

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: P883058

Luminaire Tested: **NAV-SB3B-722-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883058  
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-SB3B-722-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

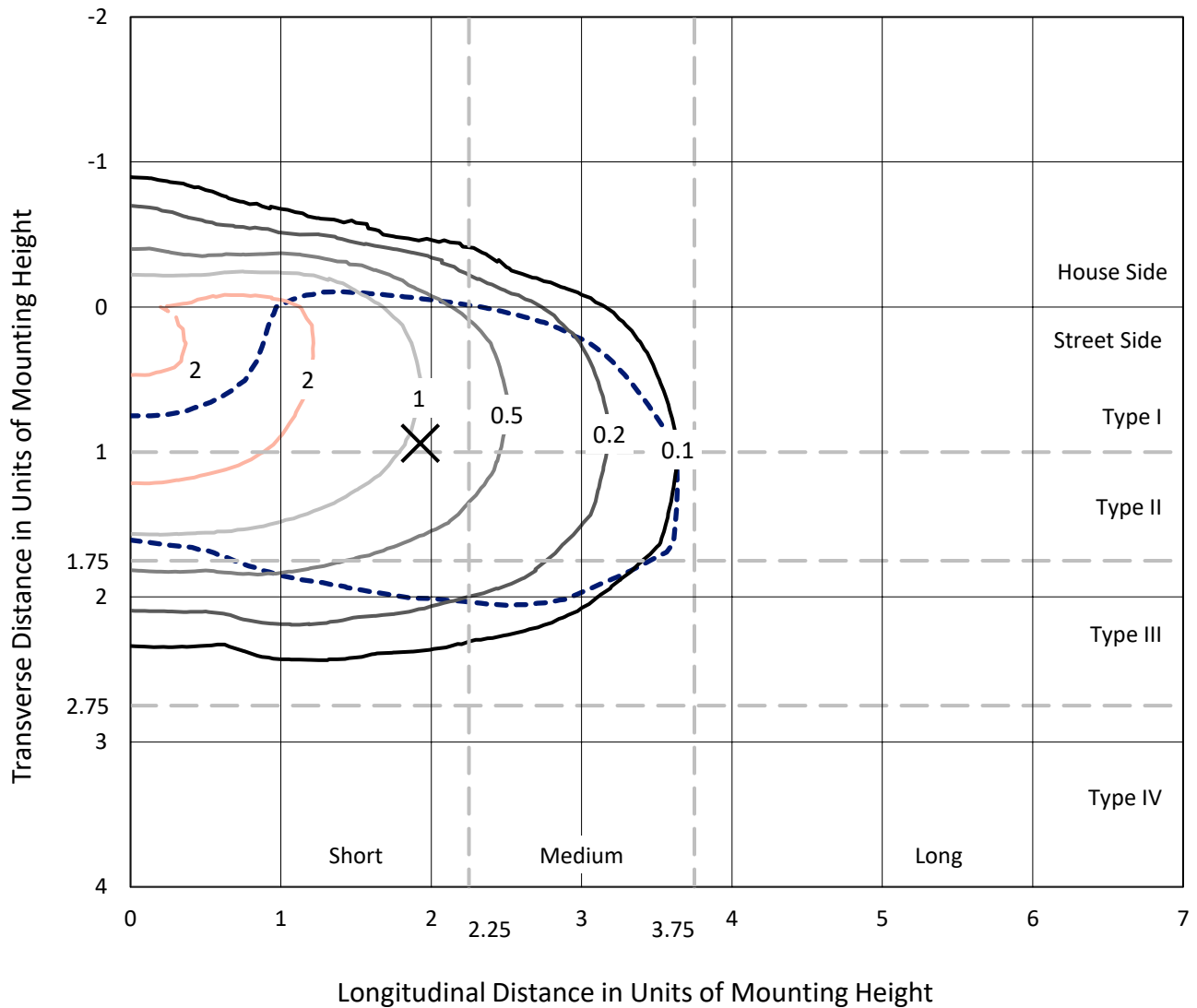
Lumens per Lamp: N/A  
Luminaire Lumens: 10556 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): 120.0  
Input Current (Ain): 0.919  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.657  
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

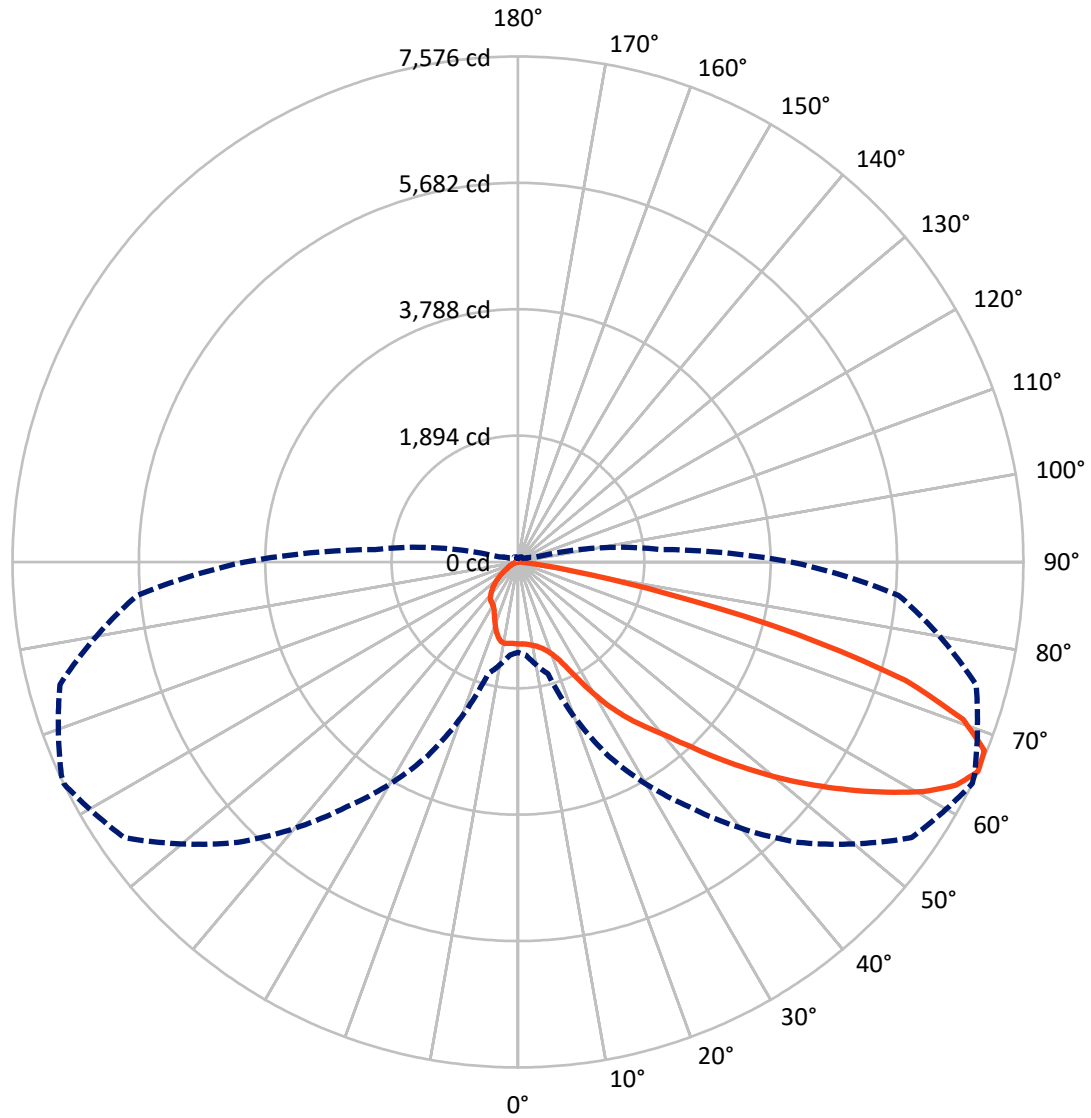
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P883058  
CATALOG NUMBER: NAV-SB3B-722-U-T3-HSS

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: NAV-SB3B-722-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1411.7	0.0	1411.7
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	9144.3	0.0	9144.3
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	10556.0	0.0	10556.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.3	1.1
10°-20°	307.2	2.9
20°-30°	582.2	5.5
30°-40°	1178.1	11.2
40°-50°	2006.8	19.0
50°-60°	2729.1	25.9
60°-70°	2562.8	24.3
70°-80°	1026.8	9.7
80°-90°	49.7	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°	10556.0	100.0
0°-180°	10556.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P883058

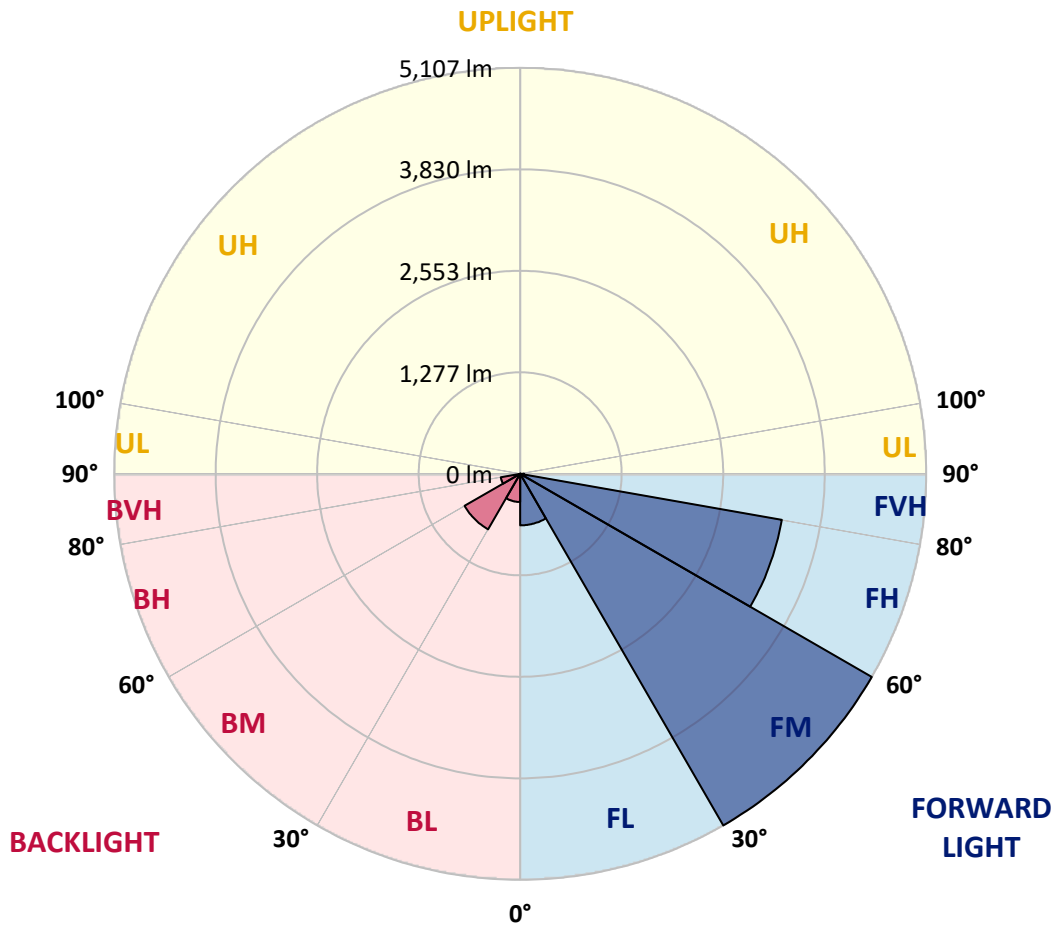
CATALOG NUMBER: NAV-SB3B-722-U-T3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.3	6.1			
FM (30°-60°)	5107.0	48.4			
FH (60°-80°)	3341.8	31.7			G2/5000
FVH (80°-90°)	47.3	0.4			G1/100
BL (0°-30°)	354.4	3.4	B1/500		
BM (30°-60°)	807.0	7.6	B1/1000		
BH (60°-80°)	247.8	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



REPORT NUMBER: P883058

CATALOG NUMBER: NAV-SB3B-722-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8
2.5°	1223.5	1232.0	1229.9	1227.8	1227.1	1228.5	1229.2	1228.5	1228.5	1228.5	1229.2
5°	1200.2	1207.3	1207.3	1212.2	1219.3	1227.8	1234.1	1235.6	1237.0	1239.1	1238.4
7.5°	1155.6	1161.3	1165.5	1181.8	1199.5	1222.1	1241.2	1251.1	1252.5	1260.3	1263.2
10°	1125.2	1132.2	1139.3	1156.3	1181.8	1215.7	1248.3	1272.4	1275.9	1294.3	1302.8
12.5°	1123.7	1130.8	1140.0	1158.4	1188.1	1224.2	1263.9	1298.5	1304.9	1331.8	1349.5
15°	1138.6	1147.1	1155.6	1178.2	1210.1	1254.0	1296.4	1339.6	1345.9	1384.2	1403.3
17.5°	1169.0	1180.4	1186.7	1209.4	1243.3	1292.2	1348.1	1397.6	1403.3	1447.9	1471.9
20°	1229.2	1242.6	1244.8	1263.2	1296.4	1348.8	1415.3	1476.9	1483.9	1534.9	1561.8
22.5°	1353.7	1372.8	1355.9	1365.1	1394.8	1447.1	1519.3	1597.2	1607.1	1665.1	1689.2
25°	1573.1	1600.0	1556.1	1540.6	1553.3	1607.8	1698.4	1796.7	1808.0	1854.8	1866.8
27.5°	2004.1	1969.4	1902.9	1837.8	1799.6	1830.7	1932.6	2054.3	2068.5	2113.7	2099.6
30°	2477.5	2447.1	2357.2	2212.8	2122.2	2117.3	2211.4	2347.3	2363.6	2406.7	2363.6
32.5°	2951.6	2922.6	2824.9	2647.3	2490.2	2412.4	2477.5	2628.2	2636.7	2664.3	2600.6
35°	3417.9	3388.2	3290.6	3108.7	2915.5	2738.6	2725.9	2895.7	2898.5	2927.5	2832.7
37.5°	3887.1	3862.4	3758.3	3580.0	3389.6	3145.5	3027.3	3149.0	3152.6	3180.9	3082.5
40°	4221.8	4232.5	4161.0	4023.0	3859.5	3592.7	3365.6	3418.7	3397.4	3444.8	3386.1
42.5°	4509.1	4530.4	4468.1	4398.8	4303.9	4069.0	3784.5	3775.3	3741.3	3766.8	3706.0
45°	4757.5	4775.2	4719.3	4703.0	4700.9	4536.0	4242.4	4187.2	4139.8	4134.8	4061.9
47.5°	4848.8	4882.8	4906.8	4961.3	5067.5	4998.1	4715.8	4630.2	4577.1	4538.2	4422.8
50°	4883.5	4919.6	5001.7	5160.2	5411.4	5441.1	5187.1	5090.8	5025.7	4955.0	4785.1
52.5°	4836.8	4901.2	5011.6	5278.4	5642.8	5796.4	5639.3	5555.1	5480.7	5365.4	5113.5
55°	4561.5	4625.9	4851.6	5276.9	5758.1	6045.5	6066.7	6029.2	5945.7	5763.8	5378.8
57.5°	3981.2	4076.8	4434.1	5097.2	5756.0	6259.9	6485.6	6512.5	6419.1	6158.7	5587.6
60°	3177.3	3306.8	3742.8	4698.8	5578.4	6375.9	6852.9	6987.3	6888.3	6547.9	5756.7
62.5°	2217.1	2367.1	2779.6	4074.6	5172.2	6292.4	7121.1	7369.5	7294.5	6896.0	5821.8
65°	1352.3	1400.4	1733.0	3206.4	4481.5	5942.8	7203.9	7576.1	7551.3	7109.0	5725.6
67.5°	900.8	941.2	1036.7	2198.7	3478.8	5244.4	7005.7	7540.0	7547.1	7074.4	5373.2
70°	542.8	577.4	639.7	1278.7	2254.6	4151.1	6392.2	7080.0	7121.1	6610.9	4705.2
72.5°	223.6	247.0	303.6	579.6	1167.6	2634.6	5090.1	6078.7	6174.2	5558.6	3611.1
75°	126.7	138.7	178.3	290.8	506.7	1227.8	3083.2	4315.2	4456.1	3831.2	2172.5
77.5°	84.2	89.9	115.3	188.2	285.2	418.9	1317.6	2248.2	2517.1	2092.5	940.5
80°	56.6	61.6	79.3	126.0	185.4	179.7	419.6	832.9	1024.7	719.0	229.3
82.5°	38.2	38.9	56.6	82.8	117.5	87.0	123.8	259.0	325.5	208.0	87.0
85°	21.9	21.2	41.8	48.1	52.4	36.1	37.5	77.8	101.9	87.7	49.5
87.5°	2.8	4.2	16.3	12.7	7.1	7.8	7.8	13.4	19.8	21.2	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

REPORT NUMBER: P883058  
 CATALOG NUMBER: NAV-SB3B-722-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8
2.5°	1229.2	1228.5	1226.4	1224.2	1219.3	1216.5	1217.9	1216.5	1215.7	1216.5	1219.3
5°	1238.4	1236.3	1230.6	1223.5	1213.6	1201.6	1193.8	1182.5	1171.9	1165.5	1166.9
7.5°	1263.2	1261.0	1253.2	1233.4	1201.6	1151.3	1105.3	1065.0	1034.6	1016.9	1017.6
10°	1302.8	1299.2	1287.2	1243.3	1159.8	1050.2	958.9	883.1	833.6	810.3	808.1
12.5°	1349.5	1345.2	1324.0	1234.1	1080.6	909.3	783.4	699.2	653.2	632.6	630.5
15°	1404.7	1399.0	1357.3	1190.3	965.2	753.6	638.3	575.3	545.6	527.2	527.9
17.5°	1473.3	1463.4	1382.0	1124.5	840.0	634.8	549.1	501.7	475.5	457.8	456.4
20°	1562.5	1546.2	1401.9	1045.9	724.6	559.8	489.0	449.4	429.5	414.0	411.1
22.5°	1687.0	1663.7	1425.9	961.0	643.3	508.1	444.4	415.4	399.1	381.4	378.6
25°	1841.3	1813.7	1455.6	882.4	587.3	463.5	411.9	387.8	368.7	348.2	346.0
27.5°	2057.1	2007.6	1491.0	818.0	539.2	425.3	382.1	355.2	333.3	316.3	312.8
30°	2297.7	2216.4	1522.2	779.1	495.4	389.9	343.2	316.3	295.8	283.8	281.6
32.5°	2525.6	2415.2	1542.7	762.1	455.7	349.6	300.8	271.7	256.2	252.6	254.8
35°	2740.7	2595.0	1540.6	745.9	420.3	309.2	259.0	229.3	217.2	219.4	219.4
37.5°	2988.4	2786.7	1525.7	720.4	391.3	272.4	222.9	196.7	186.1	186.8	189.7
40°	3276.4	3008.2	1516.5	672.3	359.5	238.5	193.2	172.0	164.2	161.3	160.6
42.5°	3583.5	3222.6	1517.9	617.8	319.9	208.0	172.7	155.0	147.9	145.8	145.1
45°	3892.1	3427.1	1520.0	561.2	278.1	184.7	157.8	142.9	138.7	135.9	135.9
47.5°	4182.2	3601.2	1480.4	500.3	237.1	167.0	145.8	135.9	132.3	128.8	128.8
50°	4452.5	3717.3	1384.9	429.5	204.5	152.9	136.6	129.5	126.0	122.4	122.4
52.5°	4662.7	3735.7	1227.1	356.7	181.9	142.2	130.9	124.5	120.3	116.8	116.1
55°	4756.1	3620.3	1002.7	288.7	164.2	133.0	125.3	118.9	113.9	110.4	109.7
57.5°	4732.1	3377.6	782.0	232.1	147.2	123.8	118.2	113.9	108.3	102.6	101.9
60°	4613.9	3052.8	589.5	193.2	131.6	113.9	110.4	106.9	99.1	90.6	89.2
62.5°	4409.4	2644.5	420.3	159.9	114.6	102.6	101.2	98.4	87.0	71.5	70.1
65°	4096.6	2148.4	283.1	133.0	98.4	89.9	90.6	85.6	70.8	53.1	51.7
67.5°	3639.4	1571.0	181.2	109.0	82.1	75.0	75.7	72.9	60.2	45.3	43.2
70°	3057.0	1040.2	118.2	82.8	65.8	58.0	62.3	63.0	51.0	36.8	35.4
72.5°	2241.1	614.2	82.8	61.6	48.1	40.3	51.0	52.4	41.0	27.6	26.2
75°	1277.3	291.6	62.3	44.6	29.7	28.3	39.6	39.6	28.3	18.4	17.0
77.5°	536.4	121.7	43.9	29.0	17.0	16.3	26.9	24.8	14.2	8.5	8.5
80°	155.0	54.5	23.4	14.2	7.1	6.4	10.6	7.8	3.5	1.4	1.4
82.5°	60.9	24.1	9.2	5.7	2.8	2.8	1.4	0.0	0.0	0.0	0.0
85°	36.1	9.9	4.2	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	2.1	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)