

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: P963680

Luminaire Tested: **NVN-SB3A-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3A-830-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9548.9 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.7
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



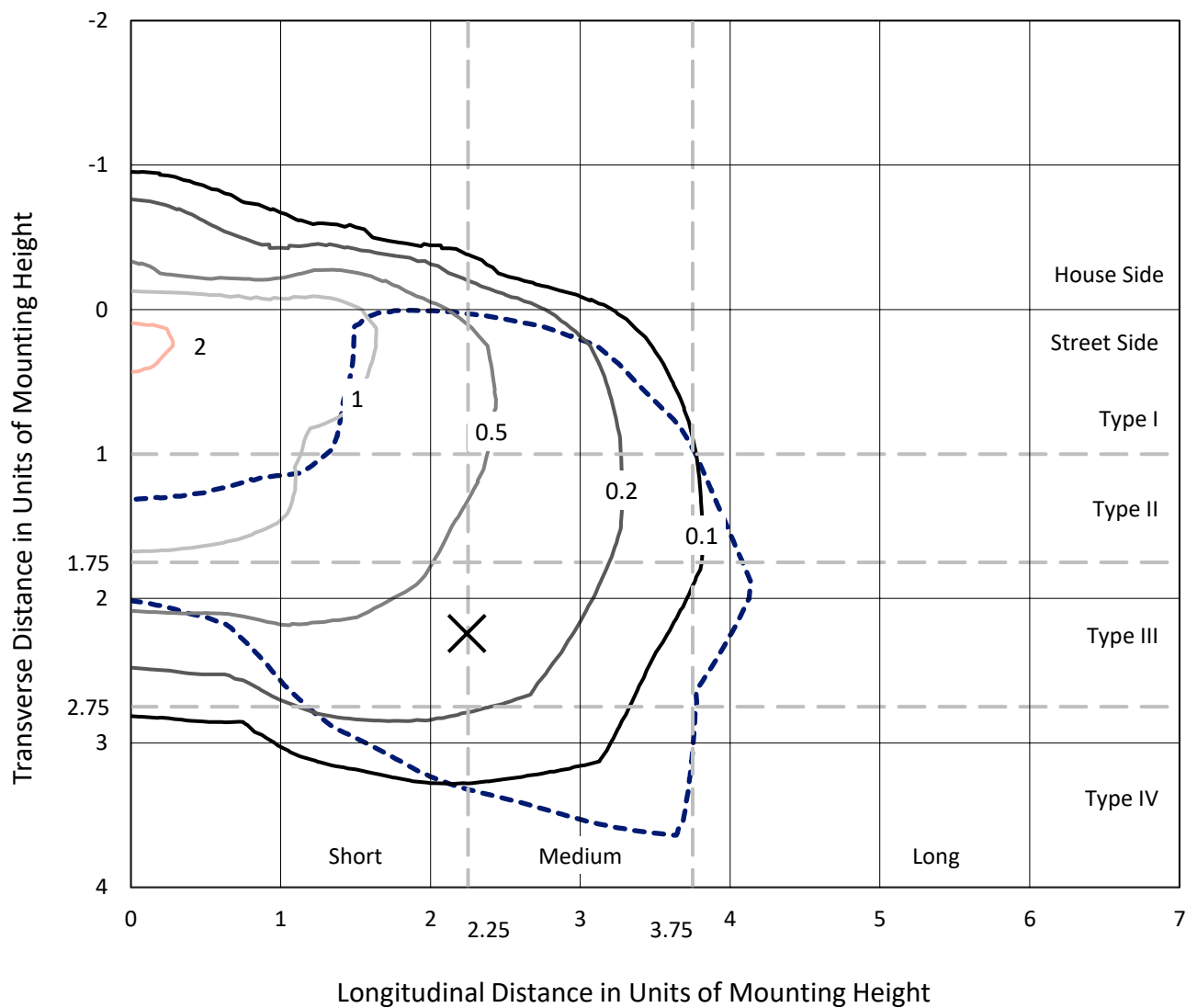
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Iso-Footcandle Lines of Horizontal Illumination

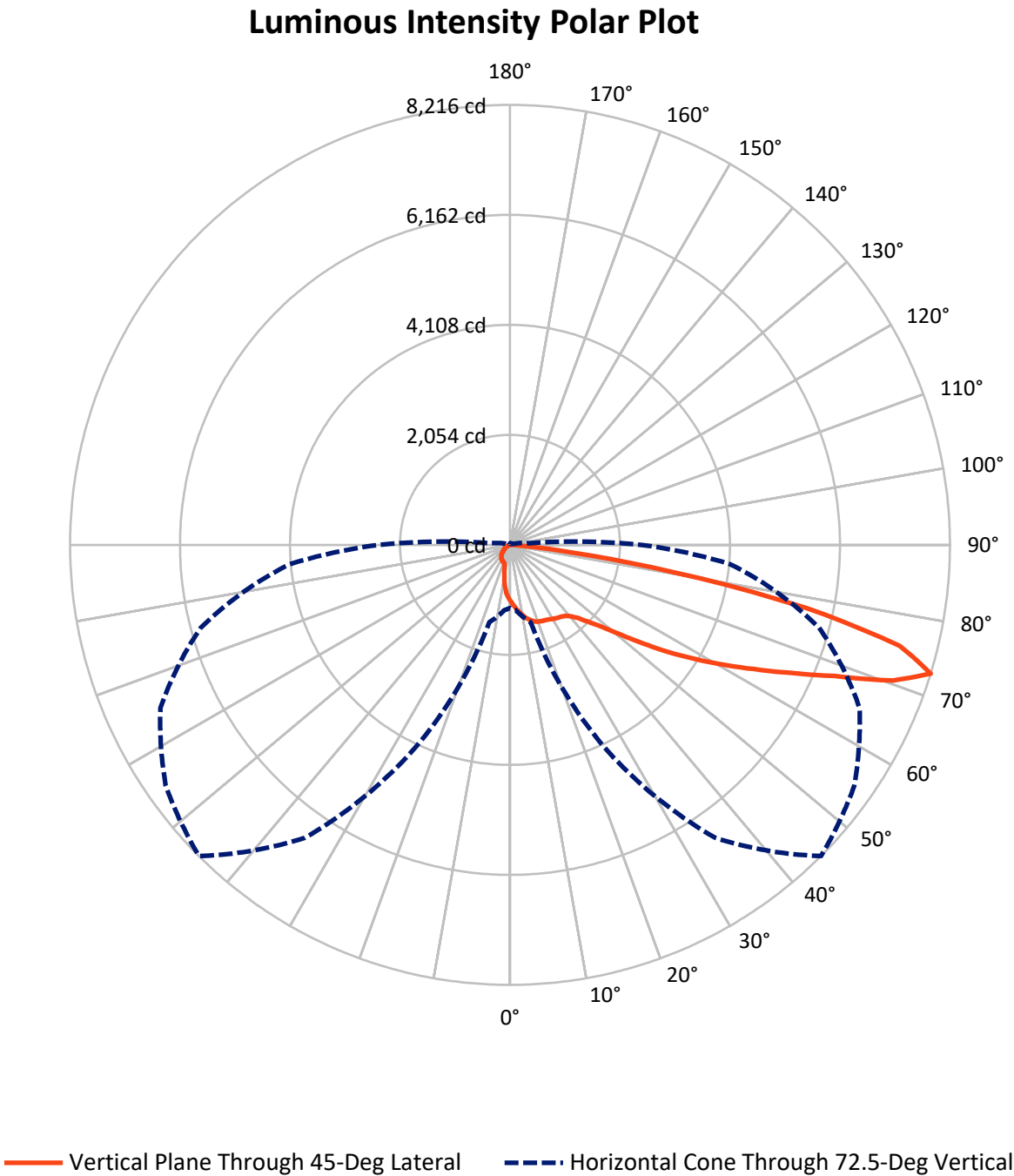
× Max cd

--- 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1003.3	0.0	1003.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	8545.6	0.0	8545.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	9548.9	0.0	9548.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	1.0
10°-20°	288.1	3.0
20°-30°	473.0	5.0
30°-40°	670.9	7.0
40°-50°	1108.9	11.6
50°-60°	1992.0	20.9
60°-70°	2766.0	29.0
70°-80°	2006.4	21.0
80°-90°	145.1	1.5
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°	9548.9	100.0
0°-180°	9548.9	100.0

Coefficient of Utilization



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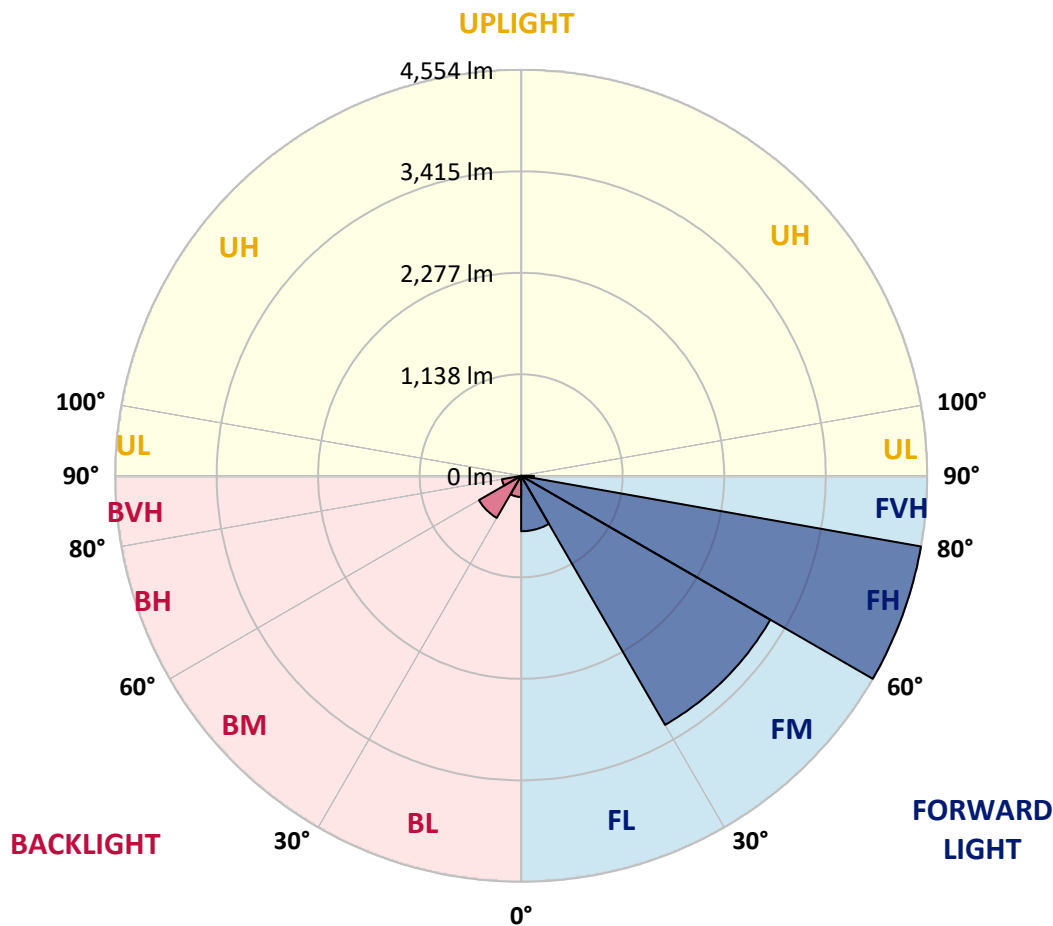
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	622.0	6.5			
FM	(30°-60°)	3226.1	33.8			
FH	(60°-80°)	4553.6	47.7			G2/5000
FVH	(80°-90°)	143.8	1.5			G2/225
BL	(0°-30°)	237.6	2.5	B1/500		
BM	(30°-60°)	545.7	5.7	B1/1000		
BH	(60°-80°)	218.8	2.3	B1/500		G1/500
BVH	(80°-90°)	1.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1
2.5°	1142.6	1144.5	1143.2	1135.4	1122.4	1115.2	1111.3	1098.3	1089.8	1074.8	1059.1
5°	1247.5	1255.3	1250.8	1235.1	1210.3	1192.8	1187.6	1160.8	1136.7	1108.6	1076.0
7.5°	1358.9	1362.8	1354.4	1334.1	1300.9	1271.0	1266.4	1229.3	1190.8	1147.8	1103.4
10°	1455.4	1460.0	1447.0	1417.6	1379.9	1342.6	1336.2	1295.1	1249.5	1196.7	1140.0
12.5°	1536.3	1540.8	1523.9	1488.7	1447.0	1408.5	1402.0	1358.9	1308.7	1250.1	1179.7
15°	1597.5	1606.0	1583.2	1545.4	1500.4	1462.0	1458.7	1416.3	1367.5	1302.3	1227.3
17.5°	1633.3	1641.8	1620.3	1574.7	1536.3	1503.7	1499.8	1464.5	1418.9	1356.4	1273.6
20°	1639.2	1647.1	1624.2	1584.4	1552.6	1526.4	1524.5	1499.1	1465.9	1405.9	1323.8
22.5°	1621.7	1631.4	1610.6	1578.6	1556.5	1542.7	1540.2	1525.8	1507.0	1456.1	1370.7
25°	1603.4	1611.2	1595.5	1567.5	1555.7	1554.5	1556.5	1553.8	1549.9	1507.0	1425.5
27.5°	1602.1	1610.6	1593.0	1566.2	1559.7	1573.4	1575.3	1587.7	1591.0	1553.2	1478.3
30°	1613.1	1619.0	1602.1	1574.1	1570.8	1602.1	1602.7	1624.8	1630.1	1592.3	1530.3
32.5°	1637.2	1643.8	1626.9	1585.8	1581.2	1624.8	1626.9	1656.2	1664.6	1634.1	1585.2
35°	1694.0	1701.8	1682.2	1618.4	1602.1	1646.4	1652.3	1686.8	1703.8	1678.3	1641.8
37.5°	1835.4	1812.6	1785.9	1684.2	1649.6	1680.3	1690.0	1730.5	1760.4	1731.1	1709.6
40°	2186.7	2115.0	2031.5	1796.3	1733.1	1752.6	1760.4	1800.8	1841.9	1813.2	1802.8
42.5°	2714.0	2629.2	2495.0	2054.4	1858.8	1868.7	1874.5	1909.7	1967.7	1944.9	1947.5
45°	3184.0	3153.3	3016.5	2495.0	2094.2	2045.9	2053.1	2071.3	2156.7	2148.3	2165.2
47.5°	3545.1	3527.4	3421.9	3000.8	2491.8	2263.0	2283.2	2291.7	2414.8	2444.8	2490.4
50°	3822.6	3816.2	3721.7	3450.5	3011.2	2583.0	2590.2	2571.9	2756.3	2830.6	2917.4
52.5°	4084.7	4106.9	4037.1	3868.2	3565.9	3002.1	3000.8	2914.8	3163.8	3275.8	3423.8
55°	4321.3	4329.1	4336.3	4294.5	4123.8	3479.2	3466.8	3326.0	3636.3	3752.3	3912.6
57.5°	4543.5	4546.8	4610.7	4696.0	4704.5	3991.5	3968.7	3799.9	4152.5	4235.2	4333.7
60°	4692.8	4707.8	4842.7	5079.9	5183.6	4520.0	4507.6	4335.6	4677.8	4716.2	4698.0
62.5°	4477.7	4568.9	4909.1	5379.8	5636.0	5106.0	5100.2	4938.6	5230.5	5199.2	5042.8
65°	3624.5	3779.0	4377.4	5582.5	6079.8	5760.4	5768.9	5596.8	5798.2	5696.5	5323.0
67.5°	2535.4	2698.3	3406.2	5598.8	6575.8	6528.8	6577.7	6307.8	6401.1	6173.0	5389.6
70°	1753.3	1837.3	2298.2	5248.1	6962.3	7587.4	7586.0	7181.3	7000.7	6390.1	5050.6
72.5°	1179.1	1222.7	1492.6	4163.5	6678.1	8216.3	8178.5	7848.7	7202.8	5976.2	4126.4
75°	497.3	529.2	690.8	2339.9	5283.3	7516.9	7414.6	6936.2	6399.8	4705.9	2574.5
77.5°	157.7	171.4	272.4	837.5	2910.2	5650.2	5542.1	4331.8	4289.3	2360.8	941.2
80°	74.9	87.3	153.1	336.3	1145.1	3073.2	3058.1	1965.1	1845.2	637.4	189.0
82.5°	32.6	38.4	84.8	179.9	512.3	1096.3	1118.5	668.7	553.4	241.8	58.0
85°	10.5	13.7	39.2	82.8	216.4	272.4	269.2	159.1	222.9	131.6	20.2
87.5°	0.0	0.0	13.0	18.9	22.1	15.7	17.6	13.7	61.9	36.5	7.2
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°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1
2.5°	1051.3	1040.9	1022.6	1005.7	990.7	975.7	966.6	953.6	952.2	952.2	955.5
5°	1058.5	1041.5	1008.9	974.4	934.7	896.9	859.1	822.6	810.8	802.4	806.3
7.5°	1079.3	1052.6	1001.1	935.3	859.7	776.9	718.9	656.3	632.2	619.2	621.2
10°	1109.4	1072.9	994.7	879.2	756.8	643.9	561.2	493.4	467.3	456.2	456.2
12.5°	1142.6	1097.6	982.9	809.5	643.9	509.0	428.2	397.0	393.0	393.0	393.0
15°	1182.3	1127.6	962.7	727.3	526.0	402.8	374.1	375.5	379.4	381.9	381.9
17.5°	1223.3	1159.5	930.7	635.5	421.7	362.3	363.1	365.0	368.3	370.8	370.8
20°	1267.7	1191.5	888.4	537.7	361.7	350.7	352.6	354.5	357.2	358.4	359.2
22.5°	1315.3	1221.4	838.1	441.9	341.5	340.9	341.5	343.5	346.8	346.8	348.1
25°	1366.1	1254.7	780.8	372.2	331.1	331.1	332.4	333.7	336.3	336.3	337.0
27.5°	1418.3	1285.4	720.2	335.7	322.0	321.3	321.3	323.3	324.6	325.2	325.8
30°	1475.6	1321.1	659.6	327.8	314.8	311.6	309.5	310.9	312.2	312.8	314.2
32.5°	1534.3	1355.7	605.5	331.1	307.6	301.8	295.3	294.0	294.0	296.5	298.5
35°	1599.4	1393.5	563.8	342.1	303.7	287.4	277.0	271.1	271.8	275.7	277.7
37.5°	1677.7	1439.1	533.1	352.0	301.1	271.1	254.2	247.0	242.4	247.0	245.7
40°	1780.0	1506.2	511.0	359.8	297.9	252.3	229.4	217.7	209.2	211.9	210.5
42.5°	1930.6	1611.8	502.6	360.4	290.7	230.1	204.0	188.4	176.0	176.6	174.0
45°	2141.7	1778.7	546.2	352.0	275.0	205.9	177.3	156.4	148.6	146.7	144.0
47.5°	2431.1	2021.8	647.2	334.4	252.3	182.4	151.2	133.7	127.7	124.5	122.5
50°	2819.0	2334.0	759.3	314.8	229.4	160.3	129.7	118.6	114.7	111.4	110.8
52.5°	3268.6	2650.8	851.3	295.3	206.6	140.8	116.0	109.5	106.2	103.6	103.0
55°	3681.3	2869.1	846.0	274.4	184.5	125.2	106.2	102.3	98.4	95.8	94.5
57.5°	3938.0	2899.7	697.4	251.5	159.1	112.7	97.1	94.5	90.0	86.7	86.0
60°	4056.0	2725.1	488.8	221.6	133.7	101.1	87.3	86.0	80.2	75.6	74.3
62.5°	4077.6	2400.4	325.8	184.5	111.4	90.0	77.6	75.6	67.8	60.0	56.1
65°	3990.2	1936.4	225.5	144.0	95.1	78.2	66.5	62.5	54.1	46.2	43.7
67.5°	3713.8	1359.6	157.0	103.6	80.8	61.9	52.8	51.5	45.0	38.4	36.5
70°	3207.4	775.0	105.0	77.6	63.9	42.3	41.7	43.0	36.5	31.3	28.7
72.5°	2459.2	354.5	65.2	56.7	43.7	28.7	33.2	33.9	28.0	23.5	20.8
75°	1447.6	151.9	41.1	36.5	22.1	18.9	24.1	24.8	18.9	15.0	13.0
77.5°	492.7	57.4	26.0	21.5	11.1	10.5	15.7	15.7	10.5	5.8	4.6
80°	112.1	21.5	13.0	8.5	5.2	4.6	5.2	4.6	2.6	0.6	0.0
82.5°	32.0	8.5	5.2	3.3	1.9	1.9	0.6	0.0	0.0	0.0	0.0
85°	9.1	3.9	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	0.6	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)