

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: P962593

Luminaire Tested: **NVN-SB2C-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2C-827-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10107.5 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

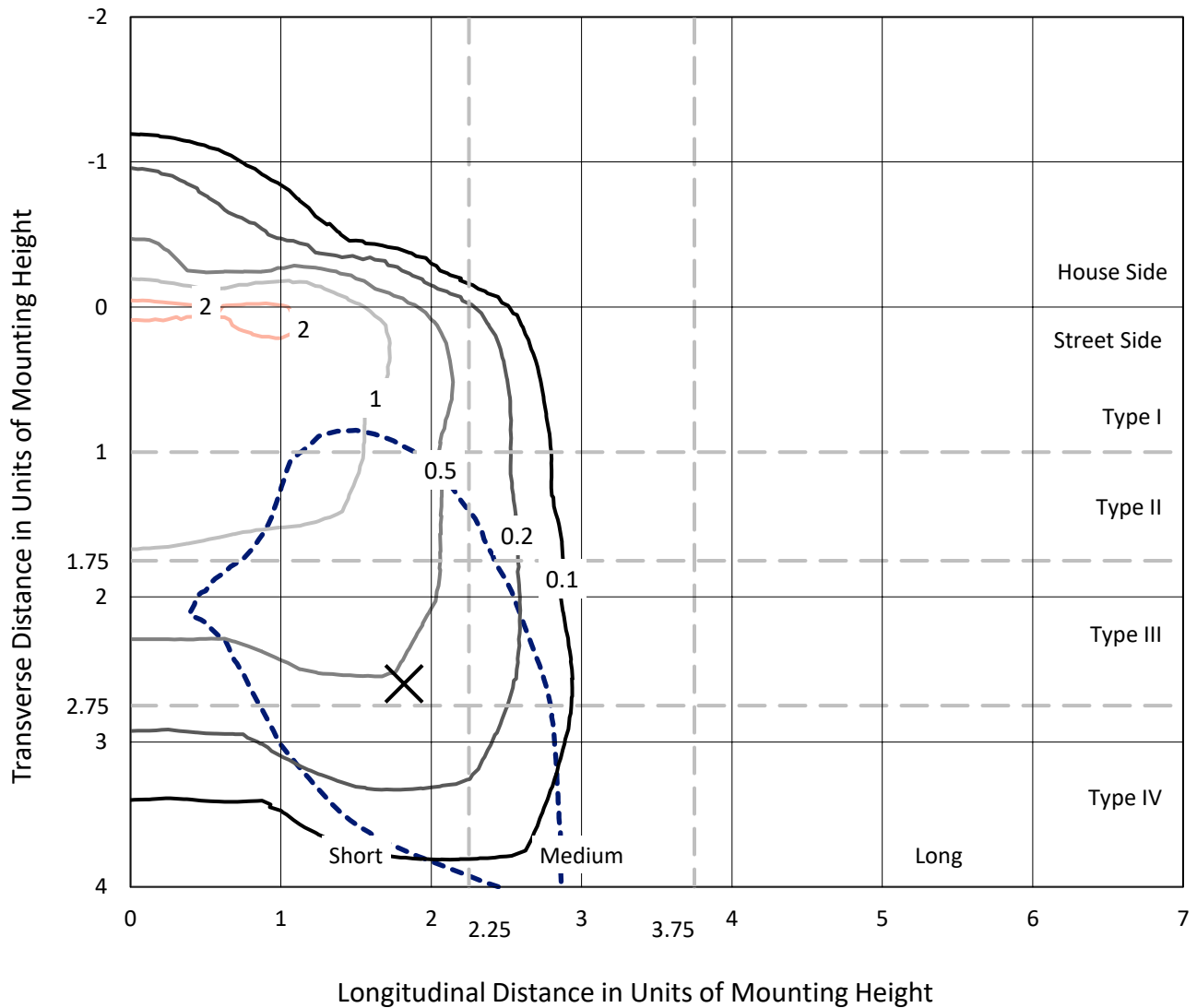
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P962593
 CATALOG NUMBER: NVN-SB2C-827-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

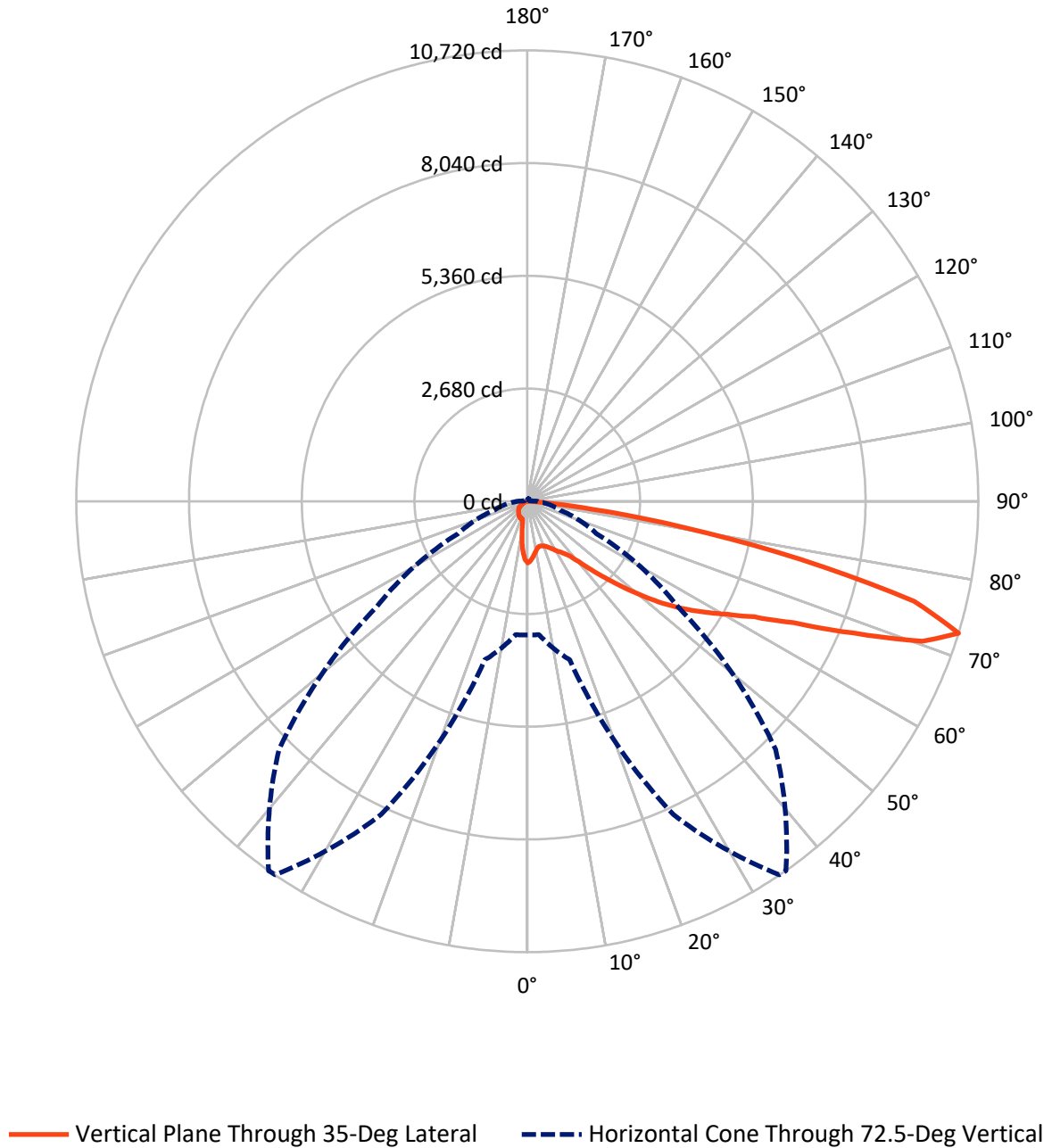
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P962593
CATALOG NUMBER: NVN-SB2C-827-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P962593
 CATALOG NUMBER: NVN-SB2C-827-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1137.5	0.0	1137.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	8970.0	0.0	8970.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	10107.5	0.0	10107.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	1.2
10°-20°	281.6	2.8
20°-30°	457.5	4.5
30°-40°	763.3	7.6
40°-50°	1444.1	14.3
50°-60°	2294.7	22.7
60°-70°	2838.7	28.1
70°-80°	1764.6	17.5
80°-90°	142.6	1.4
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°	10107.5	100.0
0°-180°	10107.5	100.0

Coefficient of Utilization



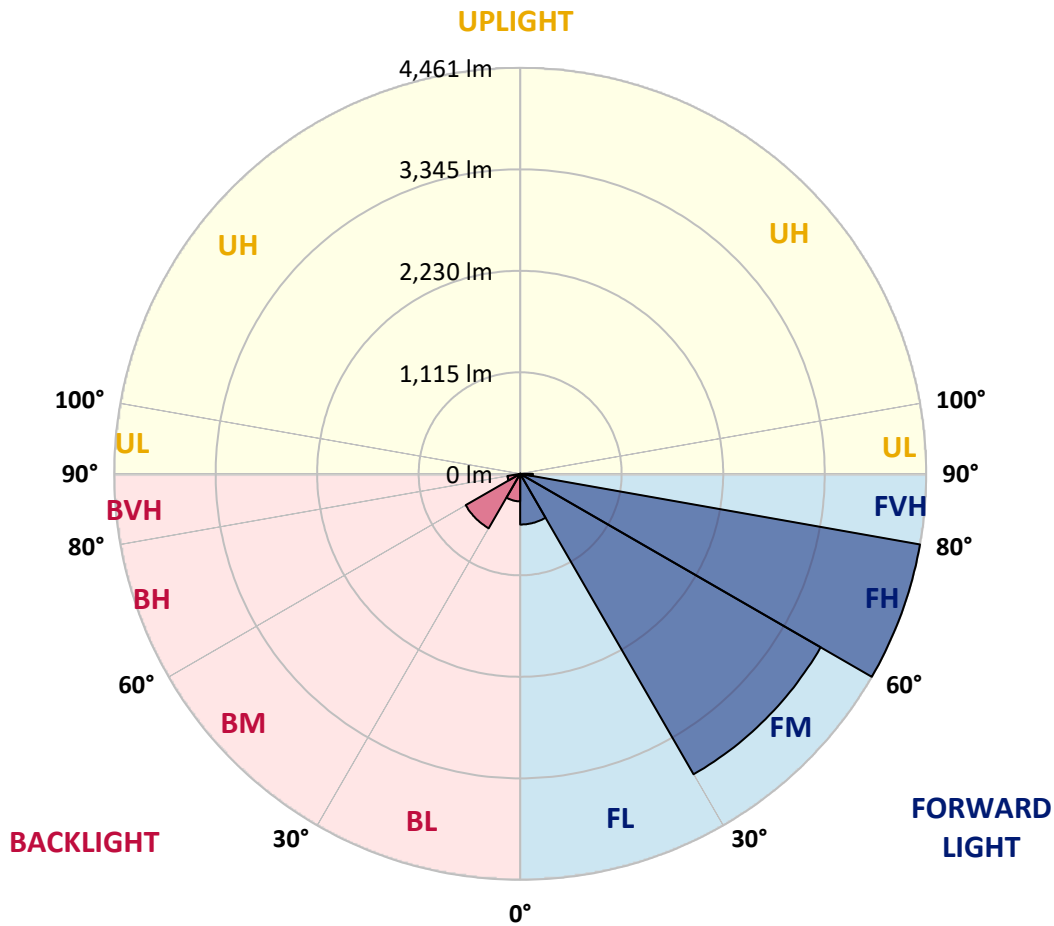
REPORT NUMBER: P962593
 CATALOG NUMBER: NVN-SB2C-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.2	5.5			
FM (30°-60°)	3811.5	37.7			
FH (60°-80°)	4460.6	44.1			G2/5000
FVH (80°-90°)	140.7	1.4			G2/225
BL (0°-30°)	302.3	3.0	B1/500		
BM (30°-60°)	690.6	6.8	B1/1000		
BH (60°-80°)	142.7	1.4	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
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



REPORT NUMBER: P962593
 CATALOG NUMBER: NVN-SB2C-827-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9
2.5°	1399.7	1411.6	1413.8	1417.5	1417.5	1422.0	1429.4	1439.7	1456.7	1465.6	1471.6
5°	1290.2	1299.0	1310.2	1319.0	1336.1	1338.2	1367.1	1395.3	1434.6	1464.2	1484.9
7.5°	1179.8	1190.1	1205.0	1226.4	1248.7	1255.3	1299.0	1346.4	1408.7	1464.2	1499.0
10°	1102.0	1102.8	1116.1	1137.5	1173.1	1181.3	1234.6	1302.0	1379.8	1455.3	1512.3
12.5°	1058.3	1063.5	1069.5	1085.7	1119.8	1124.9	1182.0	1261.3	1350.8	1450.1	1527.9
15°	1058.3	1062.0	1065.7	1073.9	1101.3	1105.8	1156.1	1235.3	1336.1	1452.3	1553.1
17.5°	1069.5	1075.3	1072.4	1082.0	1110.9	1113.9	1158.4	1227.9	1335.3	1466.4	1591.5
20°	1096.1	1100.5	1094.6	1100.5	1129.4	1135.4	1181.3	1242.0	1347.9	1490.9	1639.7
22.5°	1138.3	1140.5	1126.5	1130.9	1160.5	1167.9	1221.3	1282.0	1378.3	1530.1	1704.2
25°	1191.7	1196.1	1174.6	1179.8	1208.0	1216.8	1278.3	1341.9	1426.4	1584.1	1786.4
27.5°	1253.1	1255.3	1236.8	1236.0	1272.3	1284.9	1347.2	1416.0	1490.9	1652.3	1890.0
30°	1323.5	1330.1	1312.3	1309.4	1355.4	1365.7	1427.1	1507.2	1585.7	1754.5	2037.4
32.5°	1379.0	1384.2	1373.8	1381.2	1427.9	1436.0	1524.2	1636.0	1734.5	1899.6	2238.1
35°	1459.0	1462.0	1438.3	1451.6	1504.9	1525.6	1656.7	1816.7	1921.9	2081.9	2500.3
37.5°	1748.5	1748.5	1647.9	1582.0	1633.0	1651.6	1838.2	2044.1	2152.9	2326.2	2830.6
40°	2149.2	2142.6	1995.2	1860.4	1853.7	1890.0	2096.6	2330.6	2451.4	2619.5	3202.4
42.5°	2576.5	2566.2	2365.5	2232.1	2210.0	2222.6	2395.1	2684.0	2806.9	2977.2	3602.3
45°	2955.8	2952.8	2769.1	2589.9	2549.9	2589.9	2767.6	3097.2	3185.4	3364.6	4001.5
47.5°	3273.4	3273.4	3139.5	3022.4	3001.7	3025.4	3272.0	3555.6	3547.5	3777.1	4390.3
50°	3639.4	3636.4	3509.0	3458.7	3480.1	3513.4	3852.7	4038.5	3922.3	4182.2	4737.7
52.5°	3895.6	3913.3	3869.7	3861.5	3971.2	4028.9	4442.1	4511.0	4257.7	4566.6	4997.6
55°	4098.6	4119.3	4169.6	4226.7	4437.7	4513.3	5013.2	4959.1	4538.4	4899.8	5147.2
57.5°	4385.9	4356.2	4434.0	4546.6	4888.0	4979.1	5566.4	5382.0	4764.3	5170.2	5163.5
60°	4734.7	4739.2	4752.5	4894.7	5337.6	5454.5	6111.5	5781.9	4909.4	5336.0	4982.8
62.5°	5153.9	5160.6	5187.9	5406.5	5941.1	6051.5	6692.1	6109.3	4976.2	5289.4	4516.3
65°	5125.0	5153.2	5459.0	6206.3	6858.8	6967.6	7369.7	6338.8	4875.4	4862.8	3677.1
67.5°	4668.8	4714.7	5226.5	7161.7	8242.2	8363.7	8188.9	6384.0	4440.7	3781.5	2398.8
70°	4070.4	4086.7	4702.1	8020.7	9844.1	9967.1	8922.1	5887.1	3369.8	2109.2	1074.6
72.5°	3178.7	3182.4	3904.4	8220.0	10713.6	10720.3	8346.7	4370.3	1812.3	810.3	373.3
75°	2270.7	2248.4	2615.1	6666.2	9425.7	9501.2	6257.4	2050.0	692.5	382.9	185.9
77.5°	1217.6	1242.0	1479.7	3953.3	6511.4	6640.3	3414.2	591.0	352.5	260.7	122.9
80°	376.3	397.0	606.6	1810.0	3688.3	3766.0	1265.7	262.9	245.9	185.9	80.8
82.5°	118.5	122.9	282.9	760.7	1530.8	1566.4	366.6	148.8	168.1	122.9	47.4
85°	34.0	34.8	125.9	283.6	378.4	385.8	102.9	57.8	96.2	76.3	24.4
87.5°	3.7	11.9	47.4	47.4	33.3	32.6	11.1	12.6	27.4	9.6	4.4
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: P962593
 CATALOG NUMBER: NVN-SB2C-827-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9
2.5°	1467.9	1468.6	1459.0	1442.7	1425.0	1410.1	1391.6	1376.8	1366.4	1363.5	1368.7
5°	1478.3	1473.0	1445.7	1396.0	1336.8	1285.7	1228.7	1183.5	1153.8	1141.2	1145.7
7.5°	1493.8	1479.0	1419.0	1321.2	1208.0	1107.2	1005.0	925.8	875.4	850.2	853.9
10°	1507.2	1477.5	1374.5	1213.1	1039.8	887.2	749.5	653.9	600.6	575.4	576.2
12.5°	1519.8	1476.8	1316.8	1085.0	850.2	663.6	535.5	488.1	473.2	468.0	466.6
15°	1543.4	1479.0	1244.2	938.4	661.3	501.4	454.7	454.0	456.9	455.5	454.7
17.5°	1576.0	1481.2	1162.0	782.8	510.2	442.2	439.9	446.6	451.0	448.8	448.0
20°	1618.3	1490.1	1074.6	628.7	438.4	427.3	432.6	438.4	442.2	438.4	437.7
22.5°	1677.5	1505.6	979.1	505.1	415.4	418.4	422.9	429.6	433.3	428.0	427.3
25°	1750.1	1530.1	885.0	439.2	404.4	408.1	414.7	422.1	426.6	421.4	420.7
27.5°	1844.1	1569.4	798.4	424.4	393.3	395.4	405.1	416.3	422.1	415.4	415.4
30°	1980.4	1633.7	723.5	431.0	386.6	381.4	394.7	410.3	417.0	411.0	410.3
32.5°	2161.1	1724.9	677.6	441.4	383.7	365.1	377.7	397.7	408.8	405.1	405.1
35°	2398.1	1863.3	659.9	453.3	381.4	348.1	357.0	378.4	397.7	401.4	401.4
37.5°	2685.4	2055.9	665.0	458.5	374.7	334.0	338.5	357.0	382.1	394.0	397.0
40°	3012.1	2280.3	694.6	453.3	367.4	322.2	322.9	337.0	359.2	377.0	382.9
42.5°	3349.0	2542.5	749.5	434.0	360.7	311.8	309.5	319.2	334.0	346.6	351.8
45°	3669.7	2812.1	803.6	407.3	352.5	301.5	296.2	299.9	302.9	308.1	311.1
47.5°	3949.6	3001.7	788.0	382.9	341.4	289.6	280.6	279.2	270.3	269.6	268.9
50°	4142.9	3043.1	699.9	358.4	325.1	276.2	262.2	253.3	237.7	230.3	231.0
52.5°	4204.4	2879.4	571.7	334.0	298.5	258.5	238.5	224.4	205.1	198.4	197.7
55°	4123.0	2558.8	456.9	304.4	261.5	234.7	212.6	194.0	178.5	170.4	170.4
57.5°	3923.7	2150.8	361.4	269.6	222.2	208.1	185.9	167.4	154.1	145.9	144.4
60°	3593.4	1707.9	285.9	228.1	189.6	179.3	156.3	144.4	132.5	122.9	120.7
62.5°	3092.0	1219.0	224.4	180.7	158.5	146.7	133.4	124.4	110.4	97.1	94.8
65°	2412.8	745.8	173.3	132.5	127.4	121.5	113.3	105.2	88.1	74.8	72.6
67.5°	1521.9	353.3	123.7	99.9	100.8	97.8	94.1	87.4	74.8	62.9	61.5
70°	670.2	171.1	81.5	76.3	74.8	74.8	77.8	75.5	63.7	52.6	50.3
72.5°	228.1	91.8	60.7	57.8	54.0	53.3	65.2	62.9	51.1	40.7	38.5
75°	119.2	61.5	44.5	41.5	32.6	39.3	51.9	48.9	36.3	26.6	24.4
77.5°	77.8	43.7	30.3	26.6	18.6	25.9	38.5	34.0	21.5	13.3	11.9
80°	48.9	28.9	17.7	12.6	8.9	14.0	20.7	14.9	8.1	3.0	2.3
82.5°	25.9	14.9	6.7	4.4	3.7	4.4	5.2	3.7	1.4	0.0	0.0
85°	10.4	5.2	2.3	1.4	0.7	0.0	1.4	0.7	0.0	0.0	0.0
87.5°	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)