

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: P960258

Luminaire Tested: **NAV-SB1C-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4632 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

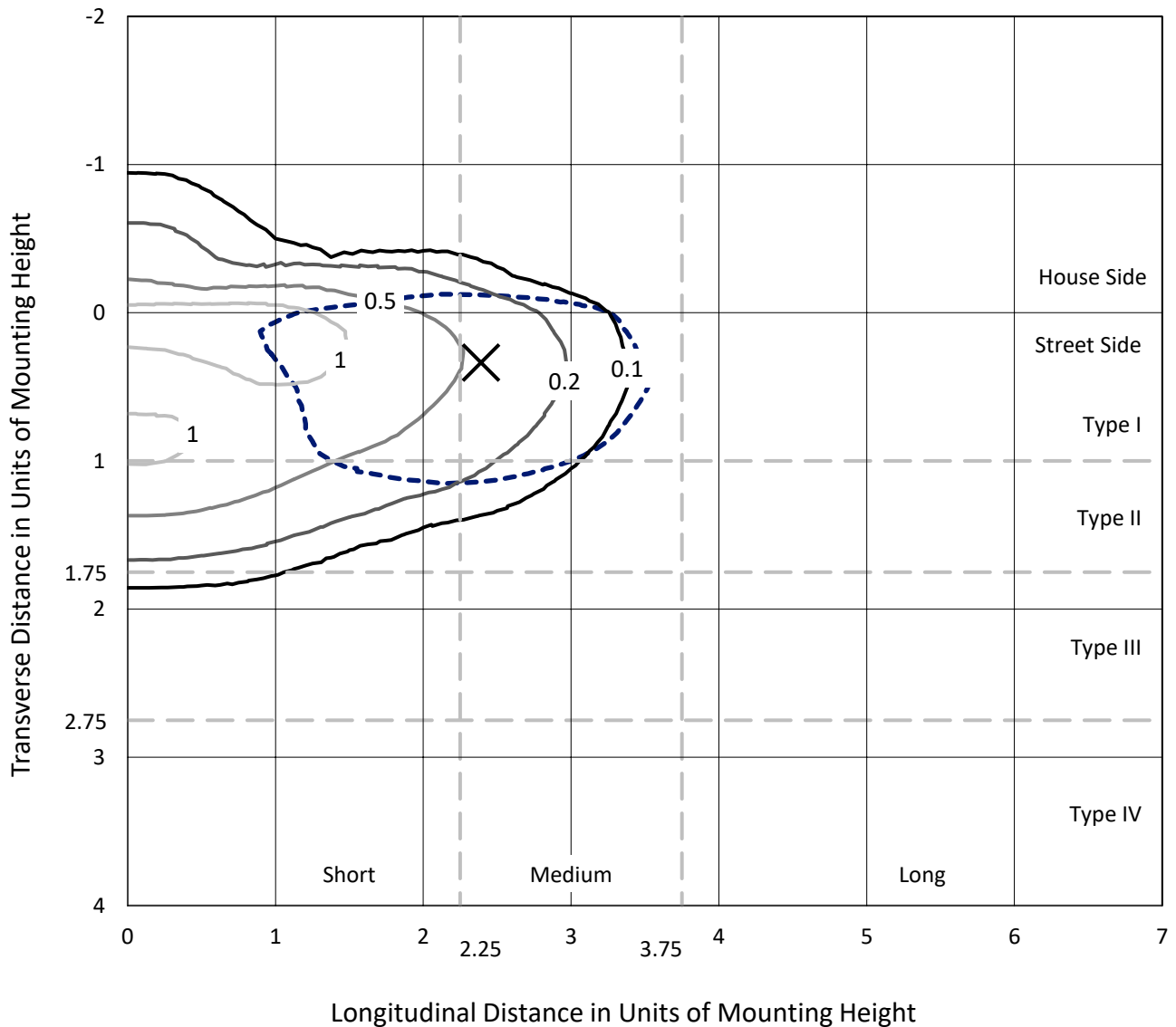
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P960258
 CATALOG NUMBER: NAV-SB1C-722-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

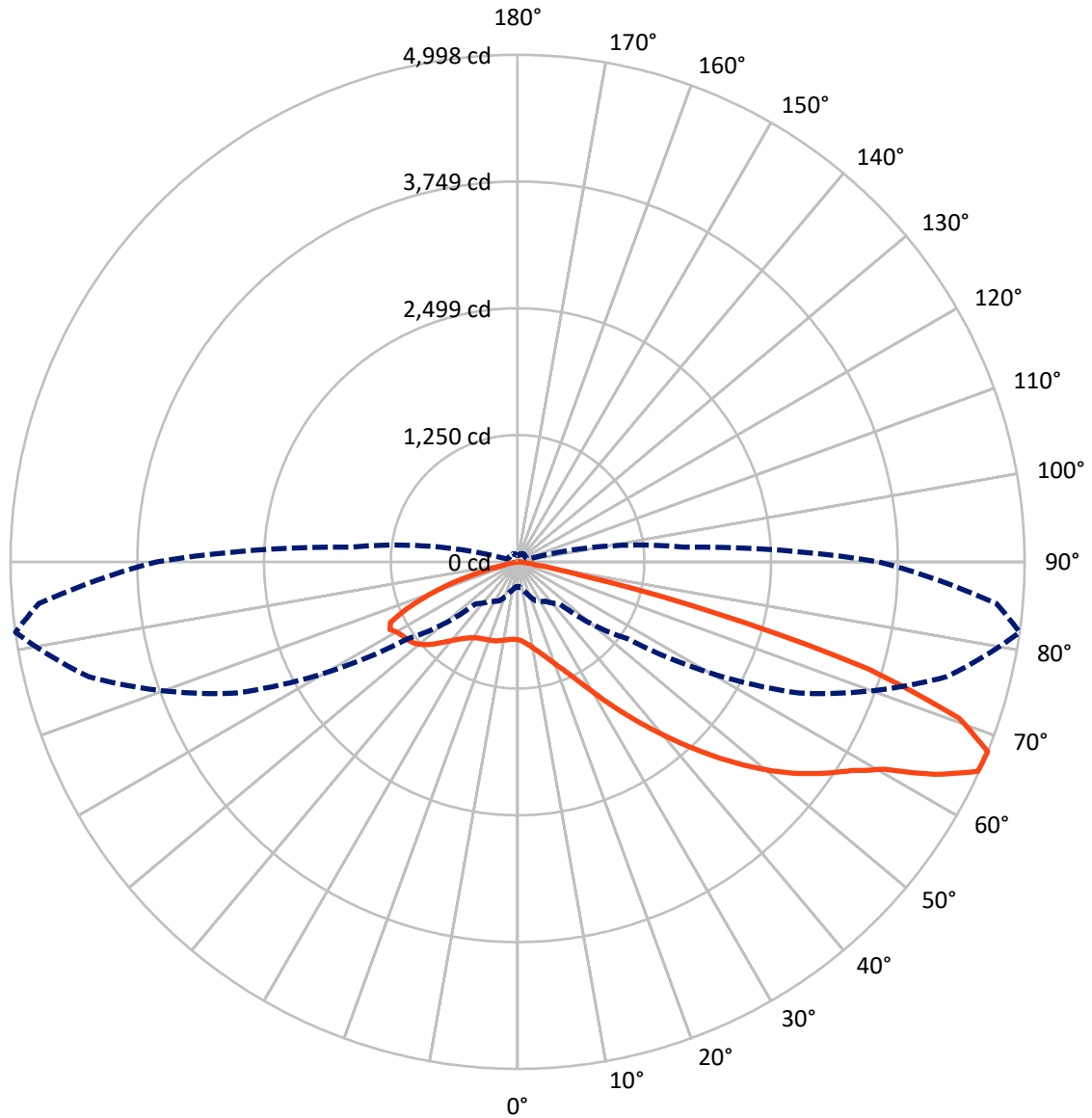
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P960258
CATALOG NUMBER: NAV-SB1C-722-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P960258
 CATALOG NUMBER: NAV-SB1C-722-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	839.0	0.0	839.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3792.9	0.0	3792.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	4632.0	0.0	4632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	1.5
10°-20°	177.7	3.8
20°-30°	284.5	6.1
30°-40°	503.2	10.9
40°-50°	881.6	19.0
50°-60°	1175.8	25.4
60°-70°	1094.6	23.6
70°-80°	420.1	9.1
80°-90°	26.1	0.6
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°	4632.0	100.0
0°-180°	4632.0	100.0

Coefficient of Utilization



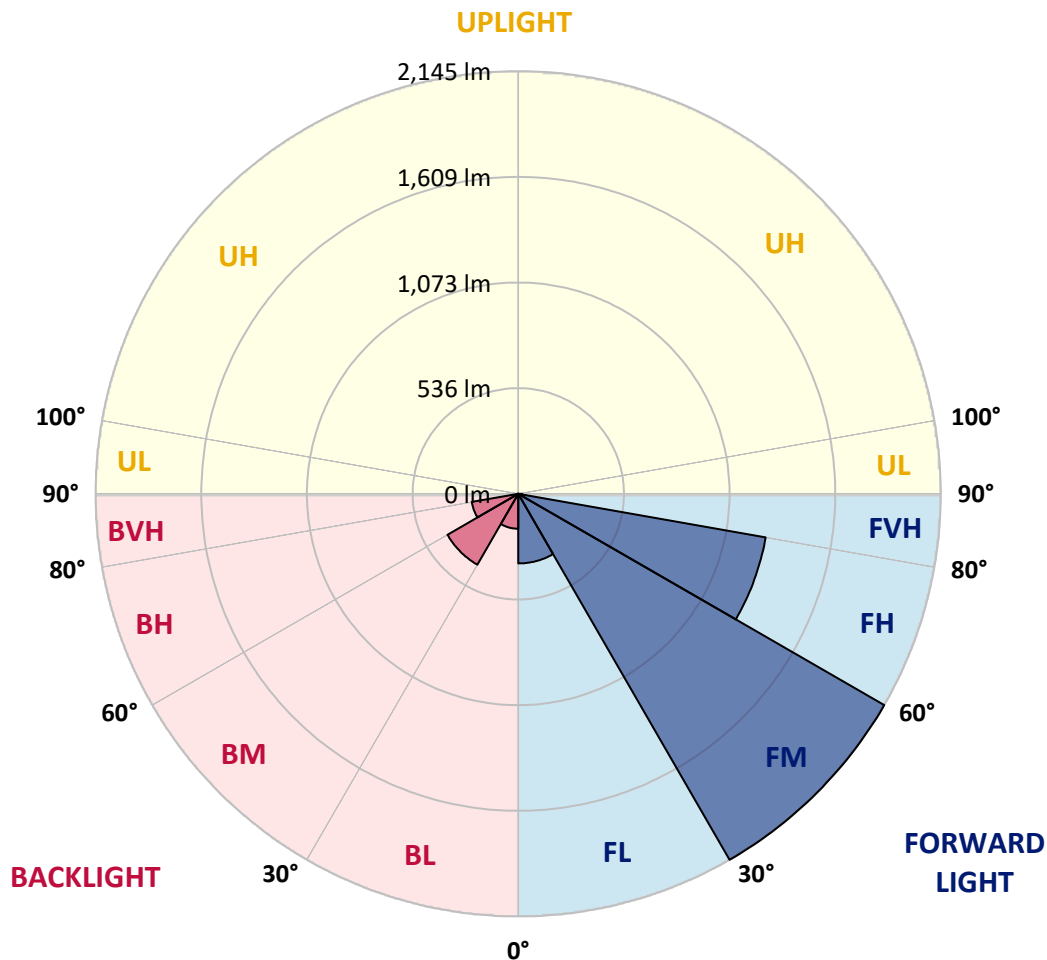
REPORT NUMBER: P960258
 CATALOG NUMBER: NAV-SB1C-722-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	353.4	7.6			
FM (30°-60°)	2145.3	46.3			
FH (60°-80°)	1275.3	27.5			G1/1800
FVH (80°-90°)	19.0	0.4			G1/100
BL (0°-30°)	177.2	3.8	B1/500		
BM (30°-60°)	415.2	9.0	B1/1000		
BH (60°-80°)	239.5	5.2	B1/500		G1/500
BVH (80°-90°)	7.1	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



REPORT NUMBER: P960258
 CATALOG NUMBER: NAV-SB1C-722-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3
2.5°	811.1	815.7	813.0	811.7	809.3	806.1	803.4	795.0	786.4	780.7	778.7
5°	827.4	832.1	831.7	833.0	834.8	835.7	835.1	825.7	813.3	803.7	798.1
7.5°	813.3	818.8	823.1	829.7	841.4	853.7	859.8	857.7	845.1	831.7	824.7
10°	773.7	779.4	789.7	805.3	830.0	856.7	879.0	889.4	881.4	866.7	857.1
12.5°	701.0	706.6	727.0	761.1	802.4	848.7	891.4	919.1	921.1	906.4	895.1
15°	619.3	624.9	646.7	689.3	752.3	826.8	898.1	950.5	968.1	955.4	941.8
17.5°	568.6	573.6	590.0	624.3	690.0	782.7	895.7	983.8	1024.2	1014.1	997.8
20°	553.3	557.6	565.3	589.3	644.0	737.0	880.4	1015.2	1084.6	1078.8	1060.5
22.5°	569.6	573.6	575.9	586.6	620.9	707.0	861.1	1047.1	1154.6	1155.2	1132.8
25°	607.3	611.3	608.6	615.3	630.3	697.6	853.7	1084.9	1242.6	1249.9	1224.6
27.5°	669.3	669.6	663.3	663.0	665.3	711.7	861.4	1125.2	1353.6	1367.4	1336.0
30°	793.7	788.7	764.3	738.0	726.0	753.7	882.7	1172.9	1484.7	1509.0	1469.6
32.5°	985.4	978.2	933.5	870.4	807.1	821.4	921.1	1227.2	1627.4	1671.5	1623.4
35°	1193.6	1191.6	1144.8	1051.1	940.4	917.8	983.5	1298.6	1783.2	1853.2	1796.2
37.5°	1387.0	1386.0	1359.4	1249.0	1114.2	1052.2	1083.5	1391.9	1950.0	2051.3	1983.9
40°	1563.7	1566.7	1540.1	1441.4	1305.6	1224.6	1219.5	1507.4	2135.4	2267.1	2187.0
42.5°	1716.5	1719.8	1692.8	1619.8	1494.7	1415.3	1386.6	1648.8	2316.4	2498.8	2404.1
45°	1820.2	1840.9	1836.9	1778.5	1688.8	1606.4	1587.4	1826.2	2522.8	2744.6	2633.5
47.5°	1849.5	1868.6	1898.6	1906.6	1851.9	1770.8	1793.5	2040.0	2731.6	2990.7	2864.4
50°	1777.1	1794.9	1857.2	1940.2	1978.2	1953.2	1993.9	2269.0	2945.3	3236.2	3090.8
52.5°	1634.5	1652.4	1731.1	1862.5	2017.6	2096.3	2195.0	2494.8	3152.5	3468.6	3305.2
55°	1428.0	1447.0	1548.1	1696.8	1942.6	2155.4	2362.8	2720.2	3342.2	3677.7	3498.6
57.5°	1147.2	1161.2	1266.3	1474.4	1753.8	2096.6	2486.5	2966.4	3521.0	3883.2	3690.4
60°	747.6	760.0	882.1	1114.2	1441.0	1900.6	2511.1	3240.8	3758.5	4150.3	3948.8
62.5°	497.2	505.5	577.9	748.4	1014.9	1524.1	2366.8	3460.0	4106.6	4615.2	4392.0
65°	341.1	349.5	421.9	540.6	655.7	1008.2	1951.6	3431.0	4422.1	4984.4	4720.5
67.5°	243.4	250.4	311.8	423.8	474.6	585.6	1323.0	3060.1	4376.8	4998.3	4738.3
70°	174.5	178.5	229.1	330.2	377.2	351.9	735.6	2340.5	3832.2	4615.5	4377.4
72.5°	122.1	123.4	159.1	251.4	303.8	256.8	350.1	1560.4	2898.4	3622.7	3393.6
75°	82.7	84.4	107.0	184.4	243.7	196.1	185.4	836.7	1701.5	2005.3	1797.5
77.5°	50.7	51.4	69.0	126.1	182.4	149.4	119.4	354.5	658.4	646.3	550.9
80°	28.7	28.7	44.0	78.4	124.4	96.4	83.7	150.8	208.4	183.1	161.4
82.5°	16.0	16.3	32.0	48.7	82.4	57.0	46.0	69.7	90.0	79.7	69.4
85°	6.7	7.4	19.7	23.0	39.4	28.4	18.7	29.3	33.3	29.7	21.6
87.5°	0.7	1.0	6.0	4.3	4.7	5.6	2.7	5.6	4.7	4.7	3.4
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: P960258
 CATALOG NUMBER: NAV-SB1C-722-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3
2.5°	772.3	767.3	754.7	740.0	720.7	711.3	698.6	690.0	682.6	683.4	676.6
5°	787.4	774.7	746.3	711.0	667.0	635.6	602.3	579.2	560.6	556.6	547.6
7.5°	808.0	788.0	738.3	674.7	600.2	544.0	493.5	461.2	438.2	430.9	423.5
10°	834.8	805.8	728.1	628.9	521.9	450.2	396.2	370.8	355.2	349.8	345.8
12.5°	865.7	826.0	714.3	573.3	441.2	372.2	337.8	325.1	320.1	318.5	317.4
15°	904.8	851.4	693.6	507.3	372.8	324.5	309.9	308.1	308.8	308.1	307.8
17.5°	951.1	879.0	660.0	439.2	326.8	300.1	294.8	296.1	297.8	297.5	296.8
20°	1001.8	906.4	616.9	378.8	295.5	282.8	279.8	281.2	282.5	281.8	281.5
22.5°	1059.5	935.8	569.3	331.8	274.5	266.8	263.4	263.8	263.8	262.5	261.8
25°	1128.5	968.1	519.3	298.5	258.5	252.5	248.5	247.1	245.1	241.1	240.5
27.5°	1210.9	1002.4	471.2	275.1	245.8	240.2	235.4	232.1	227.1	220.5	219.8
30°	1303.6	1044.2	430.5	260.5	235.7	230.1	224.8	219.8	212.5	204.1	203.5
32.5°	1412.7	1088.9	400.9	250.8	226.7	220.8	214.4	208.4	200.4	192.1	192.4
35°	1542.7	1142.9	383.6	244.2	219.8	211.8	204.8	198.1	192.1	184.7	184.1
37.5°	1683.8	1200.3	378.2	240.8	215.1	202.7	194.7	190.1	189.4	185.1	184.7
40°	1838.2	1268.2	382.2	238.8	210.1	194.1	185.4	184.4	186.0	178.5	178.8
42.5°	2001.6	1349.0	388.9	236.5	203.1	185.4	177.1	177.1	175.8	165.1	165.1
45°	2178.3	1442.0	395.5	230.7	194.7	176.7	170.5	168.1	162.4	152.1	151.7
47.5°	2356.5	1536.7	400.6	220.5	184.7	169.4	163.8	158.4	150.1	140.7	140.4
50°	2525.5	1621.8	395.1	205.1	173.4	162.4	156.4	149.0	140.0	133.8	132.7
52.5°	2676.6	1695.5	372.5	187.1	161.4	155.1	149.8	142.1	134.7	128.0	127.4
55°	2808.0	1755.2	332.5	170.0	150.8	148.7	143.4	133.8	123.7	118.1	117.4
57.5°	2934.1	1800.5	282.5	156.1	141.0	141.8	133.8	125.0	115.7	109.7	109.1
60°	3101.8	1861.2	231.8	143.1	130.7	132.7	124.0	117.8	106.1	98.4	97.4
62.5°	3369.9	1955.6	184.1	127.1	118.7	119.4	115.7	108.0	94.1	85.1	84.4
65°	3582.7	1921.0	145.0	109.7	105.1	106.1	106.1	97.7	82.7	72.4	71.3
67.5°	3558.7	1644.8	115.7	92.7	92.0	92.7	95.0	88.0	73.4	65.0	63.7
70°	3278.3	1308.3	92.7	77.1	80.1	78.4	85.1	80.4	66.0	57.7	56.7
72.5°	2674.9	942.5	70.7	63.7	61.4	64.1	76.7	72.4	55.0	45.7	44.7
75°	1563.0	502.9	52.7	50.3	44.4	53.4	68.1	61.7	42.0	33.7	32.7
77.5°	508.9	175.4	38.6	37.0	33.0	43.0	58.0	52.1	34.3	26.6	25.7
80°	136.4	53.0	26.3	24.4	21.3	32.0	46.0	41.3	24.7	17.3	17.0
82.5°	54.7	22.3	15.4	13.6	11.7	22.0	36.4	33.3	18.3	11.0	11.0
85°	17.6	7.4	5.6	4.3	5.3	13.6	21.6	22.7	13.0	5.6	4.3
87.5°	2.4	1.0	1.0	1.3	1.0	2.4	6.7	6.4	3.7	0.7	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)