

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: LUMARK

Report Number: P882558

Luminaire Tested: **NAV-SB2C-727-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-727-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10848 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

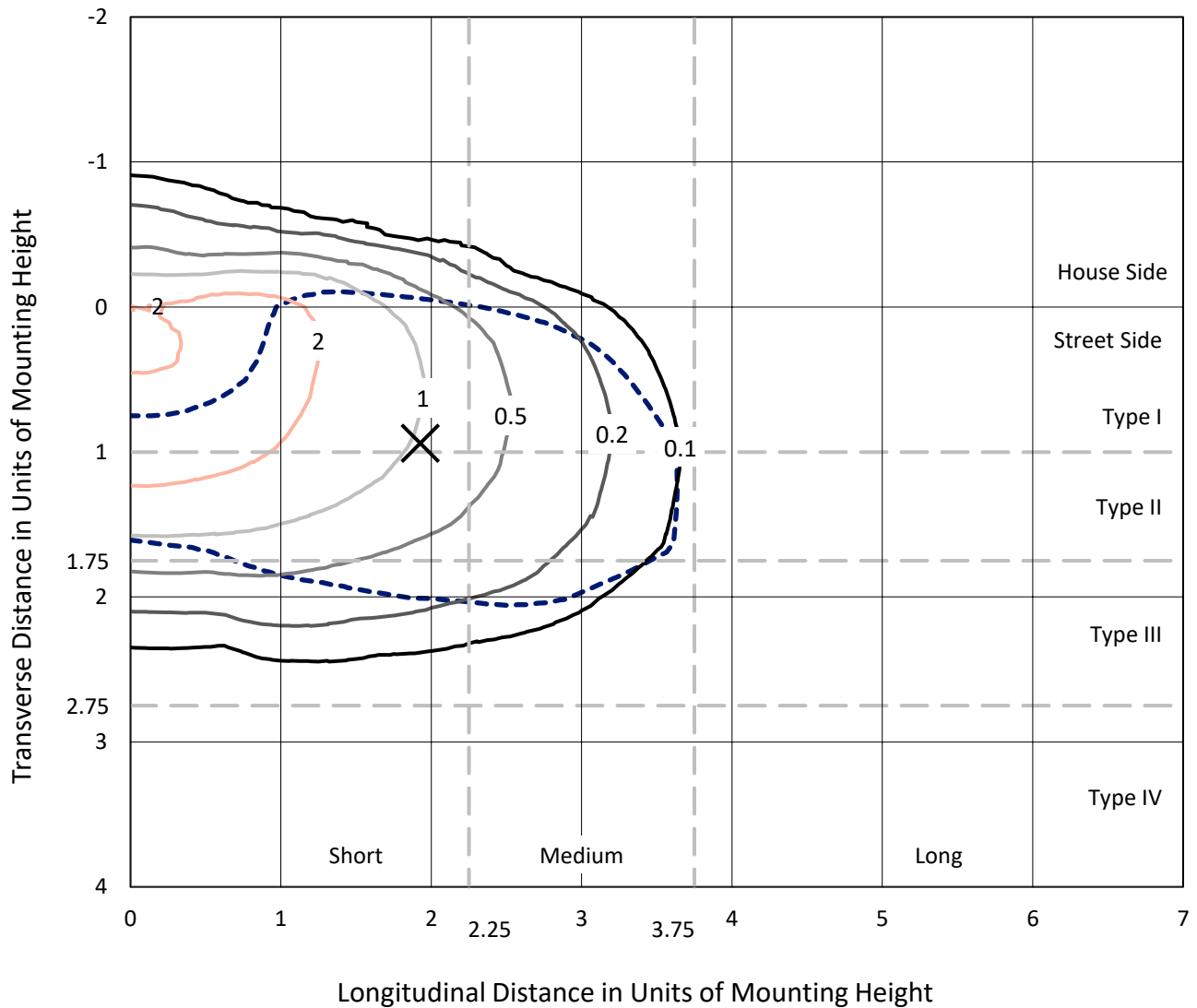
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

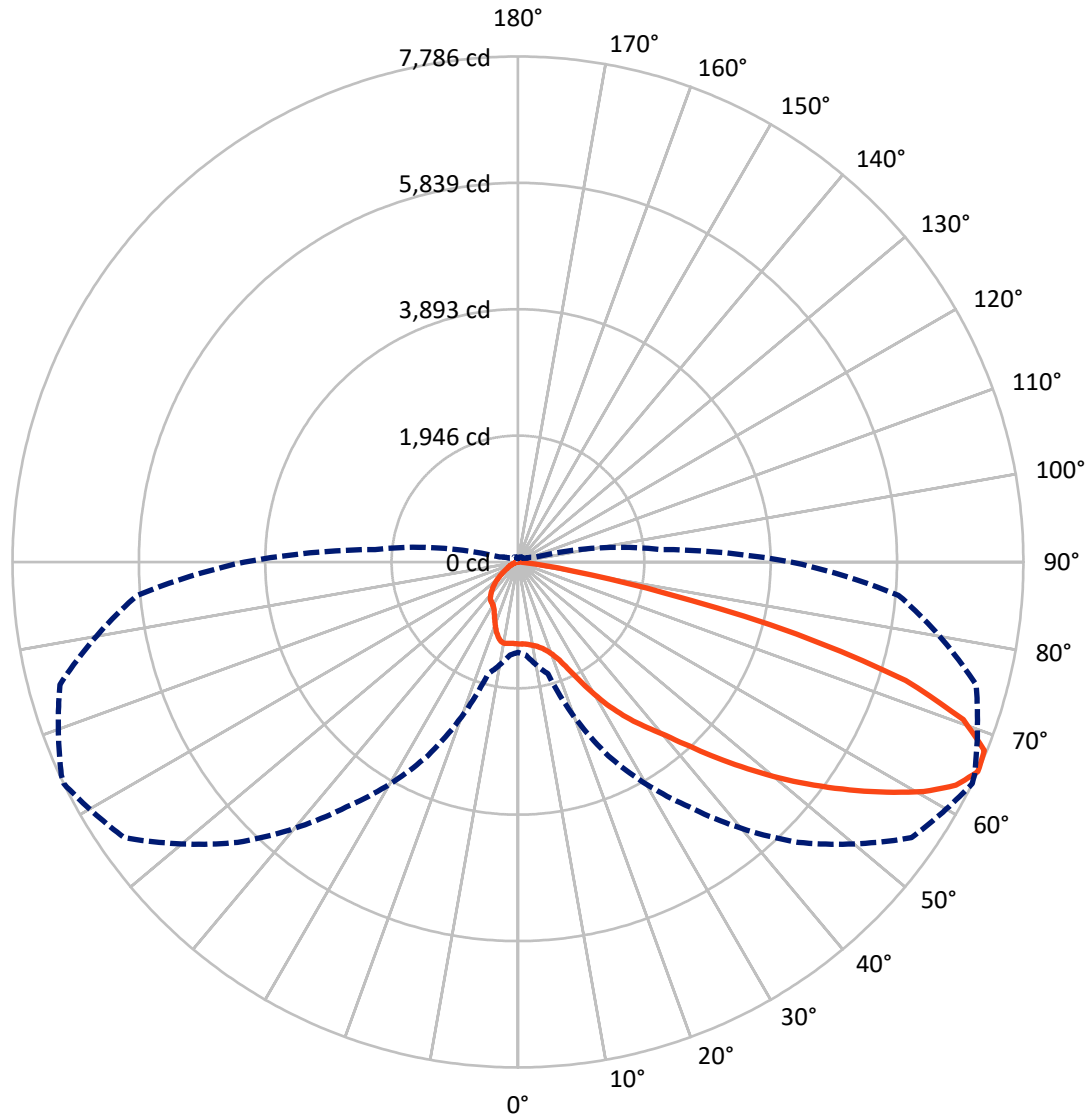
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	1450.7	0.0	1450.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9397.3	0.0	9397.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	10848.0	0.0	10848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	1.1
10°-20°	315.7	2.9
20°-30°	598.3	5.5
30°-40°	1210.6	11.2
40°-50°	2062.3	19.0
50°-60°	2804.6	25.9
60°-70°	2633.7	24.3
70°-80°	1055.2	9.7
80°-90°	51.1	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°	10848.0	100.0
0°-180°	10848.0	100.0

Coefficient of Utilization



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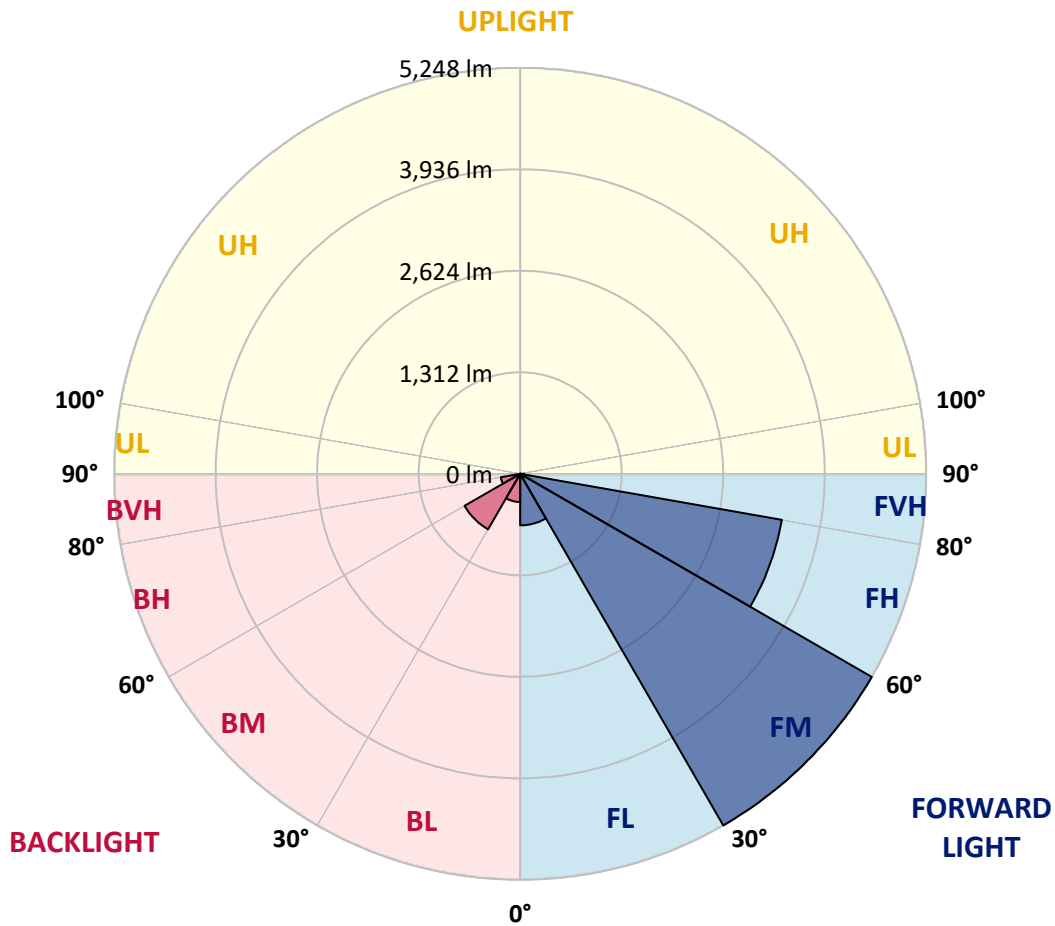
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.2	6.1			
FM (30°-60°)	5248.3	48.4			
FH (60°-80°)	3434.2	31.7			G2/5000
FVH (80°-90°)	48.6	0.4			G1/100
BL (0°-30°)	364.2	3.4	B1/500		
BM (30°-60°)	829.4	7.6	B1/1000		
BH (60°-80°)	254.6	2.3	B1/500		G1/500
BVH (80°-90°)	2.5	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°	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7
2.5°	1257.4	1266.1	1263.9	1261.7	1261.0	1262.5	1263.2	1262.5	1262.5	1262.5	1263.2
5°	1233.4	1240.6	1240.6	1245.7	1253.0	1261.7	1268.3	1269.7	1271.2	1273.4	1272.6
7.5°	1187.6	1193.4	1197.7	1214.5	1232.6	1255.9	1275.6	1285.7	1287.2	1295.2	1298.1
10°	1156.3	1163.6	1170.8	1188.3	1214.5	1249.4	1282.8	1307.6	1311.2	1330.1	1338.8
12.5°	1154.8	1162.1	1171.6	1190.5	1221.0	1258.1	1298.8	1334.5	1341.0	1368.6	1386.8
15°	1170.1	1178.8	1187.6	1210.8	1243.6	1288.6	1332.3	1376.6	1383.2	1422.5	1442.1
17.5°	1201.4	1213.0	1219.6	1242.8	1277.7	1327.9	1385.4	1436.3	1442.1	1487.9	1512.6
20°	1263.2	1277.0	1279.2	1298.1	1332.3	1386.1	1454.4	1517.7	1525.0	1577.4	1605.0
22.5°	1391.2	1410.8	1393.4	1402.8	1433.4	1487.2	1561.4	1641.3	1651.5	1711.2	1735.9
25°	1616.6	1644.3	1599.2	1583.2	1596.3	1652.3	1745.3	1846.4	1858.1	1906.1	1918.4
27.5°	2059.5	2023.9	1955.5	1888.6	1849.3	1881.3	1986.1	2111.1	2125.7	2172.2	2157.7
30°	2546.0	2514.7	2422.4	2274.0	2180.9	2175.9	2272.6	2412.2	2428.9	2473.3	2428.9
32.5°	3033.3	3003.4	2903.1	2720.5	2559.1	2479.1	2546.0	2700.9	2709.6	2738.0	2672.6
35°	3512.5	3482.0	3381.6	3194.7	2996.2	2814.4	2801.3	2975.8	2978.7	3008.5	2911.1
37.5°	3994.6	3969.2	3862.3	3679.0	3483.4	3232.5	3111.1	3236.2	3239.8	3268.9	3167.8
40°	4338.6	4349.5	4276.1	4134.3	3966.3	3692.1	3458.7	3513.2	3491.4	3540.1	3479.8
42.5°	4633.9	4655.7	4591.7	4520.4	4423.0	4181.5	3889.2	3879.7	3844.8	3871.0	3808.5
45°	4889.1	4907.3	4849.9	4833.1	4831.0	4661.5	4359.7	4303.0	4254.3	4249.2	4174.3
47.5°	4982.9	5017.9	5042.6	5098.6	5207.7	5136.4	4846.2	4758.2	4703.7	4663.7	4545.2
50°	5018.6	5055.7	5140.0	5302.9	5561.1	5591.6	5330.6	5231.7	5164.8	5092.0	4917.5
52.5°	4970.6	5036.8	5150.2	5424.4	5798.9	5956.7	5795.3	5708.7	5632.4	5513.8	5254.9
55°	4687.7	4753.9	4985.9	5422.9	5917.4	6212.7	6234.5	6196.0	6110.1	5923.2	5527.6
57.5°	4091.4	4189.5	4556.8	5238.2	5915.2	6433.0	6665.0	6692.6	6596.7	6329.0	5742.2
60°	3265.2	3398.3	3846.3	4828.8	5732.7	6552.3	7042.4	7180.6	7078.8	6729.0	5916.0
62.5°	2278.4	2432.6	2856.5	4187.4	5315.3	6466.5	7318.1	7573.3	7496.2	7086.8	5982.9
65°	1389.7	1439.2	1781.0	3295.1	4605.5	6107.2	7403.1	7785.7	7760.2	7305.7	5884.0
67.5°	925.8	967.2	1065.4	2259.5	3575.0	5389.5	7199.5	7748.6	7755.9	7270.1	5521.8
70°	557.8	593.4	657.4	1314.1	2316.9	4265.9	6569.0	7275.9	7318.1	6793.7	4835.3
72.5°	229.8	253.8	312.0	595.6	1199.9	2707.5	5230.9	6246.9	6345.0	5712.4	3711.0
75°	130.2	142.5	183.3	298.9	520.7	1261.7	3168.5	4434.6	4579.3	3937.2	2232.6
77.5°	86.5	92.4	118.5	193.4	293.1	430.5	1354.1	2310.4	2586.7	2150.4	966.5
80°	58.2	63.3	81.4	129.4	190.5	184.7	431.2	855.9	1053.0	738.9	235.6
82.5°	39.3	40.0	58.2	85.1	120.7	89.4	127.3	266.2	334.5	213.8	89.4
85°	22.5	21.8	42.9	49.5	53.8	37.1	38.5	80.0	104.7	90.2	50.9
87.5°	2.9	4.4	16.7	13.1	7.3	8.0	8.0	13.8	20.4	21.8	10.9
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°	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7	1261.7
2.5°	1263.2	1262.5	1260.3	1258.1	1253.0	1250.1	1251.6	1250.1	1249.4	1250.1	1253.0
5°	1272.6	1270.5	1264.6	1257.4	1247.2	1234.8	1226.8	1215.2	1204.3	1197.7	1199.2
7.5°	1298.1	1295.9	1287.9	1267.6	1234.8	1183.2	1135.9	1094.5	1063.2	1045.0	1045.7
10°	1338.8	1335.2	1322.8	1277.7	1191.9	1079.2	985.4	907.6	856.7	832.7	830.5
12.5°	1386.8	1382.5	1360.6	1268.3	1110.5	934.5	805.0	718.5	671.2	650.1	648.0
15°	1443.5	1437.7	1394.8	1223.2	991.9	774.5	656.0	591.2	560.7	541.8	542.5
17.5°	1514.1	1503.9	1420.3	1155.6	863.2	652.3	564.3	515.6	488.7	470.5	469.1
20°	1605.7	1589.0	1440.6	1074.8	744.7	575.2	502.5	461.8	441.4	425.4	422.5
22.5°	1733.7	1709.7	1465.4	987.6	661.0	522.1	456.7	426.9	410.2	392.0	389.1
25°	1892.2	1863.9	1495.9	906.8	603.6	476.3	423.2	398.5	378.9	357.8	355.6
27.5°	2114.0	2063.1	1532.3	840.7	554.1	437.1	392.7	365.1	342.5	325.1	321.4
30°	2361.3	2277.7	1564.3	800.7	509.1	400.7	352.7	325.1	304.0	291.6	289.4
32.5°	2595.5	2482.0	1585.4	783.2	468.3	359.2	309.1	279.3	263.3	259.6	261.8
35°	2816.5	2666.7	1583.2	766.5	432.0	317.8	266.2	235.6	223.3	225.4	225.4
37.5°	3071.1	2863.8	1567.9	740.3	402.2	280.0	229.1	202.2	191.3	192.0	194.9
40°	3367.1	3091.4	1558.4	690.9	369.4	245.1	198.5	176.7	168.7	165.8	165.1
42.5°	3682.7	3311.8	1559.9	634.9	328.7	213.8	177.4	159.3	152.0	149.8	149.1
45°	3999.7	3521.9	1562.1	576.7	285.8	189.8	162.2	146.9	142.5	139.6	139.6
47.5°	4297.9	3700.8	1521.4	514.1	243.6	171.6	149.8	139.6	136.0	132.4	132.4
50°	4575.7	3820.1	1423.2	441.4	210.2	157.1	140.4	133.1	129.4	125.8	125.8
52.5°	4791.7	3839.0	1261.0	366.5	186.9	146.2	134.5	128.0	123.6	120.0	119.3
55°	4887.7	3720.5	1030.5	296.7	168.7	136.7	128.7	122.2	117.1	113.4	112.7
57.5°	4863.0	3471.0	803.6	238.5	151.3	127.3	121.4	117.1	111.3	105.4	104.7
60°	4741.5	3137.2	605.8	198.5	135.3	117.1	113.4	109.8	101.8	93.1	91.6
62.5°	4531.3	2717.6	432.0	164.4	117.8	105.4	104.0	101.1	89.4	73.4	72.0
65°	4209.9	2207.9	290.9	136.7	101.1	92.4	93.1	88.0	72.7	54.5	53.1
67.5°	3740.1	1614.4	186.2	112.0	84.4	77.1	77.8	74.9	61.8	46.5	44.4
70°	3141.6	1069.0	121.4	85.1	67.6	59.6	64.0	64.7	52.4	37.8	36.4
72.5°	2303.1	631.2	85.1	63.3	49.5	41.5	52.4	53.8	42.2	28.4	26.9
75°	1312.6	299.6	64.0	45.8	30.5	29.1	40.7	40.7	29.1	18.9	17.5
77.5°	551.2	125.1	45.1	29.8	17.5	16.7	27.6	25.5	14.5	8.7	8.7
80°	159.3	56.0	24.0	14.5	7.3	6.5	10.9	8.0	3.6	1.5	1.5
82.5°	62.5	24.7	9.5	5.8	2.9	2.9	1.5	0.0	0.0	0.0	0.0
85°	37.1	10.2	4.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	2.2	1.5	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)