

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: P962589

Luminaire Tested: **NVN-SB2C-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2C-827-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10469.4 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

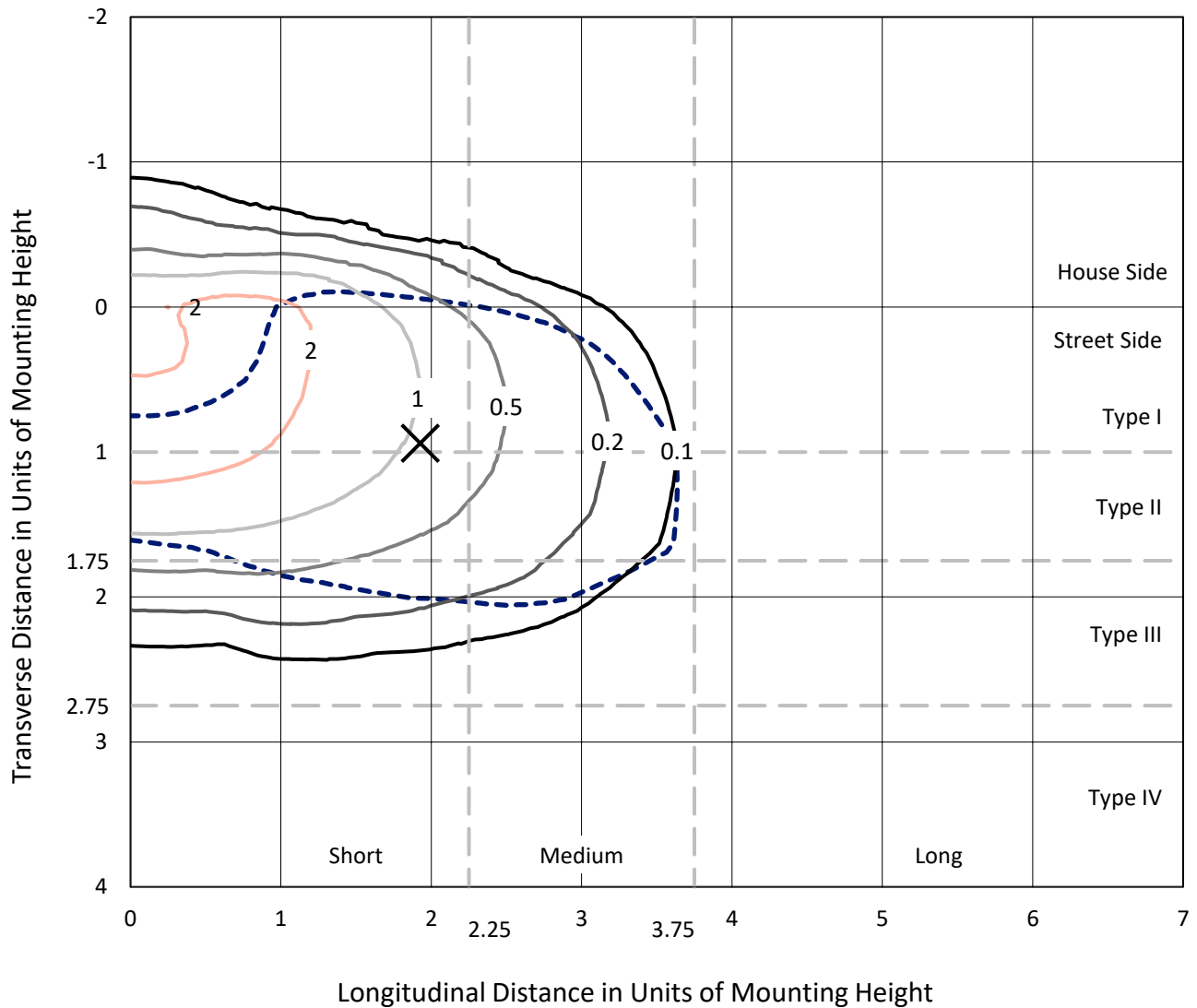
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

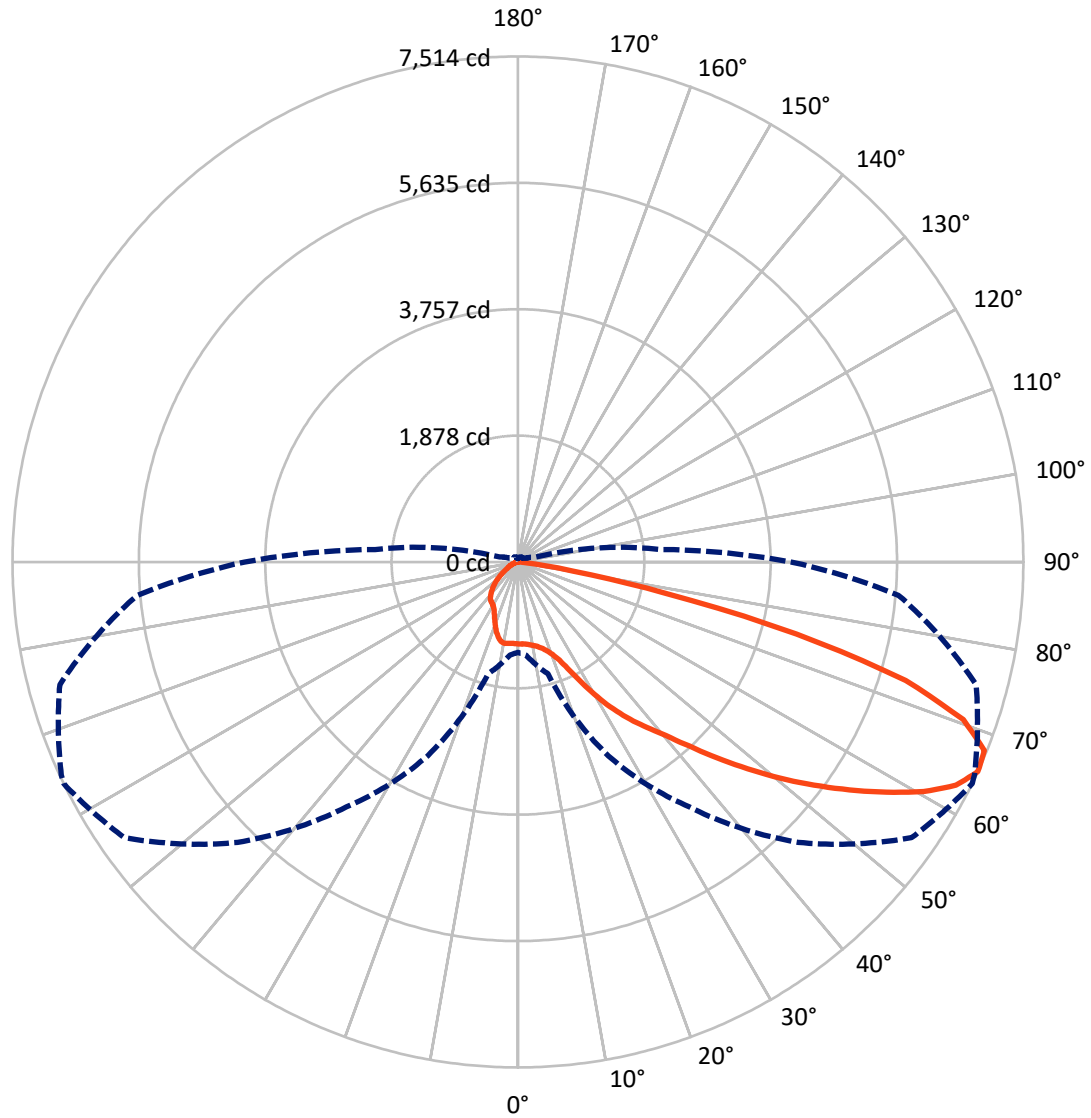
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1400.1	0.0	1400.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9069.3	0.0	9069.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	10469.4	0.0	10469.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	1.1
10°-20°	304.7	2.9
20°-30°	577.4	5.5
30°-40°	1168.4	11.2
40°-50°	1990.4	19.0
50°-60°	2706.7	25.9
60°-70°	2541.8	24.3
70°-80°	1018.3	9.7
80°-90°	49.3	0.5
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°	10469.4	100.0
0°-180°	10469.4	100.0

Coefficient of Utilization



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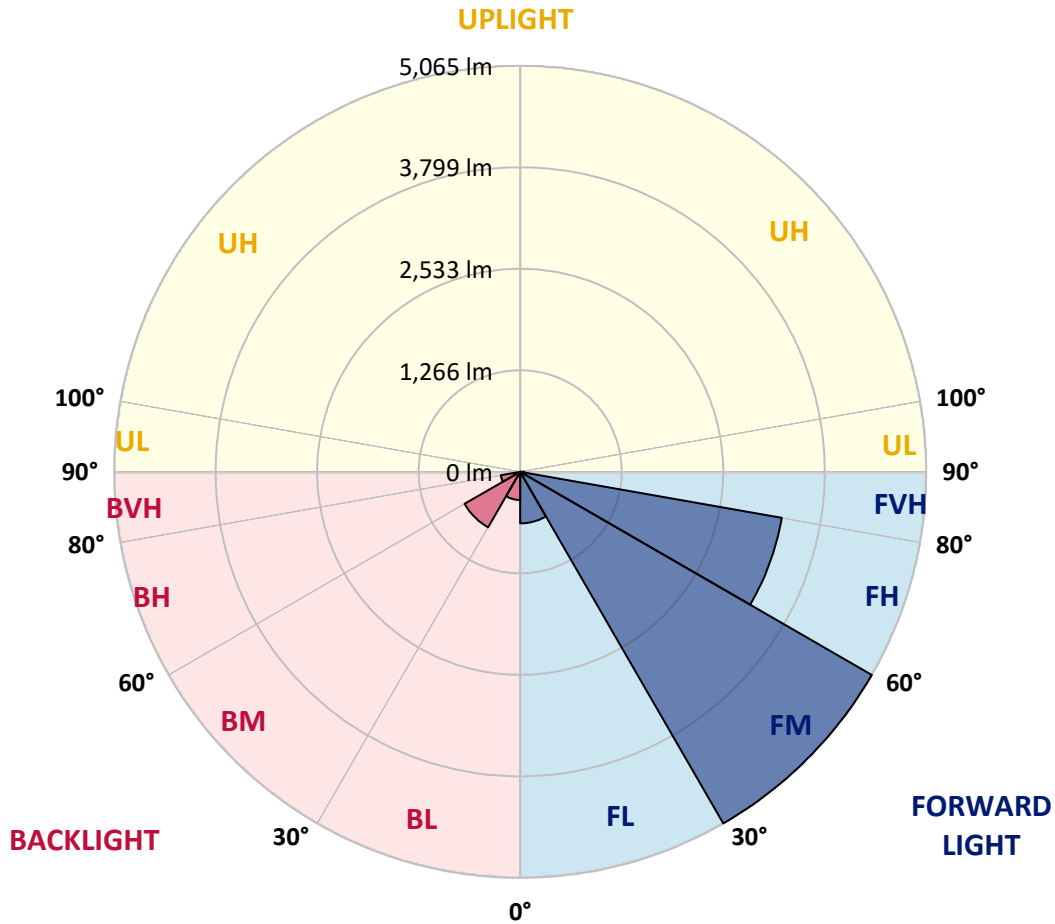
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	642.9	6.1			
FM (30°-60°)	5065.1	48.4			
FH (60°-80°)	3314.4	31.7			G2/5000
FVH (80°-90°)	46.9	0.4			G1/100
BL (0°-30°)	351.5	3.4	B1/500		
BM (30°-60°)	800.4	7.6	B1/1000		
BH (60°-80°)	245.7	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7
2.5°	1213.5	1221.9	1219.8	1217.7	1217.0	1218.4	1219.1	1218.4	1218.4	1218.4	1219.1
5°	1190.3	1197.3	1197.3	1202.2	1209.3	1217.7	1224.1	1225.4	1226.8	1228.9	1228.3
7.5°	1146.2	1151.7	1155.9	1172.1	1189.6	1212.1	1231.0	1240.9	1242.3	1250.0	1252.8
10°	1115.9	1123.0	1130.0	1146.8	1172.1	1205.8	1238.1	1261.9	1265.5	1283.7	1292.1
12.5°	1114.5	1121.6	1130.7	1148.9	1178.3	1214.2	1253.5	1287.9	1294.2	1320.8	1338.4
15°	1129.2	1137.6	1146.2	1168.6	1200.2	1243.6	1285.8	1328.6	1334.9	1372.8	1391.7
17.5°	1159.5	1170.7	1177.0	1199.5	1233.2	1281.6	1337.0	1386.1	1391.7	1435.9	1459.8
20°	1219.1	1232.5	1234.5	1252.8	1285.8	1337.7	1403.6	1464.7	1471.8	1522.3	1549.0
22.5°	1342.6	1361.6	1344.7	1353.8	1383.3	1435.3	1506.9	1584.0	1593.9	1651.5	1675.3
25°	1560.2	1586.9	1543.3	1527.9	1540.6	1594.6	1684.4	1782.0	1793.2	1839.6	1851.5
27.5°	1987.6	1953.2	1887.2	1822.7	1784.8	1815.7	1916.7	2037.5	2051.4	2096.4	2082.4
30°	2457.1	2427.0	2337.8	2194.6	2104.8	2099.9	2193.3	2328.0	2344.2	2386.9	2344.2
32.5°	2927.4	2898.6	2801.7	2625.5	2469.7	2392.6	2457.1	2606.7	2615.1	2642.4	2579.3
35°	3389.9	3360.5	3263.6	3083.2	2891.6	2716.1	2703.5	2871.9	2874.7	2903.5	2809.4
37.5°	3855.2	3830.6	3727.5	3550.6	3361.8	3119.7	3002.4	3123.2	3126.7	3154.7	3057.3
40°	4187.2	4197.7	4126.9	3989.9	3827.9	3563.2	3337.9	3390.6	3369.6	3416.5	3358.3
42.5°	4472.2	4493.2	4431.4	4362.6	4268.6	4035.6	3753.4	3744.3	3710.6	3735.9	3675.5
45°	4718.5	4736.0	4680.6	4664.5	4662.3	4498.8	4207.5	4152.8	4105.7	4100.8	4028.6
47.5°	4809.0	4842.7	4866.6	4920.6	5025.9	4957.1	4677.1	4592.1	4539.5	4500.9	4386.5
50°	4843.4	4879.2	4960.6	5117.8	5367.0	5396.4	5144.5	5049.0	4984.5	4914.3	4745.9
52.5°	4797.1	4861.0	4970.4	5235.0	5596.5	5748.8	5593.0	5509.5	5435.8	5321.4	5071.5
55°	4524.0	4587.9	4811.9	5233.6	5710.9	5995.8	6016.9	5979.6	5896.8	5716.5	5334.7
57.5°	3948.6	4043.3	4397.8	5055.4	5708.7	6208.5	6432.4	6459.0	6366.4	6108.1	5541.8
60°	3151.3	3279.7	3712.0	4660.3	5532.6	6323.6	6796.7	6930.0	6831.7	6494.1	5709.5
62.5°	2198.8	2347.7	2756.8	4041.2	5129.7	6240.8	7062.7	7309.0	7234.6	6839.4	5774.0
65°	1341.2	1389.0	1718.8	3180.1	4444.8	5894.1	7144.8	7513.9	7489.4	7050.7	5678.6
67.5°	893.5	933.5	1028.2	2180.6	3450.3	5201.4	6948.3	7478.1	7485.2	7016.3	5329.1
70°	538.3	572.7	634.5	1268.2	2236.0	4117.0	6339.7	7022.0	7062.7	6556.6	4666.5
72.5°	221.8	245.0	301.0	574.8	1158.0	2612.9	5048.3	6028.8	6123.6	5513.0	3581.5
75°	125.7	137.6	176.9	288.4	502.6	1217.7	3057.9	4279.8	4419.5	3799.8	2154.7
77.5°	83.5	89.2	114.4	186.7	282.8	415.5	1306.9	2229.8	2496.5	2075.3	932.7
80°	56.2	61.1	78.6	124.9	183.9	178.2	416.2	826.0	1016.3	713.1	227.4
82.5°	37.9	38.6	56.2	82.1	116.5	86.3	122.8	256.9	322.9	206.3	86.3
85°	21.7	21.0	41.4	47.8	52.0	35.8	37.2	77.2	101.1	87.0	49.1
87.5°	2.8	4.2	16.1	12.6	7.0	7.7	7.7	13.3	19.7	21.0	10.6
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°	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7
2.5°	1219.1	1218.4	1216.3	1214.2	1209.3	1206.4	1207.9	1206.4	1205.8	1206.4	1209.3
5°	1228.3	1226.1	1220.5	1213.5	1203.7	1191.8	1184.0	1172.8	1162.2	1155.9	1157.3
7.5°	1252.8	1250.7	1242.9	1223.3	1191.8	1141.8	1096.2	1056.3	1026.1	1008.5	1009.2
10°	1292.1	1288.6	1276.6	1233.2	1150.4	1041.5	951.0	875.9	826.8	803.6	801.6
12.5°	1338.4	1334.2	1313.1	1224.1	1071.7	901.9	776.9	693.4	647.8	627.4	625.4
15°	1393.2	1387.5	1346.1	1180.5	957.4	747.4	633.0	570.6	541.1	522.9	523.6
17.5°	1461.2	1451.4	1370.7	1115.2	833.1	629.6	544.6	497.6	471.6	454.1	452.6
20°	1549.7	1533.5	1390.3	1037.3	718.7	555.1	484.9	445.7	426.0	410.6	407.7
22.5°	1673.2	1650.0	1414.2	953.1	638.0	503.9	440.7	411.9	395.9	378.3	375.5
25°	1826.1	1798.8	1443.7	875.1	582.5	459.7	408.5	384.6	365.6	345.3	343.2
27.5°	2040.3	1991.2	1478.8	811.3	534.8	421.8	379.0	352.3	330.6	313.8	310.2
30°	2278.9	2198.2	1509.6	772.7	491.3	386.7	340.4	313.8	293.4	281.5	279.3
32.5°	2504.9	2395.4	1530.0	755.8	452.0	346.8	298.3	269.5	254.1	250.5	252.7
35°	2718.2	2573.7	1527.9	739.7	416.9	306.7	256.9	227.4	215.5	217.6	217.6
37.5°	2963.9	2763.8	1513.2	714.4	388.2	270.2	221.1	195.2	184.6	185.3	188.1
40°	3249.6	2983.6	1504.1	666.8	356.5	236.6	191.6	170.6	162.9	160.0	159.3
42.5°	3554.1	3196.2	1505.4	612.7	317.2	206.3	171.3	153.8	146.7	144.6	143.9
45°	3860.2	3399.0	1507.6	556.6	275.8	183.2	156.5	141.8	137.6	134.8	134.8
47.5°	4147.9	3571.7	1468.2	496.2	235.1	165.6	144.6	134.8	131.2	127.7	127.7
50°	4416.0	3686.7	1373.5	426.0	202.8	151.6	135.5	128.4	124.9	121.5	121.5
52.5°	4624.4	3705.1	1217.0	353.7	180.4	141.0	129.9	123.5	119.3	115.8	115.1
55°	4717.0	3590.6	994.6	286.4	162.9	131.9	124.2	117.9	113.0	109.5	108.8
57.5°	4693.2	3349.9	775.5	230.2	146.0	122.8	117.2	113.0	107.4	101.8	101.1
60°	4576.0	3027.7	584.7	191.6	130.6	113.0	109.5	106.0	98.3	89.8	88.5
62.5°	4373.2	2622.8	416.9	158.6	113.7	101.8	100.3	97.6	86.3	70.9	69.5
65°	4063.0	2130.8	280.7	131.9	97.6	89.2	89.8	85.0	70.2	52.7	51.2
67.5°	3609.5	1558.1	179.7	108.0	81.4	74.4	75.1	72.3	59.7	44.9	42.8
70°	3032.0	1031.7	117.2	82.1	65.3	57.5	61.8	62.4	50.5	36.5	35.1
72.5°	2222.7	609.2	82.1	61.1	47.8	40.0	50.5	52.0	40.7	27.4	25.9
75°	1266.8	289.2	61.8	44.2	29.5	28.1	39.3	39.3	28.1	18.2	16.8
77.5°	532.0	120.7	43.6	28.8	16.8	16.1	26.6	24.6	14.0	8.4	8.4
80°	153.8	54.0	23.2	14.0	7.0	6.4	10.6	7.7	3.5	1.4	1.4
82.5°	60.4	23.9	9.1	5.6	2.8	2.8	1.4	0.0	0.0	0.0	0.0
85°	35.8	9.8	4.2	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	2.2	1.4	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)