

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: P884267

Luminaire Tested: **NVN-SB5A-730-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5A-730-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22202 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

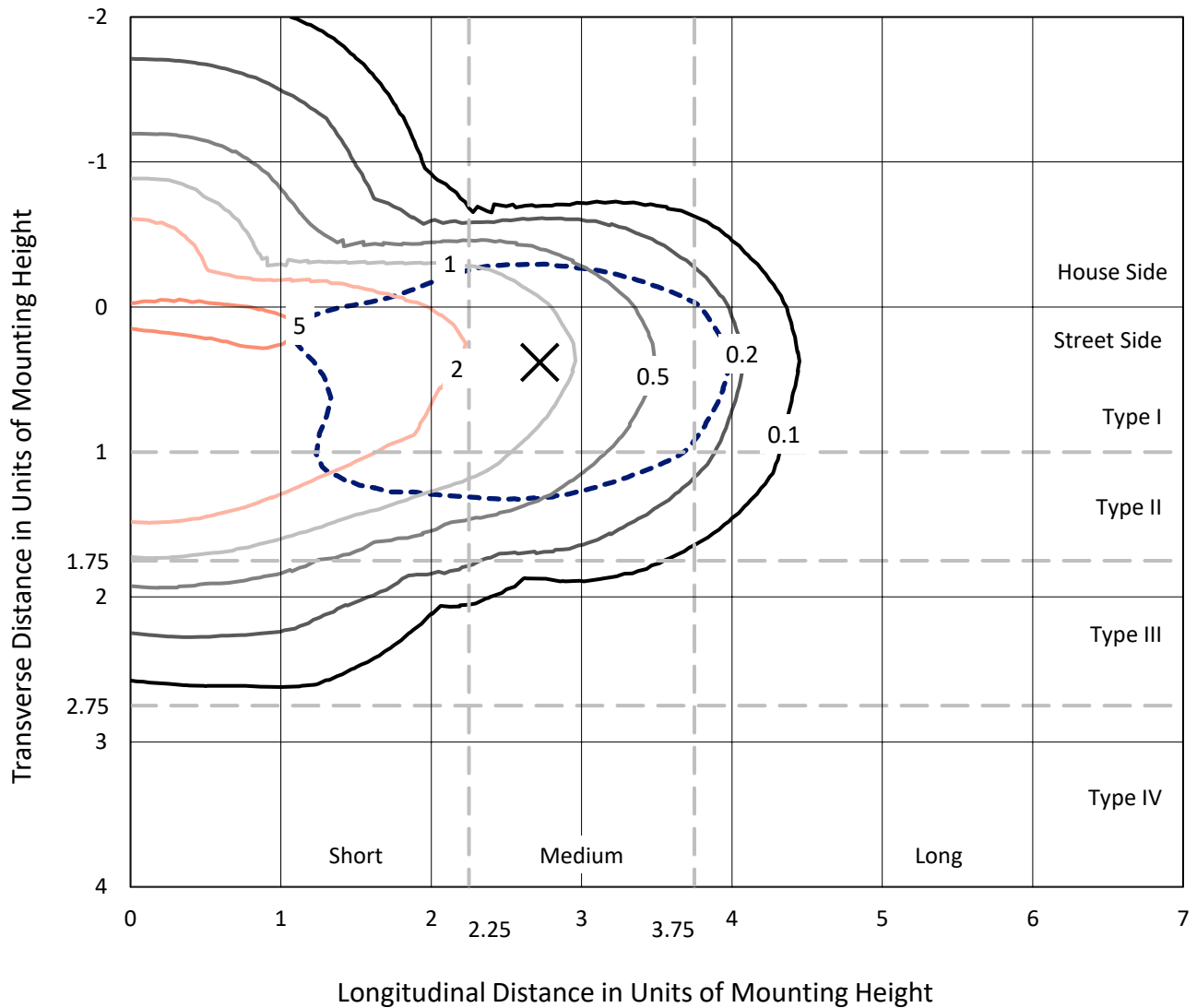
Input Watts (W): 141.7
Input Voltage (V): 120.0
Input Current (Ain): 1.201
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 10.503
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

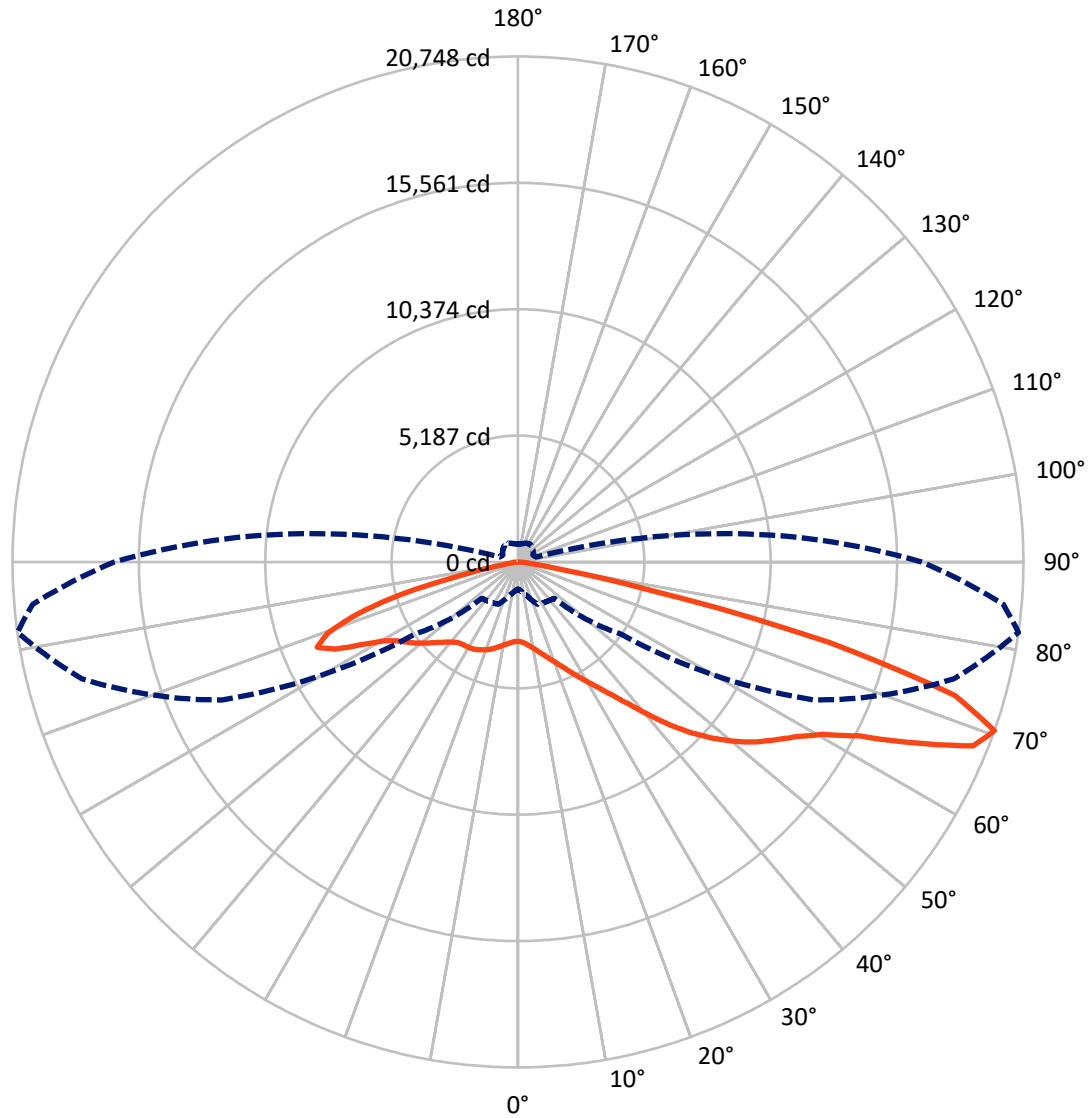
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	5473.3	0.0	5473.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	16728.7	0.0	16728.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	22202.0	0.0	22202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.3	1.4
10°-20°	883.0	4.0
20°-30°	1477.2	6.7
30°-40°	2307.7	10.4
40°-50°	3675.3	16.6
50°-60°	5114.7	23.0
60°-70°	5350.2	24.1
70°-80°	2796.3	12.6
80°-90°	290.4	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°	22202.0	100.0
0°-180°	22202.0	100.0

Coefficient of Utilization



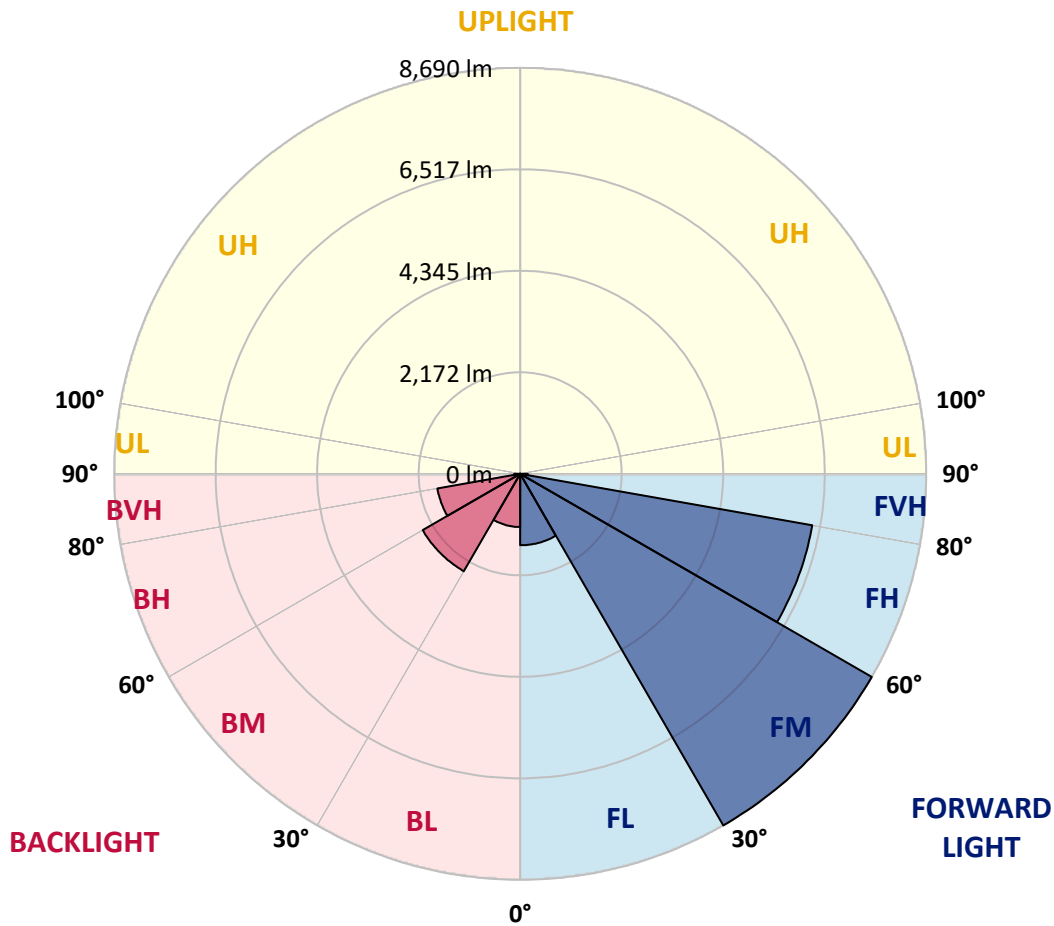
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.9	6.9			
FM (30°-60°)	8689.6	39.1			
FH (60°-80°)	6347.6	28.6			G3/7500
FVH (80°-90°)	162.5	0.7			G2/225
BL (0°-30°)	1138.7	5.1	B3/2500		
BM (30°-60°)	2408.1	10.8	B2/2500		
BH (60°-80°)	1798.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	127.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1
2.5°	3332.8	3351.7	3345.8	3339.9	3339.9	3331.7	3330.5	3318.7	3309.3	3294.0	3290.4
5°	3375.3	3395.3	3392.9	3397.6	3413.0	3416.5	3420.0	3413.0	3394.1	3375.3	3367.0
7.5°	3337.6	3359.9	3367.0	3395.3	3442.4	3484.8	3516.6	3529.6	3511.9	3484.8	3471.9
10°	3210.3	3235.1	3259.8	3327.0	3410.6	3510.7	3595.6	3646.2	3642.7	3616.8	3594.4
12.5°	2952.3	2978.2	3031.3	3162.0	3315.2	3491.9	3649.8	3755.8	3792.3	3773.5	3734.6
15°	2746.2	2768.5	2808.6	2942.9	3142.0	3410.6	3669.8	3875.9	3969.0	3958.4	3911.3
17.5°	2740.3	2749.7	2774.4	2838.0	2991.2	3283.4	3648.6	3993.8	4171.7	4170.5	4111.6
20°	2843.9	2847.5	2861.6	2874.6	2961.7	3186.8	3594.4	4091.5	4399.0	4399.0	4335.4
22.5°	2987.7	2985.3	2999.4	2987.7	3030.1	3178.5	3560.2	4177.5	4652.3	4671.2	4591.1
25°	3203.3	3191.5	3187.9	3160.8	3169.1	3255.1	3597.9	4275.3	4952.7	4991.6	4891.5
27.5°	3490.7	3471.9	3458.9	3396.5	3375.3	3413.0	3713.4	4393.1	5287.3	5354.5	5227.2
30°	3865.3	3831.2	3812.3	3703.9	3627.4	3633.3	3887.7	4549.8	5637.2	5745.6	5584.2
32.5°	4376.6	4323.6	4273.0	4095.1	3954.9	3908.9	4112.7	4766.6	6016.6	6189.7	5982.4
35°	4949.2	4906.8	4852.6	4578.1	4362.5	4256.5	4416.7	5069.4	6460.7	6735.2	6465.4
37.5°	5500.5	5464.0	5489.9	5120.0	4842.0	4687.7	4814.9	5475.8	7008.5	7413.8	7071.0
40°	6070.8	6042.5	6046.0	5692.6	5368.6	5195.4	5297.9	5985.9	7636.4	8220.8	7799.0
42.5°	6690.4	6669.2	6598.5	6285.2	5921.1	5759.7	5854.0	6575.0	8310.3	9139.7	8597.8
45°	7384.3	7371.4	7305.4	6946.1	6529.0	6347.6	6474.8	7225.3	8987.7	10004.4	9400.1
47.5°	7984.0	7994.6	7986.3	7683.6	7251.2	6985.0	7136.9	7903.9	9618.0	10817.3	10169.4
50°	8272.6	8328.0	8409.3	8315.0	8046.4	7775.5	7804.9	8558.9	10218.8	11579.5	10906.9
52.5°	8121.8	8226.7	8448.2	8599.0	8702.6	8646.1	8567.1	9209.2	10784.3	12267.6	11604.3
55°	7559.9	7707.1	8074.7	8438.7	8967.7	9378.9	9482.5	9930.2	11335.7	12873.1	12264.0
57.5°	6536.1	6775.3	7105.1	7841.4	8732.1	9733.5	10549.9	10930.4	11920.0	13519.9	12954.4
60°	4780.7	5101.2	5511.2	6606.8	7907.4	9543.8	11458.2	12466.7	12750.6	14357.5	13853.3
62.5°	3059.5	3257.4	3634.4	4666.5	6161.5	8571.9	11736.2	14387.0	14158.4	15731.2	15201.0
65°	2094.7	2221.9	2567.1	3146.7	3983.2	6380.6	10991.7	15826.6	16394.4	17908.3	17505.4
67.5°	1522.1	1618.7	1913.2	2421.0	2595.4	3775.8	8529.4	15760.6	18568.0	20151.4	19524.7
70°	1109.8	1178.1	1425.5	1913.2	1996.9	2100.6	5167.1	13397.4	18520.9	20747.5	19997.1
72.5°	822.3	869.4	1035.6	1484.4	1616.4	1418.4	2557.7	9737.0	15915.0	18766.0	18163.9
75°	594.9	630.3	752.8	1135.7	1293.6	1080.3	1275.9	5690.2	11101.2	13200.6	13306.6
77.5°	454.7	481.8	562.0	831.7	1035.6	810.5	791.7	2617.7	5263.8	5289.7	5586.6
80°	365.2	382.9	426.5	585.5	794.0	606.7	516.0	1056.8	1663.5	1407.8	1477.3
82.5°	268.6	298.1	360.5	411.2	567.8	418.2	314.6	533.7	632.6	544.3	549.0
85°	153.2	173.2	217.9	294.5	362.9	255.6	180.2	236.8	294.5	241.5	215.6
87.5°	54.2	70.7	76.6	115.5	157.9	106.0	69.5	68.3	96.6	71.9	60.1
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°	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1	3255.1
2.5°	3278.7	3272.8	3249.2	3217.4	3184.4	3152.6	3142.0	3119.6	3104.3	3096.0	3105.5
5°	3344.6	3325.8	3270.4	3199.7	3125.5	3045.4	2988.8	2937.0	2899.3	2864.0	2878.1
7.5°	3438.9	3405.9	3310.5	3186.8	3054.8	2921.7	2822.7	2747.3	2696.7	2663.7	2670.8
10°	3548.4	3497.8	3351.7	3166.7	2962.9	2772.1	2655.4	2590.6	2558.8	2541.2	2545.9
12.5°	3674.5	3602.6	3394.1	3120.8	2822.7	2604.8	2524.7	2505.8	2507.0	2508.2	2510.5
15°	3830.0	3729.9	3428.3	3020.6	2640.1	2476.4	2462.2	2492.9	2524.7	2540.0	2538.8
17.5°	4005.5	3864.2	3434.2	2855.7	2461.1	2393.9	2438.7	2504.6	2552.9	2574.1	2578.9
20°	4194.0	4000.8	3391.8	2622.5	2313.8	2326.7	2406.9	2491.7	2544.7	2571.8	2578.9
22.5°	4409.6	4146.9	3290.4	2377.4	2193.6	2253.7	2348.0	2430.4	2485.8	2512.9	2520.0
25°	4655.9	4310.7	3131.4	2171.2	2089.9	2171.2	2265.5	2333.8	2378.6	2403.3	2410.4
27.5°	4929.2	4481.5	2919.3	2007.5	1999.2	2086.4	2164.2	2217.2	2240.7	2259.6	2266.7
30°	5203.7	4637.0	2662.5	1883.8	1920.3	2002.8	2058.1	2081.7	2088.8	2092.3	2100.6
32.5°	5500.5	4771.3	2392.7	1781.3	1844.9	1921.5	1954.5	1965.1	1932.1	1909.7	1916.8
35°	5859.9	4915.0	2128.8	1700.0	1770.7	1836.7	1847.3	1837.8	1799.0	1753.0	1755.4
37.5°	6304.0	5094.1	1917.9	1642.3	1701.2	1744.8	1731.8	1729.5	1733.0	1678.8	1682.3
40°	6848.3	5327.4	1763.6	1597.5	1644.6	1654.1	1617.5	1637.6	1655.2	1572.8	1575.1
42.5°	7452.7	5608.9	1665.8	1566.9	1597.5	1575.1	1518.6	1541.0	1538.6	1430.2	1429.0
45°	8068.8	5915.2	1631.7	1544.5	1553.9	1509.1	1446.7	1452.6	1403.1	1305.3	1308.9
47.5°	8681.4	6243.9	1652.9	1525.6	1499.7	1449.1	1400.8	1374.8	1301.8	1228.8	1228.8
50°	9282.3	6589.1	1730.6	1487.9	1425.5	1396.0	1360.7	1314.8	1237.0	1174.6	1169.9
52.5°	9839.5	6936.7	1817.8	1425.5	1332.4	1350.1	1327.7	1274.7	1198.1	1134.5	1135.7
55°	10367.3	7284.2	1852.0	1339.5	1245.3	1310.0	1297.1	1199.3	1107.4	1055.6	1050.9
57.5°	10942.2	7702.4	1814.3	1229.9	1174.6	1264.1	1214.6	1106.2	1053.2	1014.3	1010.8
60°	11738.6	8358.6	1733.0	1094.5	1107.4	1195.8	1110.9	1066.2	1008.5	964.9	962.5
62.5°	13061.6	9582.7	1602.2	960.2	1028.5	1094.5	1061.5	1016.7	957.8	915.4	915.4
65°	15017.2	11283.8	1356.0	855.3	940.1	995.5	1008.5	963.7	902.4	857.7	860.0
67.5°	16666.6	12351.2	1026.1	768.1	849.4	915.4	951.9	908.3	843.5	799.9	801.1
70°	16575.9	11576.0	783.4	682.1	769.3	836.5	883.6	849.4	779.9	738.7	742.2
72.5°	14722.7	9684.0	633.8	594.9	688.0	754.0	810.5	784.6	713.9	673.9	673.9
75°	10816.1	6874.2	506.6	506.6	586.7	668.0	730.4	713.9	649.1	620.9	612.6
77.5°	4559.2	2884.0	397.0	420.6	487.7	573.7	651.5	657.4	600.8	636.2	577.3
80°	1212.3	795.2	302.8	331.0	382.9	473.6	566.7	564.3	503.0	470.1	437.1
82.5°	461.8	313.4	215.6	233.3	276.9	362.9	448.9	463.0	401.7	347.5	347.5
85°	177.9	134.3	133.1	140.2	161.4	240.3	339.3	351.1	302.8	256.8	265.1
87.5°	45.9	40.1	49.5	47.1	74.2	128.4	194.4	201.5	185.0	107.2	153.2
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)