

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: P971020

Luminaire Tested: **NVN-SB6C-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6C-827-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40107.2 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

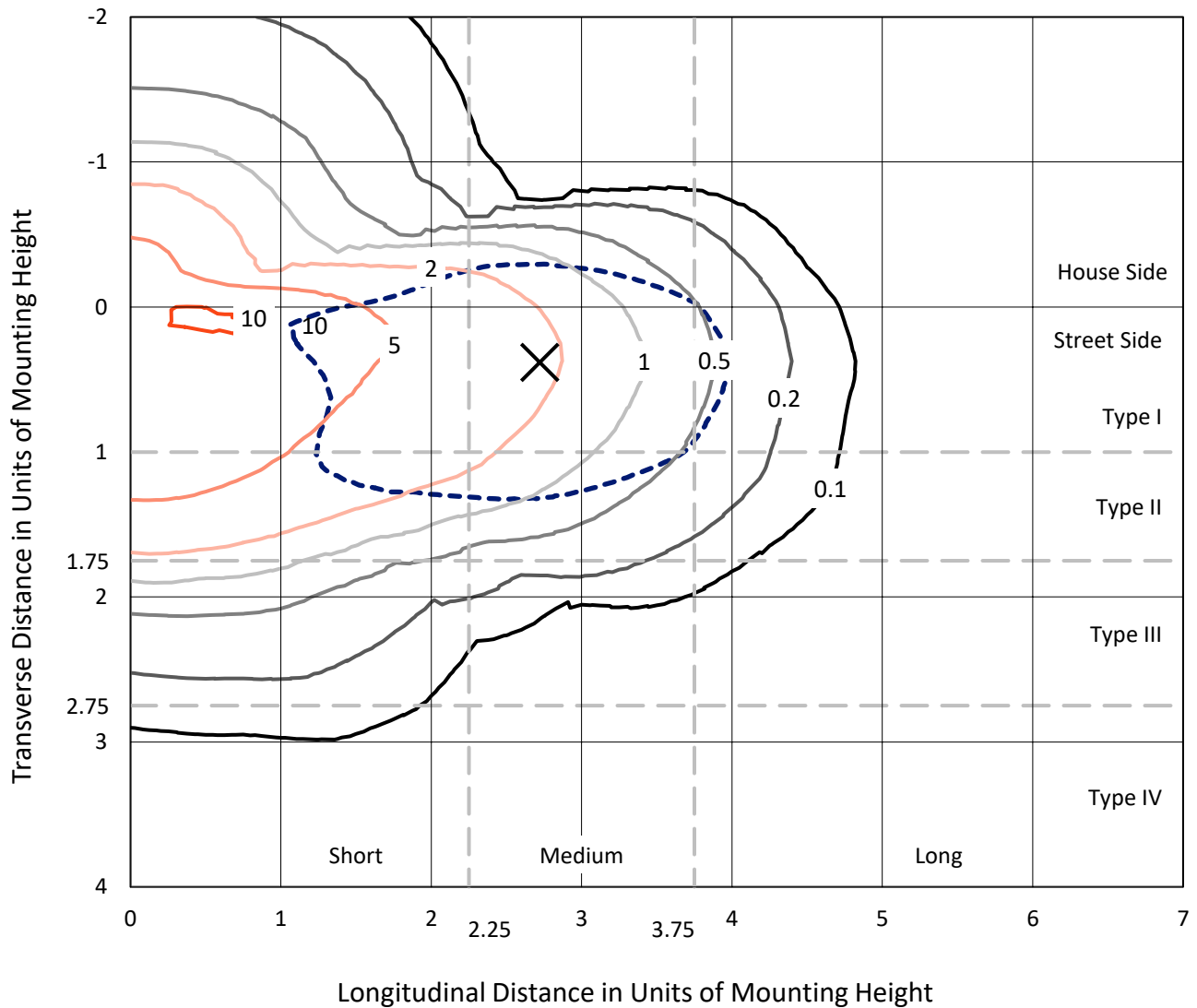
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

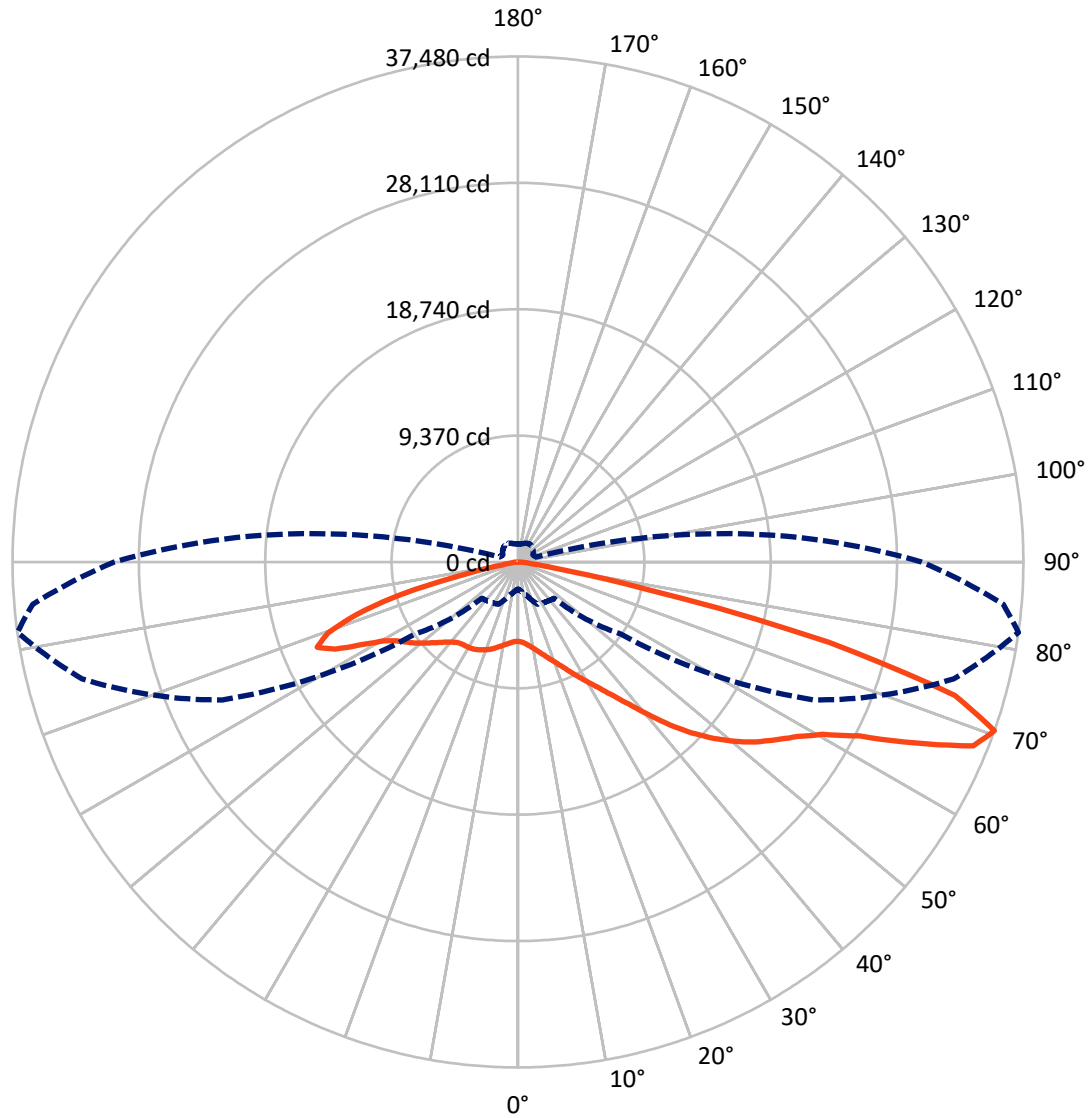
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9887.4	0.0	9887.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	30219.8	0.0	30219.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	40107.2	0.0	40107.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.2	1.4
10°-20°	1595.1	4.0
20°-30°	2668.5	6.7
30°-40°	4168.8	10.4
40°-50°	6639.3	16.6
50°-60°	9239.5	23.0
60°-70°	9664.9	24.1
70°-80°	5051.4	12.6
80°-90°	524.5	1.3
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°	40107.2	100.0
0°-180°	40107.2	100.0

Coefficient of Utilization

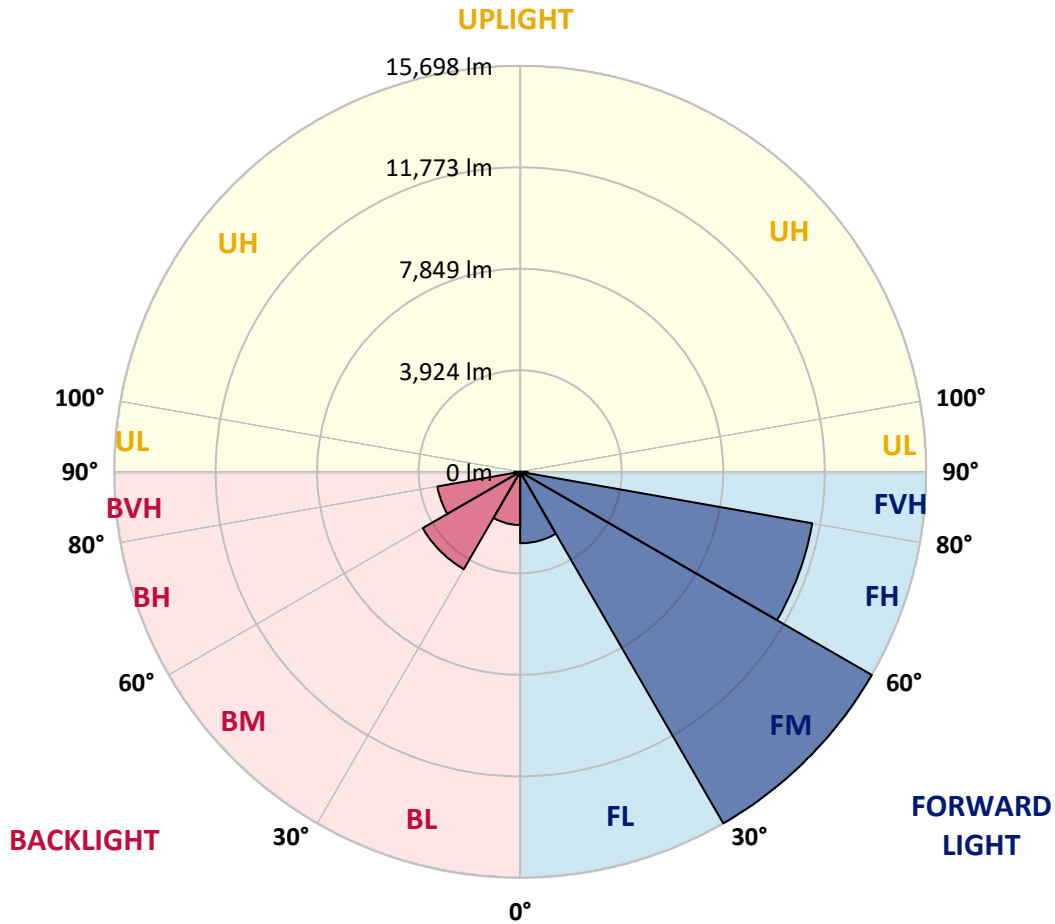


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2761.8	6.9			
FM (30°-60°)	15697.6	39.1			
FH (60°-80°)	11466.8	28.6			G4/12000
FVH (80°-90°)	293.6	0.7			G3/500
BL (0°-30°)	2056.9	5.1	B3/2500		
BM (30°-60°)	4350.1	10.8	B3/5000		
BH (60°-80°)	3249.5	8.1	B4/5000		G4/5000
BVH (80°-90°)	230.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5880.2	5880.2	5880.2	5880.2	5880.2	5880.2	5880.2	5880.2	5880.2	5880.2	5880.2
2.5°	6020.6	6054.8	6044.1	6033.5	6033.5	6018.6	6016.4	5995.1	5978.1	5950.4	5944.1
5°	6097.3	6133.5	6129.2	6137.7	6165.4	6171.8	6178.2	6165.4	6131.3	6097.3	6082.3
7.5°	6029.2	6069.6	6082.3	6133.5	6218.6	6295.2	6352.6	6376.1	6344.1	6295.2	6271.8
10°	5799.3	5844.0	5888.7	6010.1	6161.2	6342.1	6495.2	6586.8	6580.4	6533.6	6493.2
12.5°	5333.3	5380.1	5475.9	5712.1	5988.8	6308.0	6593.2	6784.7	6850.7	6816.7	6746.4
15°	4960.8	5001.3	5073.6	5316.3	5675.9	6161.2	6629.4	7001.8	7169.9	7150.7	7065.6
17.5°	4950.2	4967.3	5011.9	5126.8	5403.5	5931.3	6591.1	7214.6	7536.0	7533.9	7427.5
20°	5137.5	5143.9	5169.4	5192.9	5350.3	5756.8	6493.2	7391.3	7946.7	7946.7	7831.8
22.5°	5397.1	5392.8	5418.4	5397.1	5473.7	5741.8	6431.5	7546.6	8404.3	8438.3	8293.6
25°	5786.5	5765.3	5759.0	5710.0	5724.8	5880.2	6499.5	7723.3	8946.9	9017.2	8836.3
27.5°	6305.9	6271.8	6248.4	6135.6	6097.3	6165.4	6708.1	7936.1	9551.4	9672.7	9442.8
30°	6982.6	6920.9	6886.9	6691.1	6552.7	6563.4	7023.1	8219.1	10183.5	10379.3	10087.6
32.5°	7906.2	7810.5	7719.0	7397.6	7144.4	7061.3	7429.5	8610.7	10868.7	11181.5	10807.0
35°	8940.6	8864.0	8766.1	8270.2	7880.7	7689.2	7978.6	9157.7	11671.1	12167.0	11679.6
37.5°	9936.6	9870.6	9917.4	9249.2	8746.9	8468.1	8697.9	9891.9	12660.7	13392.8	12773.4
40°	10966.6	10915.5	10921.9	10283.5	9698.2	9385.4	9570.5	10813.4	13795.0	14850.6	14088.7
42.5°	12086.1	12047.7	11920.0	11353.9	10696.4	10404.8	10575.0	11877.5	15012.4	16510.6	15531.6
45°	13339.6	13316.2	13197.0	12547.8	11794.5	11466.8	11696.6	13052.2	16236.0	18072.7	16981.0
47.5°	14422.8	14441.9	14427.1	13880.1	13099.1	12618.1	12892.7	14278.1	17374.7	19541.1	18370.7
50°	14944.2	15044.2	15191.1	15020.9	14535.6	14046.1	14099.3	15461.4	18460.0	20918.1	19702.9
52.5°	14671.8	14861.3	15261.3	15533.8	15721.0	15618.8	15476.3	16636.2	19481.6	22161.0	20962.8
55°	13656.7	13922.7	14586.7	15244.3	16199.9	16942.6	17129.9	17938.6	20477.6	23254.9	22154.6
57.5°	11807.3	12239.3	12835.2	14165.3	15774.2	17583.2	19058.0	19745.5	21533.1	24423.3	23401.7
60°	8636.2	9215.2	9955.7	11935.0	14284.5	17240.6	20698.8	22520.6	23033.5	25936.4	25025.5
62.5°	5526.9	5884.5	6565.5	8429.8	11130.5	15484.8	21201.1	25989.6	25576.7	28417.9	27460.2
65°	3784.0	4013.8	4637.3	5684.4	7195.5	11526.3	19856.1	28590.2	29616.0	32350.7	31623.0
67.5°	2749.7	2924.1	3456.2	4373.5	4688.5	6820.9	15408.2	28471.1	33542.6	36402.9	35270.7
70°	2004.8	2128.2	2575.1	3456.2	3607.3	3794.6	9334.3	24201.9	33457.4	37479.7	36124.1
72.5°	1485.5	1570.6	1870.7	2681.5	2919.9	2562.4	4620.3	17589.6	28749.9	33900.1	32812.6
75°	1074.7	1138.6	1360.0	2051.5	2336.8	1951.6	2304.8	10279.2	20054.0	23846.5	24038.0
77.5°	821.4	870.4	1015.2	1502.5	1870.7	1464.2	1430.2	4728.8	9508.8	9555.7	10091.9
80°	659.8	691.7	770.4	1057.7	1434.4	1096.0	932.1	1909.0	3005.0	2543.2	2668.8
82.5°	485.2	538.4	651.2	742.7	1025.8	755.5	568.3	964.1	1142.9	983.2	991.8
85°	276.6	312.8	393.7	532.1	655.5	461.9	325.6	427.7	532.1	436.2	389.5
87.5°	97.9	127.7	138.4	208.6	285.2	191.6	125.6	123.4	174.6	129.9	108.5
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°	5880.2	5880.2	5880.2	5880.2	5880.2	5880.2	5880.2	5880.2	5880.2	5880.2	5880.2
2.5°	5922.8	5912.1	5869.6	5812.2	5752.5	5695.1	5675.9	5635.4	5607.8	5592.9	5609.9
5°	6042.0	6007.9	5907.9	5780.2	5646.1	5501.4	5399.3	5305.6	5237.5	5173.7	5199.2
7.5°	6212.2	6152.7	5980.3	5756.8	5518.4	5277.9	5099.2	4962.9	4871.4	4811.9	4824.7
10°	6410.1	6318.6	6054.8	5720.6	5352.4	5007.6	4797.0	4679.9	4622.4	4590.6	4599.1
12.5°	6637.9	6508.0	6131.3	5637.6	5099.2	4705.5	4560.7	4526.7	4528.9	4530.9	4535.2
15°	6918.7	6737.8	6193.0	5456.7	4769.3	4473.5	4448.0	4503.2	4560.7	4588.4	4586.3
17.5°	7235.9	6980.5	6203.7	5158.7	4445.8	4324.5	4405.3	4524.6	4611.8	4650.1	4658.6
20°	7576.4	7227.4	6127.1	4737.3	4179.7	4203.2	4347.9	4501.2	4596.9	4645.9	4658.6
22.5°	7965.9	7491.3	5944.1	4294.8	3962.8	4071.3	4241.6	4390.5	4490.5	4539.4	4552.2
25°	8410.6	7787.1	5656.8	3922.3	3775.4	3922.3	4092.5	4215.9	4296.8	4341.5	4354.3
27.5°	8904.4	8095.7	5273.7	3626.4	3611.6	3769.0	3909.6	4005.3	4047.8	4081.9	4094.7
30°	9400.3	8376.6	4809.7	3403.0	3469.0	3617.9	3718.0	3760.5	3773.3	3779.7	3794.6
32.5°	9936.6	8619.2	4322.4	3217.9	3332.8	3471.1	3530.7	3549.9	3490.2	3449.8	3462.6
35°	10585.7	8878.9	3845.7	3071.0	3198.7	3317.8	3337.0	3320.0	3249.8	3166.7	3171.0
37.5°	11388.0	9202.3	3464.7	2966.8	3073.2	3151.9	3128.5	3124.2	3130.6	3032.7	3039.0
40°	12371.2	9623.7	3185.9	2885.9	2971.0	2988.0	2922.1	2958.1	2990.1	2841.2	2845.4
42.5°	13463.0	10132.3	3009.3	2830.5	2885.9	2845.4	2743.2	2783.7	2779.4	2583.6	2581.5
45°	14576.0	10685.7	2947.6	2790.0	2807.1	2726.2	2613.4	2624.1	2534.7	2358.0	2364.5
47.5°	15682.7	11279.5	2985.8	2756.0	2709.2	2617.6	2530.4	2483.6	2351.7	2219.7	2219.7
50°	16768.1	11903.0	3126.4	2688.0	2575.1	2521.9	2458.1	2375.0	2234.6	2121.9	2113.3
52.5°	17774.7	12530.8	3283.8	2575.1	2407.0	2438.9	2398.5	2302.8	2164.4	2049.5	2051.5
55°	18728.2	13158.6	3345.5	2419.7	2249.5	2366.5	2343.1	2166.5	2000.5	1906.9	1898.4
57.5°	19766.7	13914.2	3277.4	2221.9	2121.9	2283.6	2194.2	1998.3	1902.6	1832.4	1826.0
60°	21205.4	15099.6	3130.6	1977.1	2000.5	2160.1	2006.8	1926.0	1821.7	1743.0	1738.7
62.5°	23595.4	17310.8	2894.4	1734.5	1857.9	1977.1	1917.5	1836.6	1730.2	1653.6	1653.6
65°	27128.2	20383.9	2449.5	1545.1	1698.3	1798.4	1821.7	1740.9	1630.2	1549.3	1553.6
67.5°	30107.6	22312.1	1853.7	1387.5	1534.4	1653.6	1719.5	1640.8	1523.8	1445.0	1447.2
70°	29943.8	20911.7	1415.2	1232.3	1389.7	1511.1	1596.1	1534.4	1408.9	1334.3	1340.8
72.5°	26596.1	17493.8	1144.9	1074.7	1242.9	1362.0	1464.2	1417.4	1289.7	1217.3	1217.3
75°	19539.1	12418.1	915.1	915.1	1059.8	1206.7	1319.5	1289.7	1172.6	1121.6	1106.7
77.5°	8236.2	5209.9	717.2	759.7	881.1	1036.5	1176.9	1187.6	1085.4	1149.2	1042.8
80°	2189.9	1436.5	546.9	598.0	691.7	855.6	1023.7	1019.4	908.8	849.1	789.6
82.5°	834.2	566.1	389.5	421.4	500.1	655.5	810.9	836.4	725.7	627.8	627.8
85°	321.3	242.6	240.5	253.3	291.6	434.2	612.9	634.2	546.9	463.9	478.9
87.5°	83.0	72.4	89.4	85.2	134.1	232.0	351.2	363.9	334.2	193.6	276.6
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)