

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: P881951

Luminaire Tested: **NVN-SB1C-830-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1C-830-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

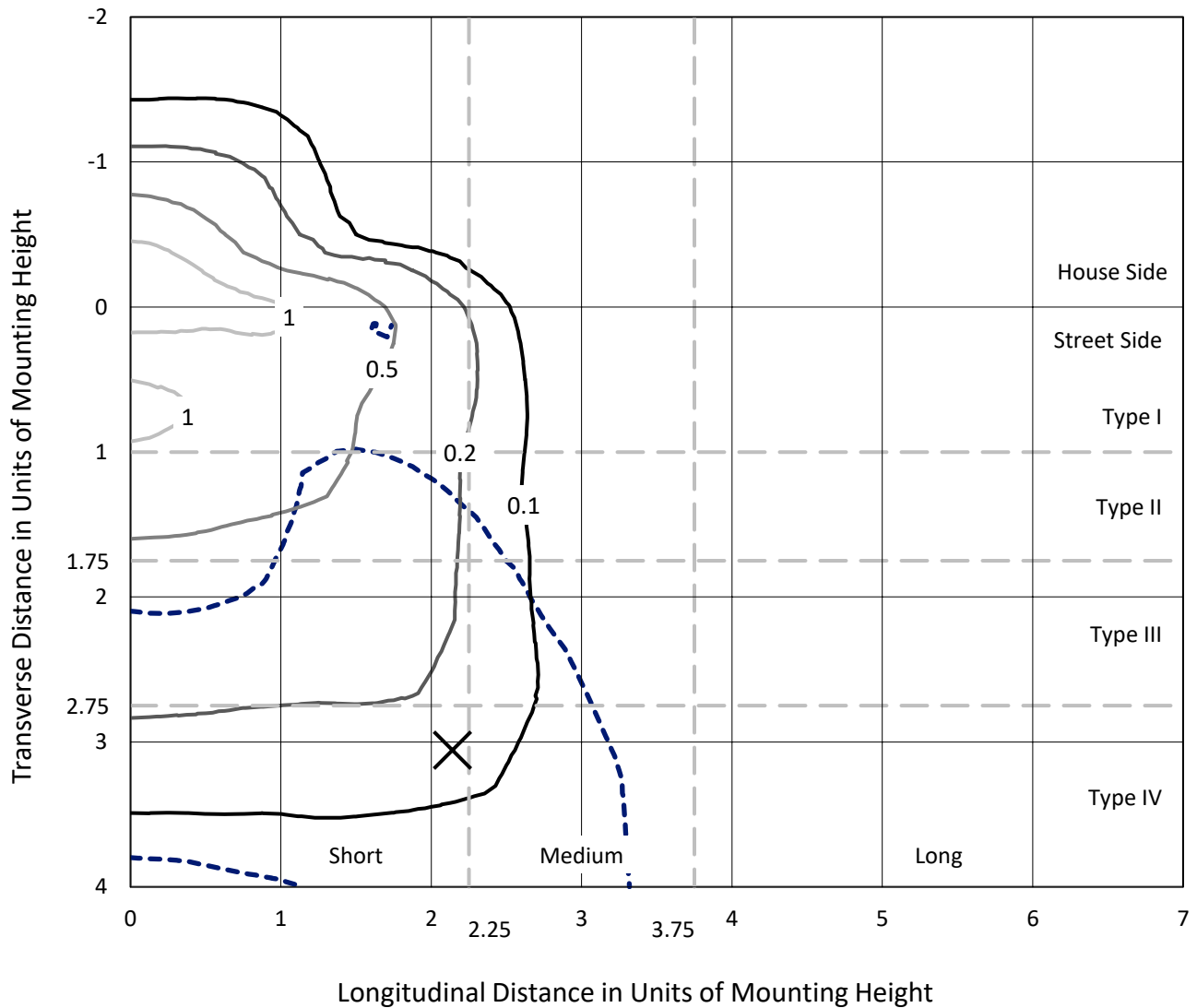
Lumens per Lamp: N/A  
Luminaire Lumens: 6482 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): 120.0  
Input Current (Ain): 0.437  
Voltage Rise (V): NR  
Power Factor: 0.993  
Total Harmonic Distortion (THDi): 9.314  
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

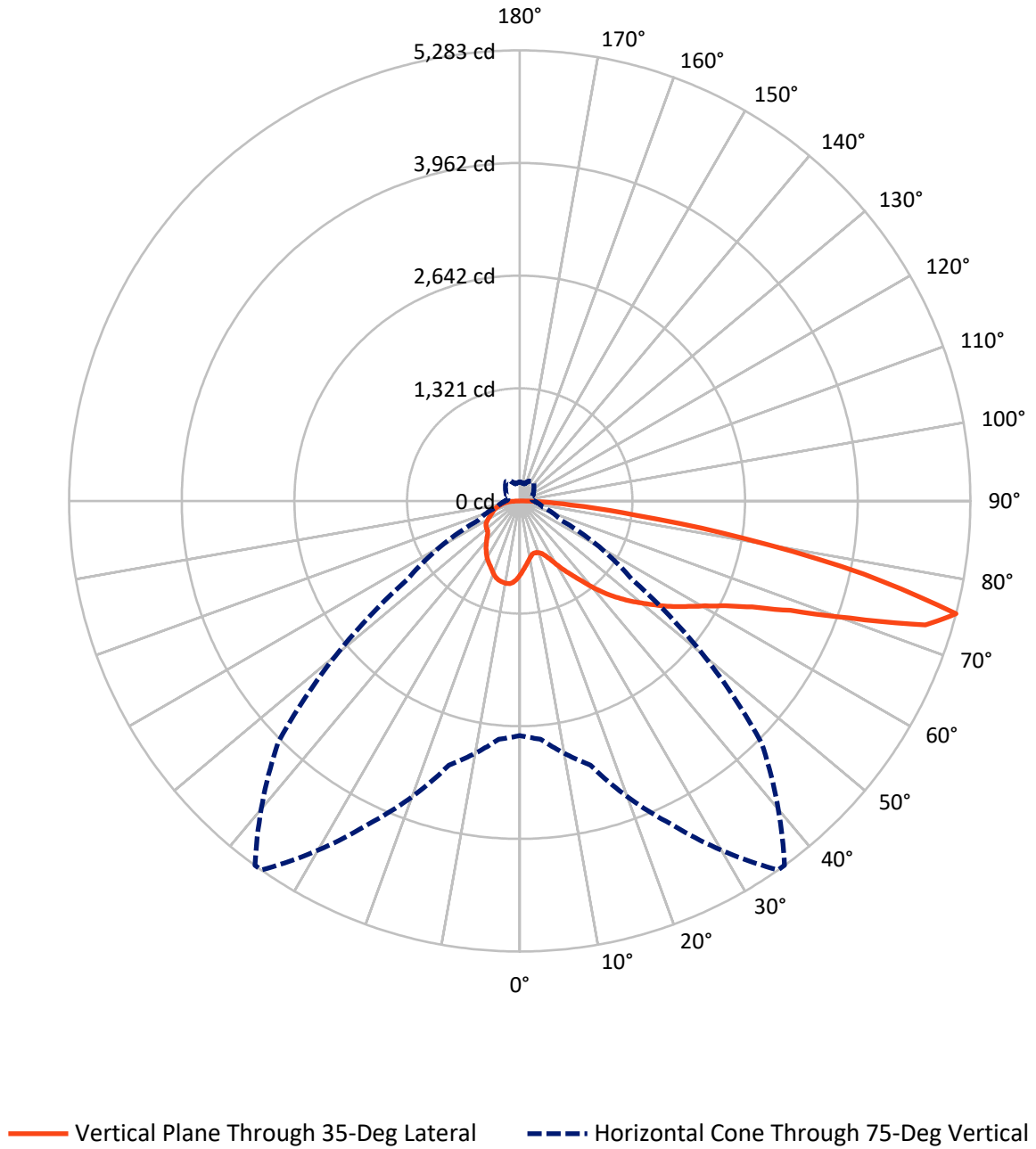
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1542.6	0.0	1542.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	4939.4	0.0	4939.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	6482.0	0.0	6482.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	1.3
10°-20°	235.9	3.6
20°-30°	396.1	6.1
30°-40°	615.6	9.5
40°-50°	913.8	14.1
50°-60°	1261.5	19.5
60°-70°	1530.5	23.6
70°-80°	1264.8	19.5
80°-90°	181.9	2.8
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°	6482.0	100.0
0°-180°	6482.0	100.0

**Coefficient of Utilization**



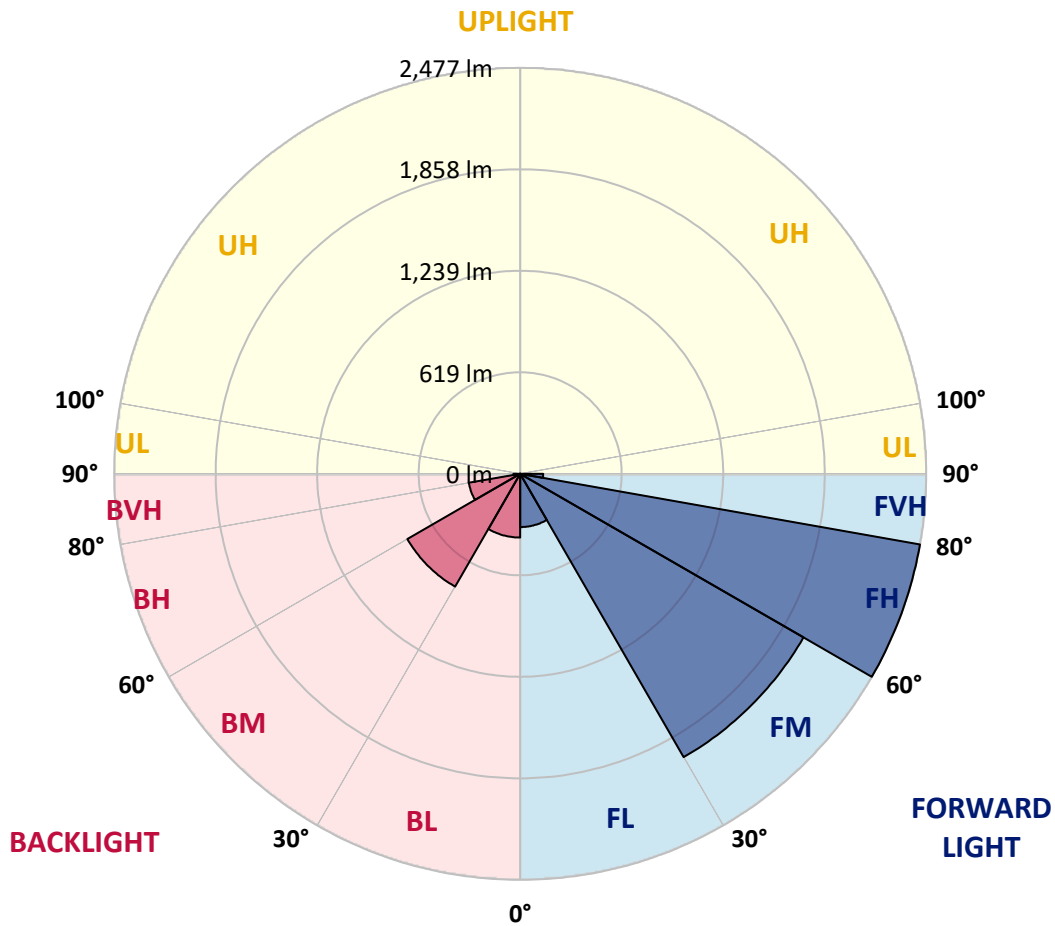
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.1	5.0			
FM (30°-60°)	1996.1	30.8			
FH (60°-80°)	2477.3	38.2			G2/5000
FVH (80°-90°)	141.0	2.2			G2/225
BL (0°-30°)	388.7	6.0	B1/500		
BM (30°-60°)	794.8	12.3	B1/1000		
BH (60°-80°)	318.0	4.9	B1/500		G1/500
BVH (80°-90°)	41.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8
2.5°	796.5	801.4	803.5	802.4	807.7	807.0	814.4	823.5	836.1	848.4	866.2
5°	735.2	740.4	745.0	749.2	759.3	762.5	774.1	791.6	814.7	838.2	867.6
7.5°	678.1	682.6	689.6	697.3	714.5	717.6	736.9	764.3	796.5	830.8	871.5
10°	631.4	636.0	643.4	652.1	673.5	677.4	701.9	738.3	780.4	823.8	875.7
12.5°	611.5	612.9	617.1	625.8	644.4	646.9	673.8	715.5	764.6	818.6	882.0
15°	610.4	613.2	613.6	618.1	633.5	634.6	659.5	700.8	754.8	817.5	891.5
17.5°	620.9	623.0	619.9	622.7	635.7	637.4	657.0	693.8	751.6	822.1	907.6
20°	649.0	650.7	641.3	637.4	646.9	648.3	667.5	698.4	754.8	831.5	929.6
22.5°	708.5	709.6	686.5	670.7	671.4	672.1	688.9	716.9	767.1	848.7	957.7
25°	801.4	800.7	763.9	733.4	715.9	712.0	723.3	747.1	787.7	871.5	993.8
27.5°	910.0	904.8	868.0	822.4	784.2	778.6	776.2	786.3	817.2	901.6	1037.9
30°	1032.7	1027.8	988.2	928.6	875.7	866.6	843.4	838.2	861.0	942.6	1099.2
32.5°	1167.2	1164.1	1116.8	1044.6	973.8	963.3	924.4	910.4	928.2	1004.6	1184.7
35°	1280.1	1277.3	1238.0	1163.7	1077.2	1064.2	1024.6	1008.8	1018.0	1084.2	1296.5
37.5°	1382.0	1380.6	1347.0	1288.5	1199.1	1183.3	1138.8	1133.6	1131.8	1189.0	1432.1
40°	1476.6	1473.1	1438.1	1407.3	1341.0	1326.7	1287.4	1282.9	1269.5	1317.9	1585.6
42.5°	1581.4	1572.3	1521.5	1507.1	1489.3	1477.3	1453.9	1454.6	1425.1	1463.3	1748.2
45°	1666.9	1661.7	1609.5	1601.0	1620.3	1615.4	1635.7	1641.0	1583.9	1615.8	1917.1
47.5°	1758.7	1753.8	1709.7	1703.7	1755.9	1757.3	1829.2	1830.9	1738.8	1774.1	2086.4
50°	1871.9	1864.9	1821.1	1828.5	1887.0	1892.2	2023.6	2011.7	1881.4	1935.0	2254.2
52.5°	1946.5	1950.8	1941.3	1953.2	2033.1	2038.0	2215.0	2184.5	2022.6	2093.7	2418.9
55°	2001.6	2010.0	2039.4	2066.7	2187.3	2192.2	2395.4	2348.8	2139.6	2240.9	2573.8
57.5°	2072.3	2060.4	2115.4	2168.7	2333.8	2346.7	2571.0	2507.2	2243.4	2367.7	2680.0
60°	2174.0	2165.6	2208.3	2287.2	2497.8	2518.4	2756.7	2649.8	2319.4	2468.3	2700.6
62.5°	2380.0	2359.0	2365.6	2435.4	2704.5	2731.8	2966.3	2774.2	2357.2	2507.6	2589.9
65°	2688.0	2651.9	2618.3	2666.7	2995.7	3022.7	3202.8	2872.0	2343.2	2431.5	2295.9
67.5°	3075.9	3040.2	2998.8	3044.4	3424.6	3446.0	3494.7	2927.0	2232.8	2138.6	1776.2
70°	3395.9	3382.5	3432.0	3619.4	4109.7	4110.4	3868.9	2881.5	1930.4	1516.2	1027.8
72.5°	3353.5	3345.4	3605.8	4185.3	4973.1	4954.5	4223.2	2536.6	1300.4	684.0	385.1
75°	2751.1	2803.3	3206.6	4175.2	5283.2	5280.7	4006.3	1612.6	537.9	283.5	199.0
77.5°	1475.2	1557.9	2081.8	3082.6	4124.4	4186.4	2816.6	564.2	230.9	181.5	137.7
80°	481.1	553.3	829.8	1569.5	2680.0	2668.4	1207.2	221.5	158.0	128.6	95.3
82.5°	204.3	212.7	370.7	741.1	1375.4	1354.0	384.4	127.2	111.1	88.0	58.9
85°	79.9	89.4	163.6	342.7	595.7	582.7	138.8	63.1	71.1	57.5	35.0
87.5°	26.3	31.9	58.5	117.4	185.4	178.7	34.0	21.7	30.8	26.3	12.6
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°	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8
2.5°	871.1	876.7	883.4	893.2	901.6	908.6	916.0	920.5	922.3	927.5	927.2
5°	877.4	889.7	906.2	922.3	938.1	947.5	955.9	960.1	964.0	966.8	967.5
7.5°	887.9	903.7	929.6	950.7	964.0	971.7	977.3	975.9	977.3	978.0	979.1
10°	897.1	919.1	950.0	969.9	980.1	980.5	979.1	974.2	971.7	972.0	972.7
12.5°	907.9	932.5	965.7	982.6	985.4	977.7	971.7	963.3	960.1	958.7	958.0
15°	922.6	950.7	982.9	989.2	982.2	972.4	962.2	948.6	941.6	936.0	937.7
17.5°	940.5	971.3	996.2	991.7	976.6	960.5	944.0	923.3	909.0	903.0	903.4
20°	965.4	993.1	1006.4	986.4	963.6	939.1	911.1	885.8	872.5	866.6	865.9
22.5°	995.5	1022.2	1016.2	977.3	945.1	905.8	870.8	852.2	845.5	841.3	842.0
25°	1031.6	1054.4	1023.2	964.0	914.6	861.7	834.7	828.7	825.6	822.4	822.4
27.5°	1078.6	1090.8	1028.5	944.4	866.9	814.7	804.9	806.0	804.9	799.6	800.7
30°	1140.6	1138.1	1033.4	912.5	812.3	772.3	773.0	777.6	778.3	774.8	776.5
32.5°	1222.2	1197.4	1035.8	871.1	760.0	735.2	735.9	740.8	744.3	738.3	741.1
35°	1321.1	1266.4	1032.0	819.3	719.8	699.8	694.5	695.9	697.0	691.4	695.2
37.5°	1436.3	1343.8	1014.8	761.8	686.5	665.1	653.9	644.4	638.8	633.5	637.1
40°	1562.8	1428.3	983.3	705.7	649.3	628.3	611.5	593.6	574.7	567.7	570.8
42.5°	1695.3	1515.2	945.1	652.1	606.6	589.4	571.5	545.6	517.2	502.8	504.6
45°	1832.7	1604.2	907.6	599.2	562.8	555.4	534.7	503.5	472.7	454.5	453.1
47.5°	1967.2	1688.3	852.6	545.9	521.8	529.8	513.7	485.0	450.6	421.9	418.7
50°	2095.8	1767.1	762.5	492.0	488.5	522.1	506.7	465.3	426.1	389.3	386.2
52.5°	2223.4	1830.9	647.2	442.9	470.6	520.0	497.6	452.0	404.0	365.5	361.3
55°	2331.7	1863.9	536.1	400.9	444.7	502.1	486.7	436.3	372.8	331.8	328.3
57.5°	2393.3	1837.2	443.6	359.5	408.9	472.7	468.2	402.6	335.7	304.2	300.0
60°	2366.7	1729.3	367.9	323.4	374.9	440.8	435.9	369.3	307.3	277.5	273.3
62.5°	2219.9	1523.6	308.0	291.9	344.1	408.2	403.7	343.8	285.6	256.9	252.3
65°	1924.1	1239.4	261.4	265.6	312.9	369.0	375.6	322.4	268.4	240.4	235.8
67.5°	1467.5	897.8	225.0	242.8	282.4	330.4	349.7	307.0	254.1	227.4	223.2
70°	836.4	509.9	194.1	220.8	255.5	294.7	329.7	294.7	238.6	216.6	213.8
72.5°	317.1	234.1	167.8	198.7	229.5	264.6	307.7	275.4	220.8	204.3	201.5
75°	169.2	142.6	141.2	172.8	199.7	235.1	280.0	256.5	207.4	215.9	222.9
77.5°	115.3	100.9	118.1	147.9	167.1	202.5	250.5	227.8	179.8	179.1	165.0
80°	79.9	71.5	96.0	119.1	129.3	170.3	218.7	195.5	146.5	136.7	130.7
82.5°	48.0	46.6	71.8	89.0	91.5	131.4	181.2	164.0	119.8	104.4	105.1
85°	26.3	27.7	45.9	52.2	53.3	91.8	141.9	126.8	92.2	77.4	78.1
87.5°	7.4	9.5	16.8	20.7	25.6	47.7	84.4	75.3	46.3	32.2	32.2
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)