	12765.6	12374.0	11585.6	11167.7	11015.6	10860.0	10627.5
47.5°	13043.6	13134.5	13223.7	13389.7	13541.8	13253.4	12391.5	11923.0	11762.1	11603.0	11374.0
50°	13015.6	13108.3	13367.0	13720.2	14192.2	14096.0	13241.1	12727.2	12578.6	12396.7	12185.2
52.5°	12791.8	12896.7	13228.9	13816.3	14568.1	14727.1	14106.5	13557.6	13417.7	13200.9	12989.4
55°	12204.4	12267.4	12765.6	13597.8	14657.2	15167.7	14954.4	14442.2	14302.3	13999.9	13769.1
57.5°	11115.3	11206.2	11931.7	13008.6	14433.4	15466.6	15699.2	15372.2	15237.6	14802.3	14561.1
60°	9694.0	9839.1	10669.5	12019.1	13863.5	15464.9	16375.7	16286.6	16174.7	15592.5	15340.8
62.5°	8085.6	8253.4	9052.4	10620.5	12867.0	15026.1	16798.8	17052.3	16994.6	16321.5	15999.9
65°	6209.7	6325.1	7120.6	8811.1	11316.3	14083.8	16847.8	17575.0	17585.5	16875.7	16344.3
67.5°	4134.6	4466.7	5157.3	6611.8	9239.4	12543.6	16417.7	17660.7	17762.1	17066.3	16171.2
70°	2017.5	2454.5	3131.1	4297.2	6611.8	10181.7	15293.6	16957.9	17183.4	16510.3	15139.7
72.5°	837.4	979.0	1347.9	2120.6	3795.4	6870.6	13034.8	15052.3	15470.1	14629.2	12728.9
75°	564.7	611.9	771.0	1087.4	1729.0	3388.1	9400.3	11223.7	11896.7	11048.9	9031.4
77.5°	435.3	465.0	561.2	760.5	1028.0	1281.5	5031.4	6763.9	7111.8	6583.9	4699.3
80°	342.7	365.4	419.6	554.2	729.0	685.3	1715.0	3064.7	3265.7	2739.5	1510.5
82.5°	297.2	305.9	300.7	375.9	484.3	400.3	562.9	1131.1	1248.2	905.6	493.0
85°	215.0	239.5	250.0	232.5	257.0	202.8	230.8	400.3	440.6	393.4	278.0
87.5°	87.4	129.4	159.1	150.3	94.4	57.7	71.7	117.1	134.6	146.9	90.9
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°	3690.5	3690.5	3690.5	3690.5	3690.5	3690.5	3690.5	3690.5	3690.5	3690.5	3690.5
2.5°	3694.0	3706.3	3715.0	3725.5	3732.5	3743.0	3764.0	3776.2	3777.9	3786.7	3784.9
5°	3727.2	3744.7	3764.0	3791.9	3823.4	3849.6	3889.8	3917.8	3928.3	3937.0	3935.3
7.5°	3798.9	3823.4	3858.4	3907.3	3952.8	3987.7	4036.7	4069.9	4103.1	4115.3	4117.1
10°	3905.6	3940.5	3991.2	4057.7	4106.6	4152.1	4202.8	4230.7	4263.9	4277.9	4284.9
12.5°	4038.4	4075.1	4141.6	4234.2	4279.7	4311.2	4328.6	4321.6	4328.6	4340.9	4344.4
15°	4190.5	4230.7	4305.9	4405.6	4437.0	4409.1	4370.6	4335.6	4330.4	4333.9	4346.1
17.5°	4370.6	4400.3	4487.7	4571.6	4548.9	4433.5	4349.6	4293.7	4265.7	4257.0	4269.2
20°	4622.3	4622.3	4694.0	4746.5	4594.4	4398.6	4267.4	4176.5	4118.8	4094.4	4089.1
22.5°	4928.3	4900.3	4945.8	4909.0	4585.6	4300.7	4118.8	3961.5	3874.1	3839.1	3833.9
25°	5316.4	5283.2	5270.9	5043.7	4522.7	4145.1	3849.6	3659.1	3582.1	3562.9	3566.4
27.5°	5902.0	5818.1	5659.0	5117.1	4407.3	3900.3	3534.9	3358.4	3314.7	3316.4	3321.6
30°	6681.8	6513.9	6124.1	5129.3	4218.5	3554.2	3213.3	3087.4	3066.4	3075.1	3104.9
32.5°	7403.8	7244.7	6599.6	5073.4	3928.3	3215.0	2924.8	2840.9	2809.4	2819.9	2833.9
35°	7970.2	7926.5	7040.1	4994.7	3571.6	2896.8	2666.1	2594.4	2533.2	2519.2	2529.7
37.5°	8505.2	8487.7	7370.6	4884.6	3218.5	2671.3	2458.0	2363.6	2274.5	2225.5	2227.3
40°	9092.6	9075.1	7587.3	4715.0	2905.6	2475.5	2271.0	2146.8	2036.7	1947.5	1956.3
42.5°	9753.4	9650.3	7690.5	4472.0	2639.8	2309.4	2118.9	1951.0	1805.9	1723.8	1729.0
45°	10475.4	10242.9	7688.7	4162.6	2416.1	2157.3	1956.3	1718.5	1583.9	1507.0	1503.5
47.5°	11241.2	10809.3	7594.3	3819.9	2199.3	1989.5	1704.5	1522.7	1433.6	1386.4	1375.9
50°	12031.4	11339.1	7433.5	3426.5	1977.3	1798.9	1547.2	1423.1	1354.9	1311.2	1295.4
52.5°	12774.4	11819.8	7239.4	2980.7	1751.7	1613.6	1477.3	1381.1	1309.4	1260.5	1239.5
55°	13464.9	12234.2	6965.0	2524.5	1568.2	1489.5	1444.0	1363.6	1281.5	1223.8	1201.0
57.5°	14078.5	12503.4	6491.2	2096.1	1437.1	1403.8	1409.1	1333.9	1239.5	1190.5	1159.1
60°	14589.0	12700.9	5790.2	1699.3	1330.4	1319.9	1354.9	1278.0	1167.8	1111.9	1087.4
62.5°	14895.0	12697.4	4930.0	1391.6	1239.5	1243.0	1283.2	1208.0	1096.1	1043.7	1028.0
65°	14868.7	12386.3	3986.0	1190.5	1152.1	1155.6	1208.0	1131.1	1036.7	1005.2	1003.5
67.5°	14342.5	11627.5	3057.7	1059.4	1055.9	1071.7	1132.9	1078.7	1000.0	996.5	1001.7
70°	12917.7	10052.4	2202.8	954.5	956.3	979.0	1059.4	1045.4	980.8	987.8	986.0
72.5°	10358.3	7664.3	1479.0	844.4	846.1	882.9	989.5	1019.2	961.5	1054.2	1068.2
75°	6898.5	4779.7	951.0	727.3	729.0	776.2	928.3	968.5	909.1	1050.7	1059.4
77.5°	3314.7	2148.6	688.8	611.9	611.9	655.6	802.4	867.1	774.5	816.4	748.2
80°	1145.1	807.7	542.0	493.0	482.5	512.2	676.6	751.7	667.8	615.4	576.9
82.5°	451.0	419.6	435.3	382.9	347.9	367.1	526.2	620.6	491.3	444.1	442.3
85°	258.7	272.7	307.7	253.5	201.0	225.5	386.4	445.8	370.6	326.9	333.9
87.5°	69.9	96.2	141.6	131.1	90.9	96.2	183.6	246.5	213.3	164.3	169.6
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)