

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: P883817

Luminaire Tested: **NVN-SB4B-830-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883817
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-SB4B-830-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19785 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

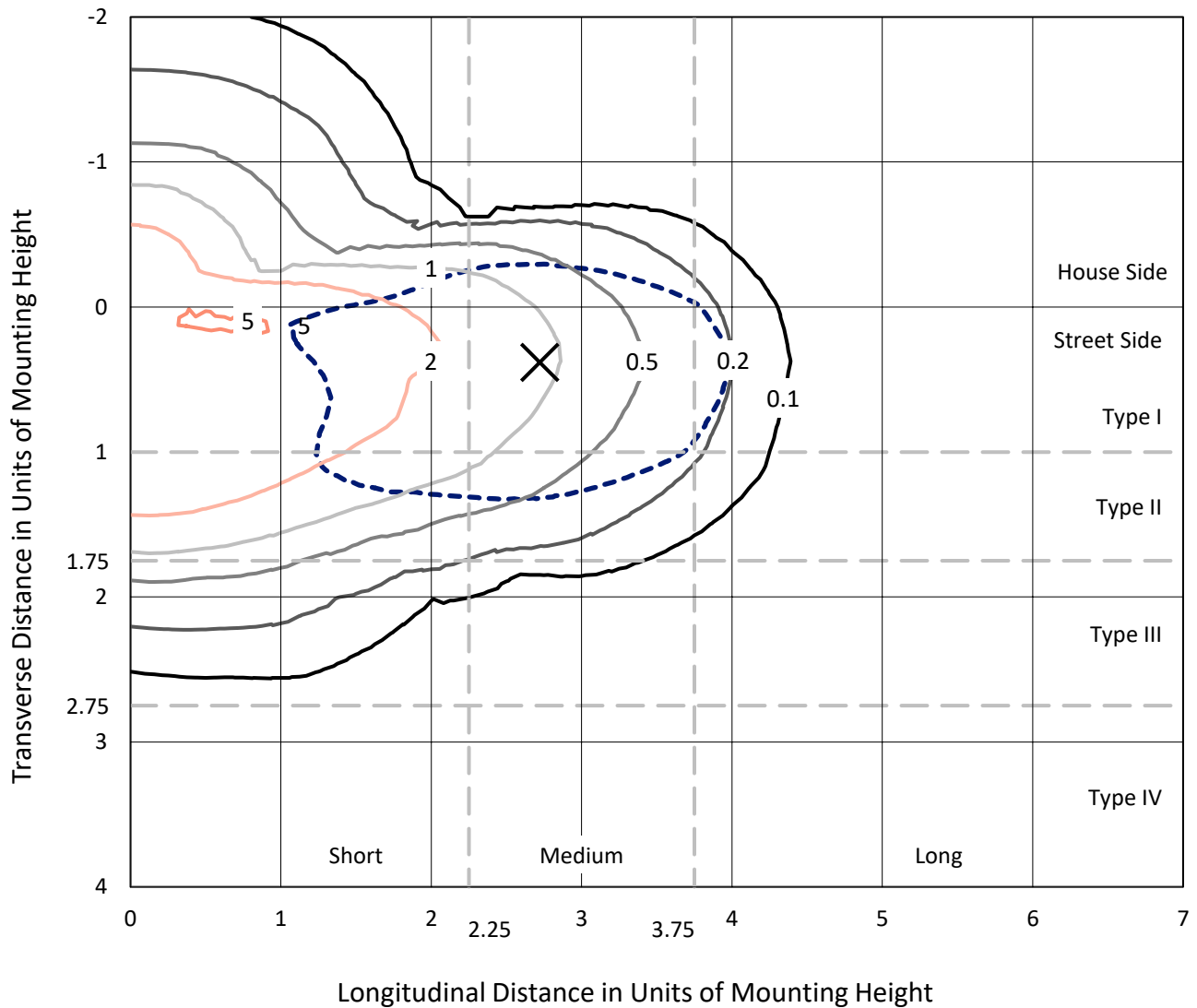
Input Watts (W): 147
Input Voltage (V): 120.0
Input Current (Ain): 1.255
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

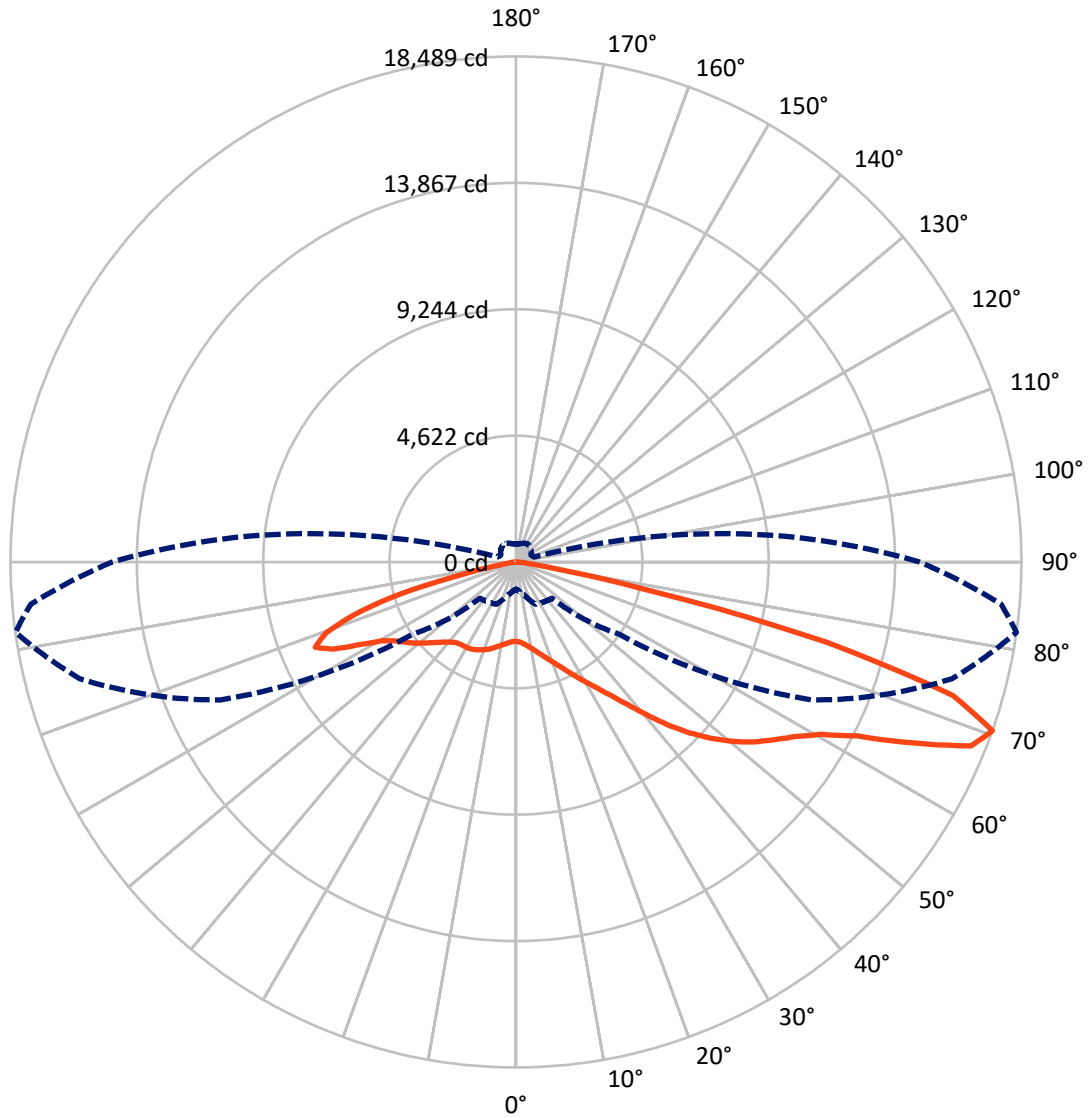
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	4877.5	0.0	4877.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	14907.5	0.0	14907.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	19785.0	0.0	19785.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	1.4
10°-20°	786.9	4.0
20°-30°	1316.4	6.7
30°-40°	2056.5	10.4
40°-50°	3275.2	16.6
50°-60°	4557.9	23.0
60°-70°	4767.7	24.1
70°-80°	2491.9	12.6
80°-90°	258.8	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°	19785.0	100.0
0°-180°	19785.0	100.0

Coefficient of Utilization



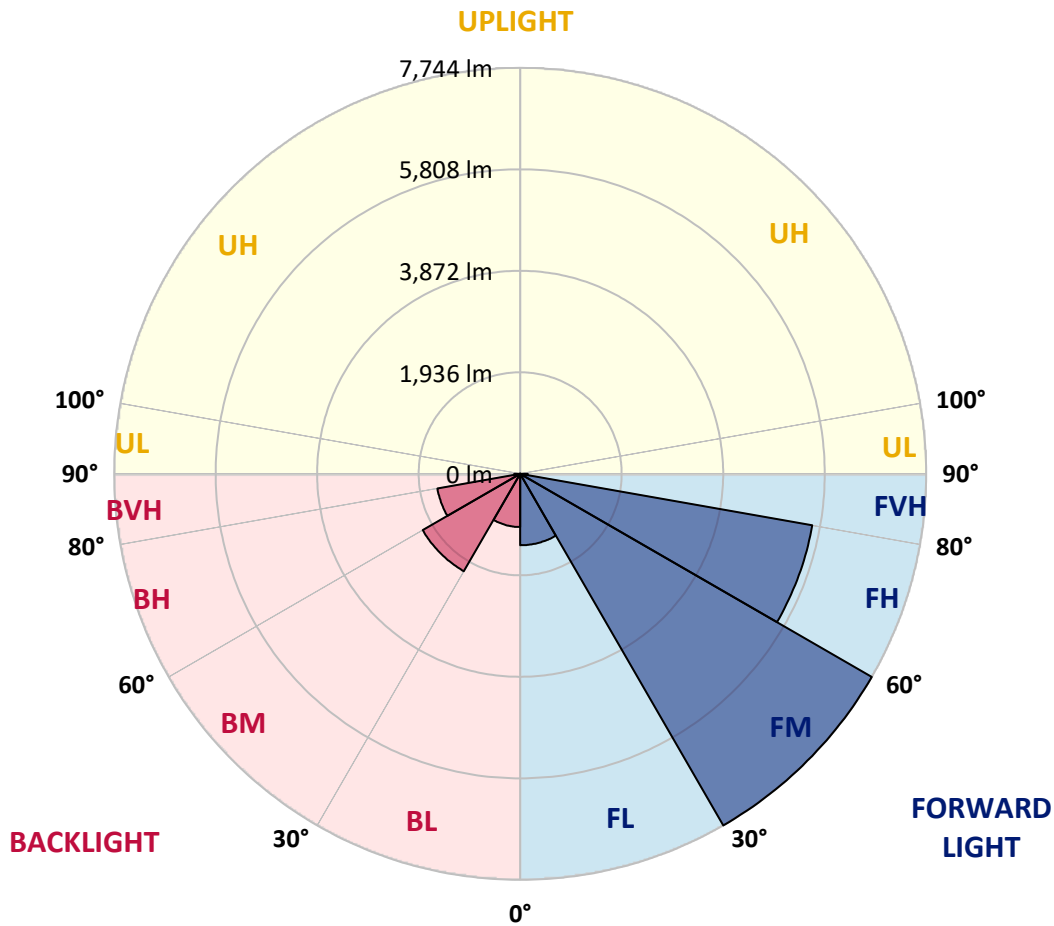
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1362.4	6.9			
FM (30°-60°)	7743.7	39.1			
FH (60°-80°)	5656.6	28.6			G3/7500
FVH (80°-90°)	144.9	0.7			G2/225
BL (0°-30°)	1014.7	5.1	B3/2500		
BM (30°-60°)	2145.9	10.8	B2/2500		
BH (60°-80°)	1603.0	8.1	B3/2500		G3/2500
BVH (80°-90°)	113.9	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°	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7
2.5°	2970.0	2986.8	2981.6	2976.3	2976.3	2969.0	2967.9	2957.4	2949.0	2935.4	2932.2
5°	3007.8	3025.7	3023.6	3027.8	3041.4	3044.6	3047.7	3041.4	3024.6	3007.8	3000.5
7.5°	2974.2	2994.2	3000.5	3025.7	3067.7	3105.4	3133.8	3145.3	3129.6	3105.4	3093.9
10°	2860.8	2882.9	2904.9	2964.8	3039.3	3128.5	3204.1	3249.3	3246.1	3223.0	3203.1
12.5°	2630.9	2654.0	2701.3	2817.8	2954.3	3111.7	3252.4	3346.9	3379.5	3362.7	3328.0
15°	2447.2	2467.1	2502.8	2622.5	2799.9	3039.3	3270.3	3454.0	3536.9	3527.5	3485.5
17.5°	2441.9	2450.3	2472.4	2529.1	2665.6	2925.9	3251.4	3559.0	3717.5	3716.5	3664.0
20°	2534.3	2537.5	2550.1	2561.6	2639.3	2839.8	3203.1	3646.1	3920.1	3920.1	3863.4
22.5°	2662.4	2660.3	2672.9	2662.4	2700.2	2832.5	3172.6	3722.8	4145.8	4162.6	4091.3
25°	2854.5	2844.0	2840.9	2816.7	2824.1	2900.7	3206.2	3809.9	4413.6	4448.2	4359.0
27.5°	3110.7	3093.9	3082.4	3026.7	3007.8	3041.4	3309.1	3914.9	4711.7	4771.6	4658.2
30°	3444.5	3414.1	3397.3	3300.7	3232.5	3237.7	3464.5	4054.5	5023.5	5120.1	4976.3
32.5°	3900.2	3852.9	3807.8	3649.3	3524.3	3483.4	3665.0	4247.7	5361.6	5515.9	5331.1
35°	4410.4	4372.6	4324.3	4079.7	3887.6	3793.1	3935.9	4517.5	5757.4	6002.0	5761.6
37.5°	4901.7	4869.2	4892.3	4562.6	4314.9	4177.3	4290.7	4879.7	6245.5	6606.7	6301.2
40°	5409.9	5384.7	5387.8	5072.9	4784.2	4629.8	4721.2	5334.3	6805.1	7325.8	6950.0
42.5°	5962.1	5943.2	5880.2	5600.9	5276.5	5132.7	5216.7	5859.2	7405.6	8144.7	7661.8
45°	6580.4	6568.9	6510.1	6189.9	5818.3	5656.6	5770.0	6438.7	8009.3	8915.3	8376.7
47.5°	7114.8	7124.3	7116.9	6847.1	6461.8	6224.5	6360.0	7043.4	8571.0	9639.7	9062.3
50°	7372.0	7421.4	7493.8	7409.8	7170.5	6929.0	6955.2	7627.1	9106.4	10319.0	9719.5
52.5°	7237.6	7331.1	7528.5	7662.8	7755.2	7704.8	7634.5	8206.7	9610.3	10932.1	10341.0
55°	6736.9	6868.1	7195.7	7520.1	7991.4	8357.8	8450.2	8849.2	10101.6	11471.7	10928.9
57.5°	5824.6	6037.7	6331.6	6987.8	7781.5	8673.8	9401.4	9740.5	10622.4	12048.0	11544.1
60°	4260.3	4545.8	4911.2	5887.5	7046.6	8504.8	10210.8	11109.5	11362.5	12794.5	12345.2
62.5°	2726.5	2902.8	3238.8	4158.4	5490.7	7638.7	10458.6	12820.7	12617.1	14018.6	13546.2
65°	1866.6	1980.0	2287.6	2804.1	3549.5	5686.0	9795.1	14103.7	14609.7	15958.7	15599.7
67.5°	1356.4	1442.5	1705.0	2157.4	2312.8	3364.8	7600.9	14044.9	16546.6	17957.6	17399.1
70°	989.0	1049.8	1270.3	1705.0	1779.5	1871.9	4604.6	11938.9	16504.7	18488.9	17820.1
72.5°	732.8	774.8	922.8	1322.8	1440.4	1264.0	2279.2	8677.0	14182.4	16723.0	16186.5
75°	530.2	561.7	670.9	1012.1	1152.7	962.7	1137.0	5070.8	9892.7	11763.5	11858.0
77.5°	405.2	429.4	500.8	741.2	922.8	722.3	705.5	2332.8	4690.7	4713.8	4978.4
80°	325.5	341.2	380.0	521.8	707.6	540.7	459.8	941.7	1482.4	1254.6	1316.5
82.5°	239.4	265.6	321.3	366.4	506.0	372.7	280.3	475.6	563.8	485.0	489.2
85°	136.5	154.3	194.2	262.5	323.4	227.8	160.6	211.0	262.5	215.2	192.1
87.5°	48.3	63.0	68.2	102.9	140.7	94.5	61.9	60.9	86.1	64.0	53.5
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°	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7
2.5°	2921.7	2916.5	2895.5	2867.1	2837.7	2809.4	2799.9	2780.0	2766.3	2759.0	2767.4
5°	2980.5	2963.7	2914.4	2851.4	2785.2	2713.9	2663.5	2617.3	2583.7	2552.2	2564.8
7.5°	3064.5	3035.1	2950.1	2839.8	2722.3	2603.6	2515.4	2448.2	2403.1	2373.7	2380.0
10°	3162.1	3117.0	2986.8	2822.0	2640.4	2470.3	2366.4	2308.6	2280.3	2264.5	2268.7
12.5°	3274.5	3210.4	3024.6	2781.0	2515.4	2321.2	2249.8	2233.0	2234.1	2235.1	2237.2
15°	3413.1	3323.8	3055.1	2691.8	2352.7	2206.8	2194.2	2221.5	2249.8	2263.5	2262.4
17.5°	3569.5	3443.5	3060.3	2544.8	2193.1	2133.3	2173.2	2232.0	2275.0	2293.9	2298.1
20°	3737.5	3565.3	3022.5	2337.0	2061.9	2073.4	2144.8	2220.4	2267.7	2291.8	2298.1
22.5°	3929.6	3695.5	2932.2	2118.6	1954.8	2008.4	2092.3	2165.8	2215.2	2239.3	2245.6
25°	4149.0	3841.4	2790.5	1934.9	1862.4	1934.9	2018.9	2079.7	2119.6	2141.7	2148.0
27.5°	4392.6	3993.6	2601.5	1788.9	1781.6	1859.3	1928.6	1975.8	1996.8	2013.6	2019.9
30°	4637.2	4132.2	2372.7	1678.7	1711.3	1784.7	1834.1	1855.1	1861.4	1864.5	1871.9
32.5°	4901.7	4251.9	2132.2	1587.4	1644.1	1712.3	1741.7	1751.1	1721.7	1701.8	1708.1
35°	5221.9	4380.0	1897.1	1514.9	1577.9	1636.7	1646.2	1637.8	1603.1	1562.2	1564.3
37.5°	5617.7	4539.5	1709.2	1463.5	1516.0	1554.8	1543.3	1541.2	1544.3	1496.0	1499.2
40°	6102.8	4747.4	1571.6	1423.6	1465.6	1474.0	1441.4	1459.3	1475.0	1401.5	1403.6
42.5°	6641.3	4998.3	1484.5	1396.3	1423.6	1403.6	1353.3	1373.2	1371.1	1274.5	1273.5
45°	7190.4	5271.3	1454.0	1376.3	1384.7	1344.9	1289.2	1294.5	1250.4	1163.2	1166.4
47.5°	7736.3	5564.2	1472.9	1359.6	1336.5	1291.3	1248.3	1225.2	1160.1	1095.0	1095.0
50°	8271.7	5871.8	1542.2	1326.0	1270.3	1244.1	1212.6	1171.6	1102.3	1046.7	1042.5
52.5°	8768.3	6181.5	1619.9	1270.3	1187.4	1203.1	1183.2	1135.9	1067.7	1011.0	1012.1
55°	9238.7	6491.2	1650.4	1193.7	1109.7	1167.4	1155.9	1068.7	986.9	940.7	936.5
57.5°	9751.0	6863.9	1616.8	1096.0	1046.7	1126.5	1082.4	985.8	938.6	903.9	900.8
60°	10460.7	7448.7	1544.3	975.3	986.9	1065.6	990.0	950.1	898.7	859.8	857.7
62.5°	11639.7	8539.5	1427.8	855.6	916.5	975.3	945.9	906.0	853.5	815.7	815.7
65°	13382.4	10055.4	1208.4	762.2	837.8	887.1	898.7	858.8	804.2	764.3	766.4
67.5°	14852.2	11006.6	914.4	684.5	756.9	815.7	848.3	809.4	751.7	712.8	713.9
70°	14771.4	10315.8	698.1	607.9	685.6	745.4	787.4	756.9	695.0	658.3	661.4
72.5°	13119.9	8629.7	564.8	530.2	613.1	671.9	722.3	699.2	636.2	600.5	600.5
75°	9638.6	6125.9	451.4	451.4	522.8	595.3	650.9	636.2	578.5	553.3	545.9
77.5°	4062.9	2570.0	353.8	374.8	434.6	511.3	580.6	585.8	535.4	566.9	514.4
80°	1080.3	708.6	269.8	295.0	341.2	422.0	505.0	502.9	448.3	418.9	389.5
82.5°	411.5	279.3	192.1	207.9	246.7	323.4	400.0	412.6	358.0	309.7	309.7
85°	158.5	119.7	118.6	124.9	143.8	214.2	302.4	312.9	269.8	228.9	236.2
87.5°	40.9	35.7	44.1	42.0	66.1	114.4	173.2	179.5	164.8	95.5	136.5
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)