

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: P882457

Luminaire Tested: **NVN-SB2B-830-U-T2**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882457  
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-SB2B-830-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

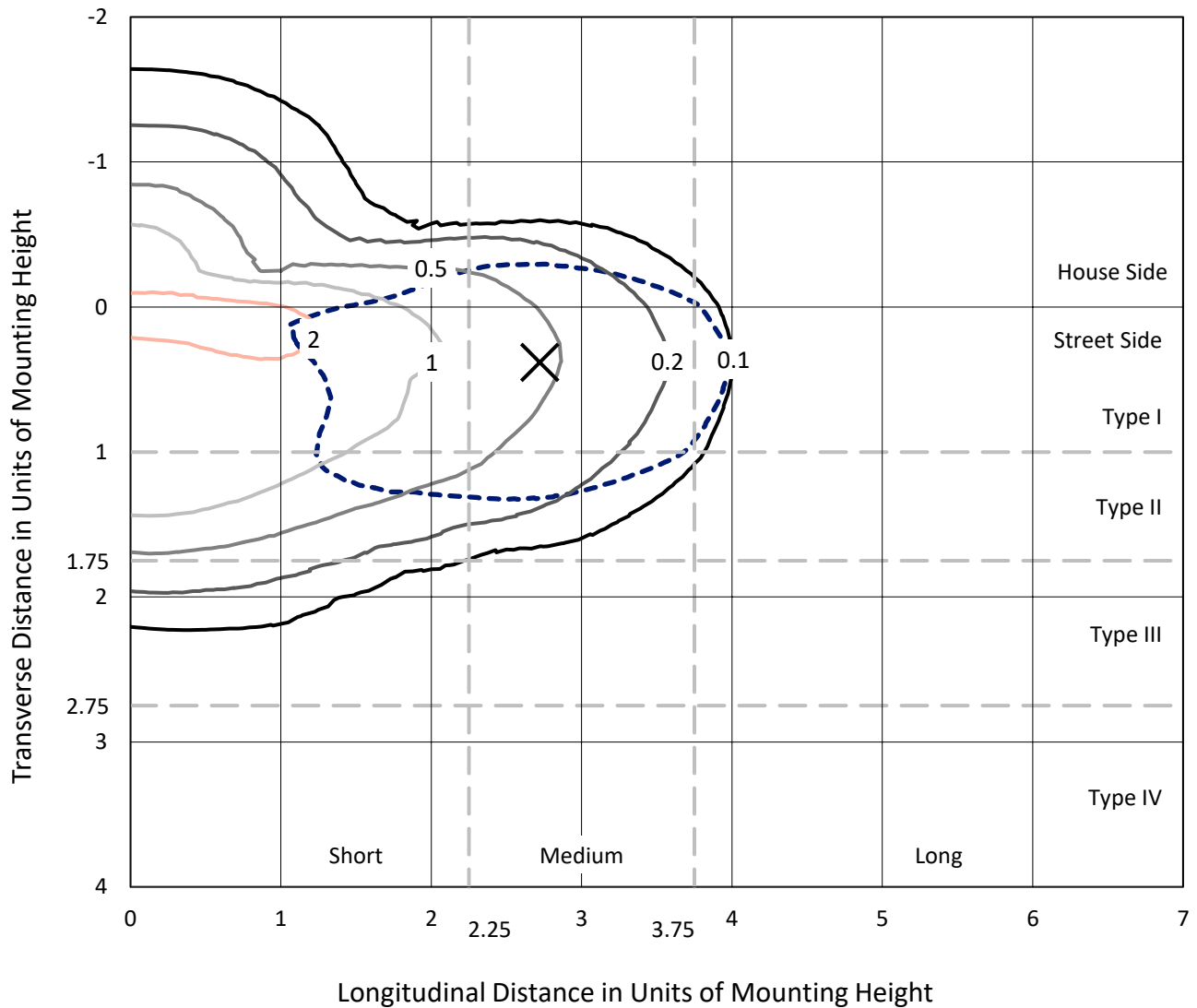
Lumens per Lamp: N/A  
Luminaire Lumens: 9950 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.627  
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



REPORT NUMBER: P882457  
 CATALOG NUMBER: NVN-SB2B-830-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

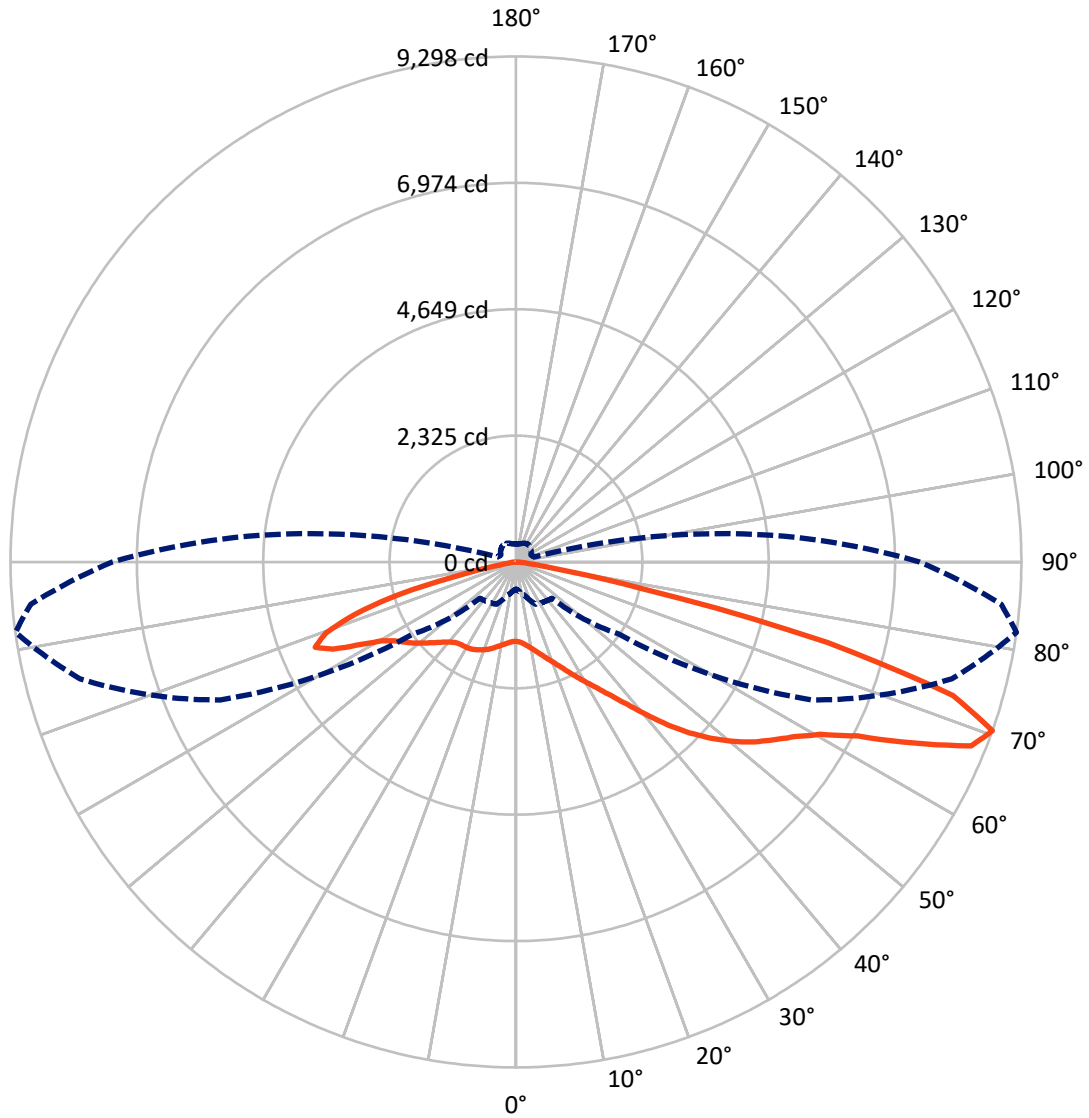
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Medium - N/A

REPORT NUMBER: P882457  
CATALOG NUMBER: NVN-SB2B-830-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P882457  
 CATALOG NUMBER: NVN-SB2B-830-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2452.9	0.0	2452.9
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	7497.1	0.0	7497.1
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	9950.0	0.0	9950.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.7	1.4
10°-20°	395.7	4.0
20°-30°	662.0	6.7
30°-40°	1034.2	10.4
40°-50°	1647.1	16.6
50°-60°	2292.2	23.0
60°-70°	2397.7	24.1
70°-80°	1253.2	12.6
80°-90°	130.1	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°	9950.0	100.0
0°-180°	9950.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P882457

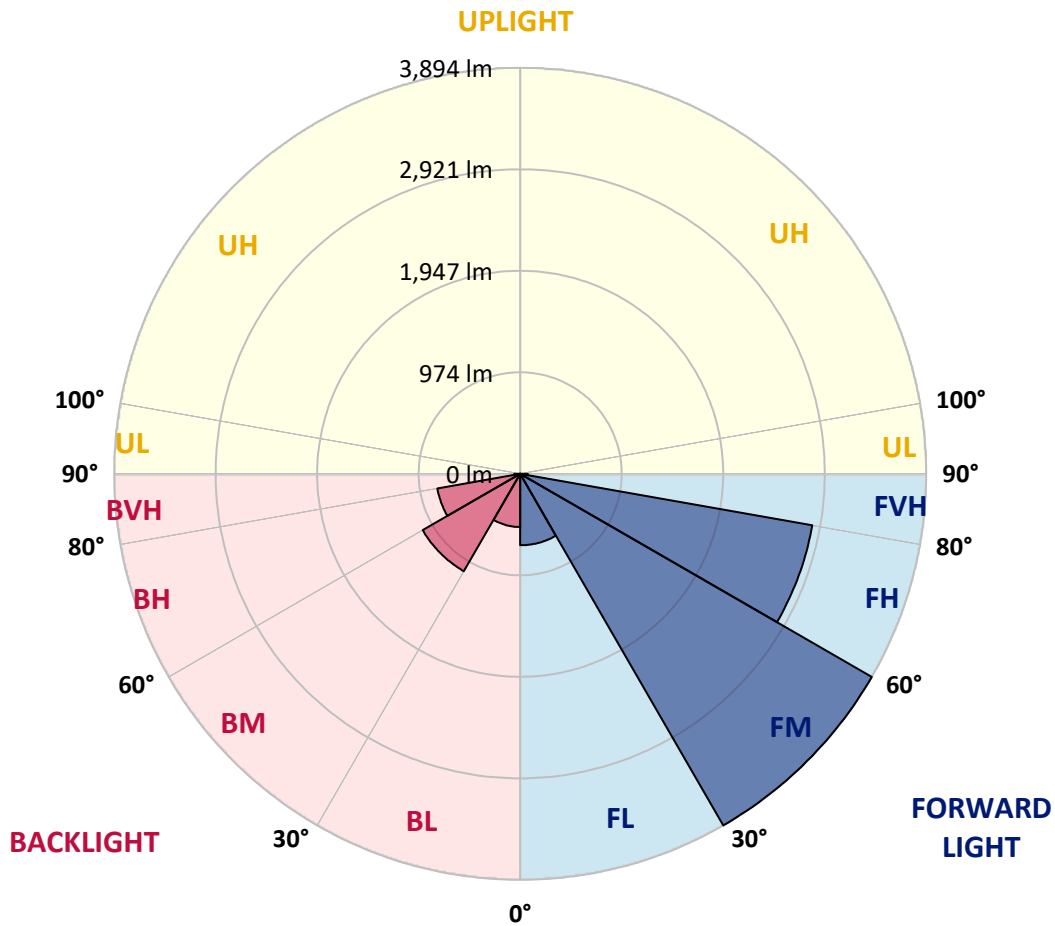
CATALOG NUMBER: NVN-SB2B-830-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.2	6.9			
FM (30°-60°)	3894.3	39.1			
FH (60°-80°)	2844.7	28.6			G2/5000
FVH (80°-90°)	72.8	0.7			G1/100
BL (0°-30°)	510.3	5.1	B2/1000		
BM (30°-60°)	1079.2	10.8	B2/2500		
BH (60°-80°)	806.1	8.1	B2/1000		G2/1000
BVH (80°-90°)	57.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



REPORT NUMBER: P882457

CATALOG NUMBER: NVN-SB2B-830-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1458.8	1458.8	1458.8	1458.8	1458.8	1458.8	1458.8	1458.8	1458.8	1458.8	1458.8
2.5°	1493.6	1502.1	1499.4	1496.8	1496.8	1493.1	1492.6	1487.3	1483.1	1476.2	1474.6
5°	1512.6	1521.6	1520.6	1522.7	1529.5	1531.1	1532.7	1529.5	1521.1	1512.6	1509.0
7.5°	1495.8	1505.8	1509.0	1521.6	1542.7	1561.7	1576.0	1581.8	1573.9	1561.7	1555.9
10°	1438.7	1449.8	1460.9	1491.0	1528.5	1573.4	1611.4	1634.1	1632.5	1620.9	1610.9
12.5°	1323.1	1334.7	1358.5	1417.1	1485.7	1564.9	1635.7	1683.2	1699.6	1691.1	1673.7
15°	1230.7	1240.7	1258.7	1318.9	1408.1	1528.5	1644.6	1737.0	1778.7	1774.0	1752.9
17.5°	1228.1	1232.3	1243.4	1271.9	1340.5	1471.5	1635.1	1789.8	1869.6	1869.0	1842.6
20°	1274.5	1276.1	1282.5	1288.3	1327.3	1428.2	1610.9	1833.7	1971.5	1971.5	1942.9
22.5°	1338.9	1337.9	1344.2	1338.9	1358.0	1424.5	1595.5	1872.2	2085.0	2093.4	2057.5
25°	1435.6	1430.3	1428.7	1416.6	1420.3	1458.8	1612.4	1916.0	2219.6	2237.0	2192.2
27.5°	1564.4	1555.9	1550.1	1522.2	1512.6	1529.5	1664.2	1968.8	2369.6	2399.6	2342.6
30°	1732.3	1717.0	1708.5	1660.0	1625.6	1628.3	1742.3	2039.0	2526.4	2574.9	2502.6
32.5°	1961.4	1937.7	1915.0	1835.2	1772.4	1751.8	1843.2	2136.2	2696.4	2774.0	2681.1
35°	2218.0	2199.0	2174.7	2051.7	1955.1	1907.6	1979.4	2271.9	2895.4	3018.4	2897.5
37.5°	2465.1	2448.7	2460.4	2294.6	2170.0	2100.8	2157.8	2454.0	3140.9	3322.5	3168.9
40°	2720.7	2708.0	2709.6	2551.2	2406.0	2328.4	2374.3	2682.6	3422.3	3684.2	3495.2
42.5°	2998.4	2988.9	2957.2	2816.7	2653.6	2581.3	2623.5	2946.6	3724.3	4096.0	3853.2
45°	3309.3	3303.5	3274.0	3112.9	2926.0	2844.7	2901.7	3238.1	4027.9	4483.6	4212.7
47.5°	3578.1	3582.8	3579.1	3443.5	3249.7	3130.4	3198.5	3542.2	4310.4	4847.9	4557.5
50°	3707.4	3732.3	3768.7	3726.4	3606.1	3484.6	3497.8	3835.7	4579.7	5189.5	4888.0
52.5°	3639.9	3686.8	3786.1	3853.7	3900.1	3874.8	3839.4	4127.2	4833.1	5497.8	5200.6
55°	3388.0	3454.0	3618.7	3781.9	4018.9	4203.2	4249.7	4450.3	5080.2	5769.2	5496.2
57.5°	2929.2	3036.4	3184.2	3514.2	3913.3	4362.1	4728.0	4898.6	5342.0	6059.0	5805.6
60°	2142.5	2286.1	2469.9	2960.9	3543.8	4277.1	5135.1	5587.0	5714.3	6434.4	6208.5
62.5°	1371.2	1459.9	1628.8	2091.3	2761.3	3841.5	5259.7	6447.6	6345.2	7050.0	6812.5
65°	938.7	995.8	1150.5	1410.2	1785.1	2859.5	4926.0	7092.8	7347.3	8025.7	7845.2
67.5°	682.1	725.4	857.4	1085.0	1163.1	1692.2	3822.5	7063.2	8321.4	9031.0	8750.1
70°	497.4	528.0	638.8	857.4	894.9	941.4	2315.7	6004.1	8300.3	9298.2	8961.8
72.5°	368.5	389.6	464.1	665.2	724.4	635.7	1146.2	4363.7	7132.4	8410.1	8140.3
75°	266.6	282.5	337.4	509.0	579.7	484.2	571.8	2550.1	4975.1	5916.0	5963.5
77.5°	203.8	215.9	251.8	372.8	464.1	363.2	354.8	1173.2	2359.0	2370.6	2503.7
80°	163.7	171.6	191.1	262.4	355.9	271.9	231.3	473.6	745.5	630.9	662.1
82.5°	120.4	133.6	161.6	184.3	254.5	187.4	141.0	239.2	283.5	243.9	246.0
85°	68.6	77.6	97.7	132.0	162.6	114.6	80.8	106.1	132.0	108.2	96.6
87.5°	24.3	31.7	34.3	51.7	70.7	47.5	31.2	30.6	43.3	32.2	26.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P882457  
 CATALOG NUMBER: NVN-SB2B-830-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1458.8	1458.8	1458.8	1458.8	1458.8	1458.8	1458.8	1458.8	1458.8	1458.8	1458.8
2.5°	1469.4	1466.7	1456.2	1441.9	1427.1	1412.9	1408.1	1398.1	1391.2	1387.5	1391.7
5°	1498.9	1490.5	1465.7	1434.0	1400.7	1364.8	1339.5	1316.2	1299.3	1283.5	1289.8
7.5°	1541.2	1526.4	1483.6	1428.2	1369.0	1309.4	1265.0	1231.2	1208.5	1193.8	1196.9
10°	1590.3	1567.6	1502.1	1419.2	1327.9	1242.3	1190.1	1161.0	1146.8	1138.8	1141.0
12.5°	1646.8	1614.5	1521.1	1398.6	1265.0	1167.4	1131.5	1123.0	1123.5	1124.1	1125.1
15°	1716.4	1671.6	1536.4	1353.7	1183.2	1109.8	1103.5	1117.2	1131.5	1138.3	1137.8
17.5°	1795.1	1731.8	1539.0	1279.8	1102.9	1072.8	1092.9	1122.5	1144.1	1153.6	1155.7
20°	1879.6	1793.0	1520.0	1175.3	1036.9	1042.8	1078.7	1116.7	1140.4	1152.6	1155.7
22.5°	1976.2	1858.5	1474.6	1065.5	983.1	1010.0	1052.3	1089.2	1114.0	1126.2	1129.3
25°	2086.6	1931.9	1403.4	973.1	936.6	973.1	1015.3	1045.9	1066.0	1077.1	1080.2
27.5°	2209.0	2008.4	1308.3	899.7	896.0	935.0	969.9	993.6	1004.2	1012.7	1015.8
30°	2332.1	2078.1	1193.2	844.2	860.6	897.6	922.4	932.9	936.1	937.7	941.4
32.5°	2465.1	2138.3	1072.3	798.3	826.8	861.1	875.9	880.7	865.9	855.8	859.0
35°	2626.1	2202.7	954.1	761.9	793.5	823.1	827.9	823.6	806.2	785.6	786.7
37.5°	2825.2	2283.0	859.5	736.0	762.4	781.9	776.1	775.1	776.7	752.4	753.9
40°	3069.1	2387.5	790.4	715.9	737.1	741.3	724.9	733.9	741.8	704.8	705.9
42.5°	3340.0	2513.7	746.6	702.2	715.9	705.9	680.6	690.6	689.5	641.0	640.4
45°	3616.1	2651.0	731.2	692.2	696.4	676.3	648.4	651.0	628.8	585.0	586.6
47.5°	3890.6	2798.3	740.7	683.7	672.1	649.4	627.8	616.1	583.4	550.7	550.7
50°	4159.9	2953.0	775.6	666.8	638.8	625.7	609.8	589.2	554.4	526.4	524.3
52.5°	4409.6	3108.7	814.7	638.8	597.1	605.1	595.0	571.3	537.0	508.4	509.0
55°	4646.2	3264.5	830.0	600.3	558.1	587.1	581.3	537.5	496.3	473.1	471.0
57.5°	4903.8	3451.9	813.1	551.2	526.4	566.5	544.3	495.8	472.0	454.6	453.0
60°	5260.7	3746.0	776.7	490.5	496.3	535.9	497.9	477.8	451.9	432.4	431.4
62.5°	5853.7	4294.5	718.0	430.3	460.9	490.5	475.7	455.6	429.2	410.2	410.2
65°	6730.1	5056.9	607.7	383.3	421.3	446.1	451.9	431.9	404.4	384.4	385.4
67.5°	7469.3	5535.3	459.9	344.2	380.7	410.2	426.6	407.1	378.0	358.5	359.0
70°	7428.6	5187.9	351.1	305.7	344.8	374.9	396.0	380.7	349.5	331.0	332.6
72.5°	6598.1	4340.0	284.1	266.6	308.3	337.9	363.2	351.6	320.0	302.0	302.0
75°	4847.3	3080.7	227.0	227.0	262.9	299.4	327.3	320.0	290.9	278.2	274.5
77.5°	2043.3	1292.5	177.9	188.5	218.6	257.1	292.0	294.6	269.3	285.1	258.7
80°	543.3	356.4	135.7	148.4	171.6	212.2	254.0	252.9	225.4	210.7	195.9
82.5°	207.0	140.4	96.6	104.5	124.1	162.6	201.2	207.5	180.0	155.8	155.8
85°	79.7	60.2	59.7	62.8	72.3	107.7	152.1	157.3	135.7	115.1	118.8
87.5°	20.6	18.0	22.2	21.1	33.3	57.5	87.1	90.3	82.9	48.0	68.6
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)