

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: P882890

Luminaire Tested: **NAV-SB3A-722-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8118 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

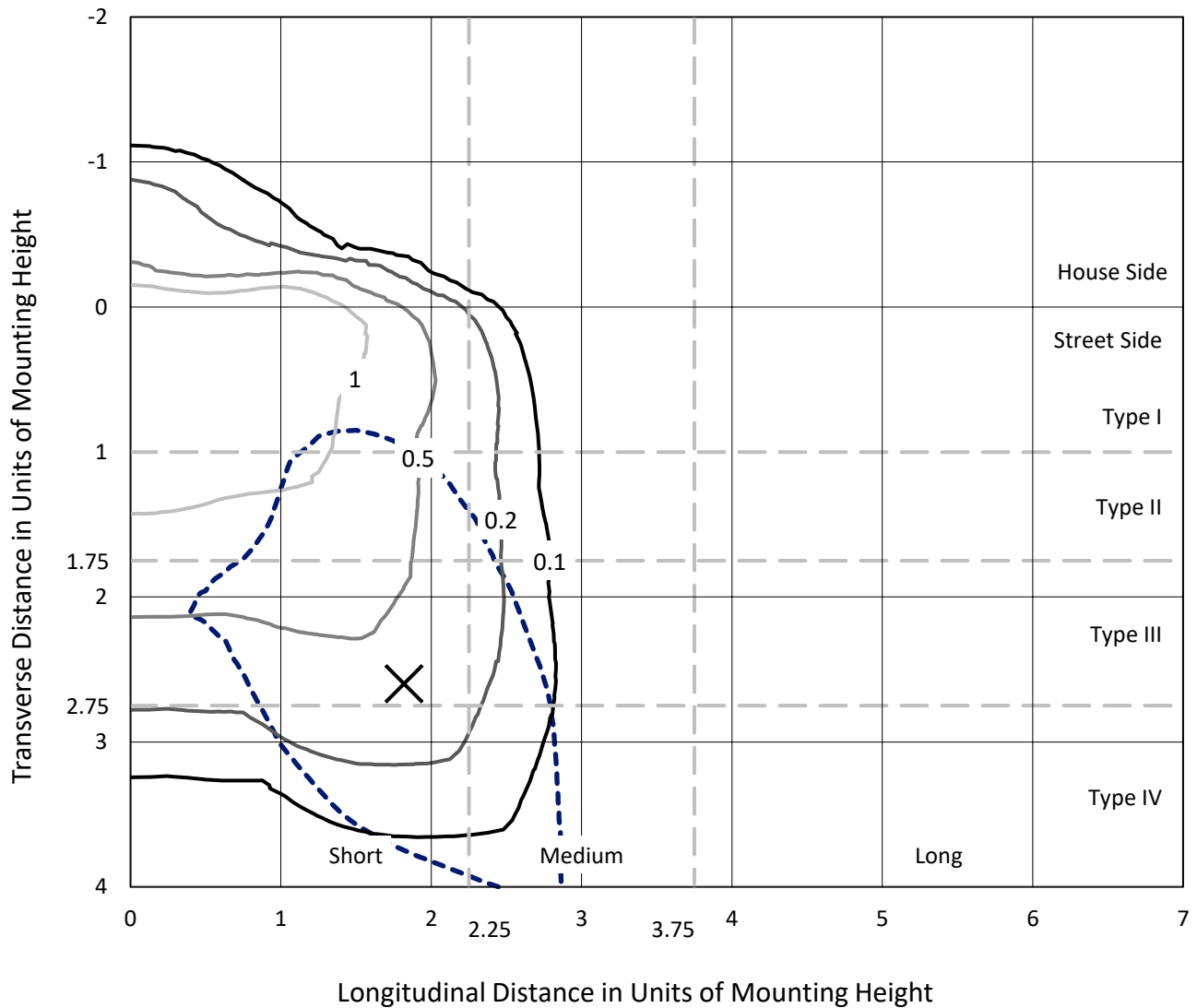
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

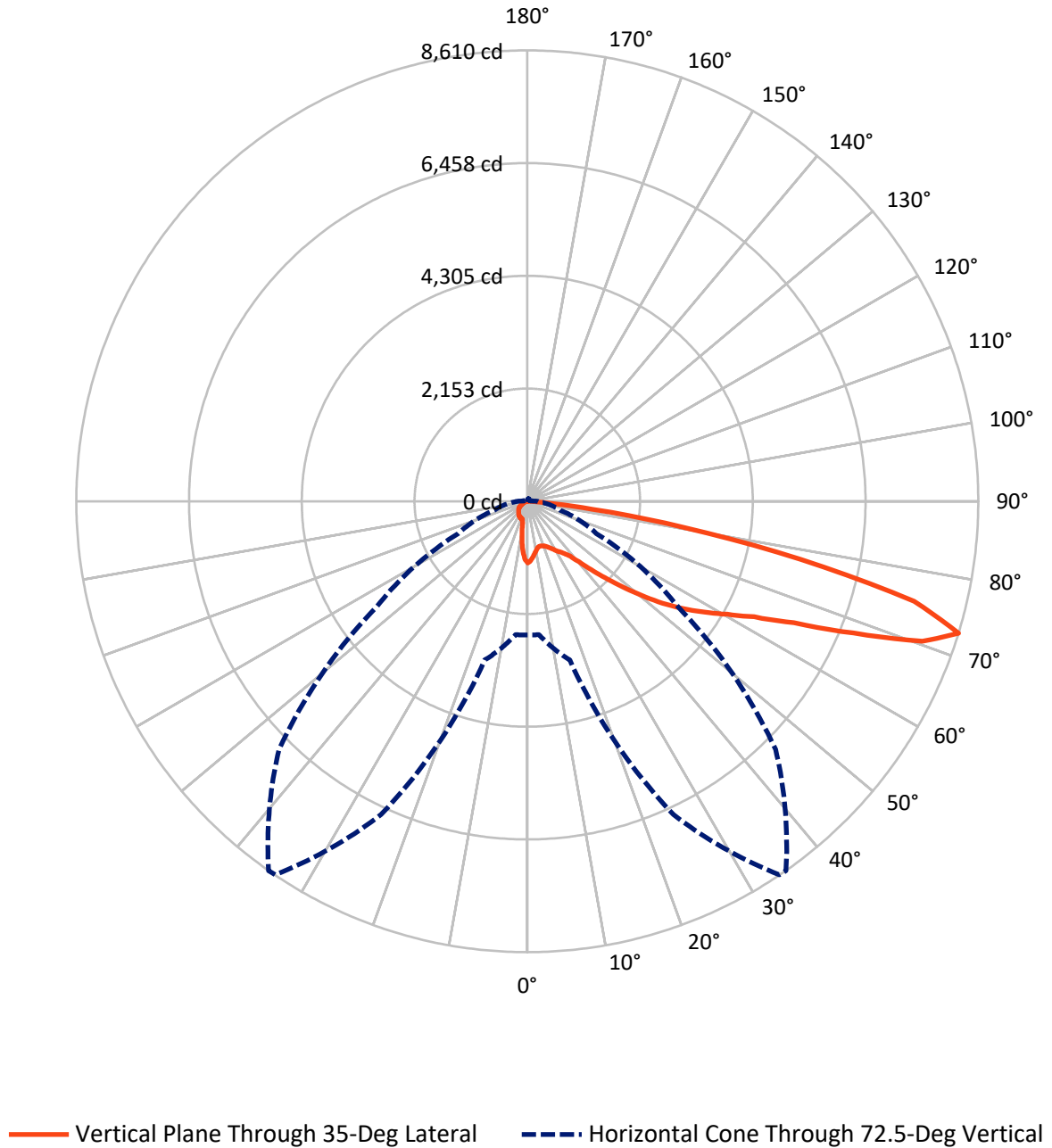
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	913.6	0.0	913.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	7204.4	0.0	7204.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	8118.0	0.0	8118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	1.2
10°-20°	226.2	2.8
20°-30°	367.4	4.5
30°-40°	613.0	7.6
40°-50°	1159.9	14.3
50°-60°	1843.0	22.7
60°-70°	2280.0	28.1
70°-80°	1417.2	17.5
80°-90°	114.5	1.4
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°	8118.0	100.0
0°-180°	8118.0	100.0

Coefficient of Utilization



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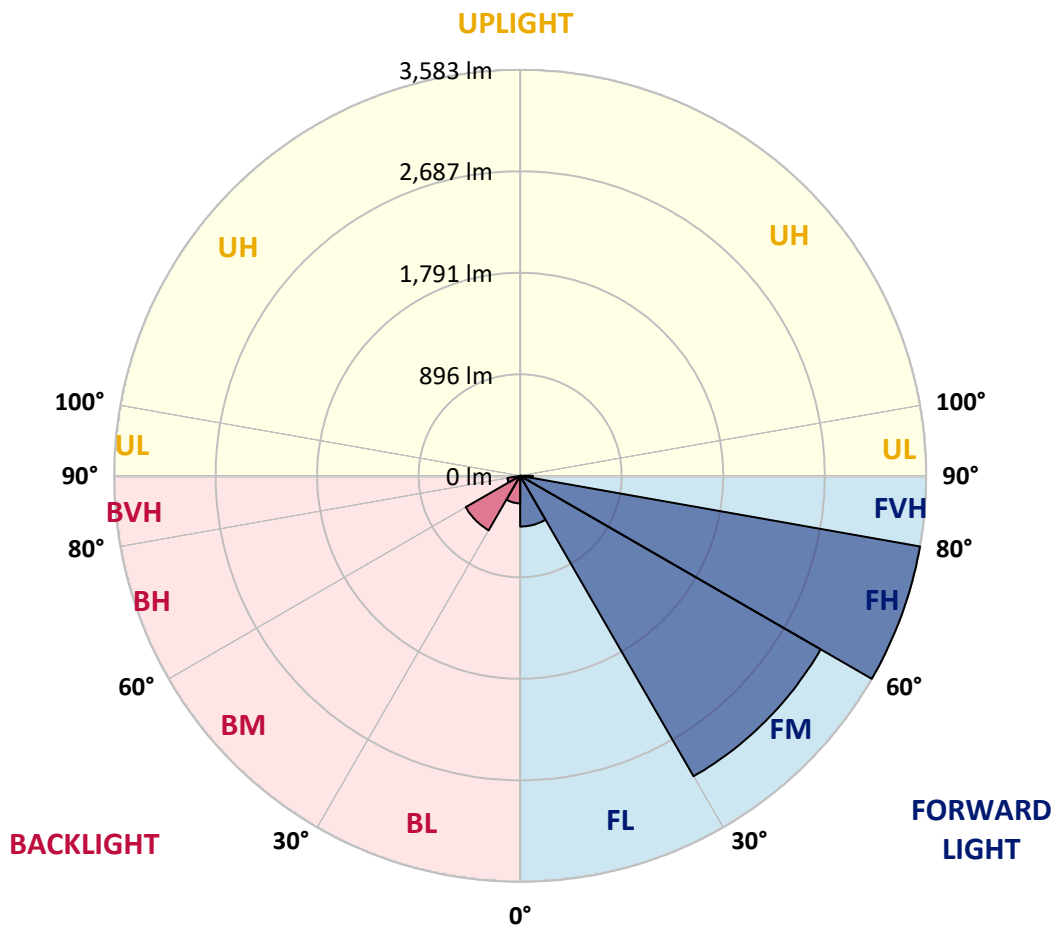
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.5	5.5			
FM (30°-60°)	3061.3	37.7			
FH (60°-80°)	3582.6	44.1			G2/5000
FVH (80°-90°)	113.0	1.4			G2/225
BL (0°-30°)	242.8	3.0	B1/500		
BM (30°-60°)	554.7	6.8	B1/1000		
BH (60°-80°)	114.6	1.4	B1/500		G1/500
BVH (80°-90°)	1.6	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°	34°	35°	45°	55°	65°	75°	85°
0°	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1124.2	1133.7	1135.5	1138.5	1138.5	1142.1	1148.0	1156.3	1170.0	1177.2	1181.9
5°	1036.2	1043.3	1052.3	1059.4	1073.1	1074.9	1098.1	1120.7	1152.2	1176.0	1192.6
7.5°	947.6	955.9	967.8	985.0	1002.9	1008.2	1043.3	1081.4	1131.4	1176.0	1203.9
10°	885.1	885.7	896.4	913.7	942.2	948.8	991.6	1045.7	1108.2	1168.8	1214.6
12.5°	850.0	854.2	858.9	872.0	899.4	903.5	949.3	1013.0	1085.0	1164.7	1227.1
15°	850.0	853.0	856.0	862.5	884.5	888.1	928.5	992.2	1073.1	1166.5	1247.4
17.5°	858.9	863.7	861.3	869.0	892.2	894.6	930.3	986.2	1072.5	1177.8	1278.3
20°	880.3	883.9	879.2	883.9	907.1	911.9	948.8	997.5	1082.6	1197.4	1316.9
22.5°	914.3	916.0	904.7	908.3	932.1	938.0	980.9	1029.6	1107.0	1228.9	1368.7
25°	957.1	960.6	943.4	947.6	970.2	977.3	1026.7	1077.8	1145.6	1272.3	1434.7
27.5°	1006.4	1008.2	993.4	992.8	1021.9	1032.0	1082.0	1137.3	1197.4	1327.1	1518.0
30°	1063.0	1068.3	1054.0	1051.7	1088.5	1096.9	1146.2	1210.5	1273.5	1409.1	1636.4
32.5°	1107.6	1111.7	1103.4	1109.4	1146.8	1153.4	1224.2	1314.0	1393.1	1525.7	1797.6
35°	1171.8	1174.2	1155.2	1165.9	1208.7	1225.3	1330.6	1459.1	1543.6	1672.1	2008.1
37.5°	1404.4	1404.4	1323.5	1270.6	1311.6	1326.5	1476.4	1641.7	1729.2	1868.4	2273.4
40°	1726.2	1720.8	1602.5	1494.2	1488.9	1518.0	1684.0	1871.9	1968.9	2103.9	2572.0
42.5°	2069.4	2061.1	1899.9	1792.8	1775.0	1785.1	1923.7	2155.7	2254.4	2391.2	2893.2
45°	2374.0	2371.6	2224.1	2080.1	2048.0	2080.1	2222.9	2487.6	2558.4	2702.3	3213.9
47.5°	2629.1	2629.1	2521.5	2427.5	2410.8	2429.9	2628.0	2855.8	2849.2	3033.6	3526.1
50°	2923.0	2920.6	2818.3	2777.8	2795.1	2821.9	3094.3	3243.6	3150.2	3359.0	3805.1
52.5°	3128.8	3143.1	3108.0	3101.4	3189.5	3235.9	3567.8	3623.1	3419.7	3667.7	4013.9
55°	3291.8	3308.4	3348.9	3394.7	3564.2	3624.9	4026.4	3983.0	3645.1	3935.4	4134.1
57.5°	3522.6	3498.8	3561.2	3651.7	3925.9	3999.0	4470.7	4322.6	3826.5	4152.5	4147.1
60°	3802.7	3806.3	3817.0	3931.2	4286.9	4380.9	4908.5	4643.8	3943.1	4285.7	4002.0
62.5°	4139.4	4144.8	4166.8	4342.2	4771.7	4860.3	5374.9	4906.7	3996.7	4248.3	3627.3
65°	4116.2	4138.8	4384.5	4984.7	5508.7	5596.1	5919.1	5091.1	3915.8	3905.6	2953.3
67.5°	3749.8	3786.7	4197.7	5752.0	6619.8	6717.4	6577.0	5127.4	3566.6	3037.2	1926.6
70°	3269.2	3282.3	3776.6	6442.0	7906.5	8005.2	7165.9	4728.3	2706.5	1694.1	863.1
72.5°	2553.0	2556.0	3135.9	6602.0	8604.8	8610.1	6703.7	3510.1	1455.5	650.7	299.8
75°	1823.7	1805.9	2100.3	5354.0	7570.4	7631.1	5025.7	1646.5	556.2	307.5	149.3
77.5°	977.9	997.5	1188.5	3175.2	5229.7	5333.2	2742.2	474.7	283.1	209.4	98.7
80°	302.2	318.8	487.2	1453.8	2962.2	3024.7	1016.6	211.2	197.5	149.3	64.8
82.5°	95.2	98.7	227.2	610.9	1229.5	1258.1	294.4	119.6	135.0	98.7	38.1
85°	27.4	28.0	101.1	227.8	304.0	309.9	82.7	46.4	77.3	61.3	19.6
87.5°	3.0	9.5	38.1	38.1	26.8	26.2	8.9	10.1	22.0	7.7	3.6
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°	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1178.9	1179.5	1171.8	1158.7	1144.4	1132.6	1117.7	1105.8	1097.5	1095.1	1099.2
5°	1187.3	1183.1	1161.1	1121.3	1073.7	1032.6	986.8	950.5	926.7	916.6	920.2
7.5°	1199.8	1187.9	1139.7	1061.2	970.2	889.3	807.2	743.5	703.1	682.9	685.8
10°	1210.5	1186.7	1104.0	974.3	835.1	712.6	602.0	525.2	482.4	462.2	462.8
12.5°	1220.6	1186.1	1057.6	871.4	682.9	533.0	430.1	392.0	380.1	375.9	374.7
15°	1239.6	1187.9	999.3	753.6	531.2	402.7	365.2	364.6	367.0	365.8	365.2
17.5°	1265.8	1189.7	933.3	628.7	409.8	355.1	353.3	358.7	362.3	360.5	359.9
20°	1299.7	1196.8	863.1	505.0	352.1	343.2	347.4	352.1	355.1	352.1	351.5
22.5°	1347.3	1209.3	786.4	405.7	333.7	336.1	339.6	345.0	348.0	343.8	343.2
25°	1405.6	1228.9	710.8	352.7	324.8	327.8	333.1	339.1	342.6	338.5	337.9
27.5°	1481.1	1260.4	641.2	340.8	315.9	317.6	325.4	334.3	339.1	333.7	333.7
30°	1590.6	1312.2	581.1	346.2	310.5	306.3	317.0	329.5	334.9	330.1	329.5
32.5°	1735.7	1385.4	544.3	354.5	308.1	293.3	303.4	319.4	328.3	325.4	325.4
35°	1926.1	1496.6	530.0	364.0	306.3	279.6	286.7	304.0	319.4	322.4	322.4
37.5°	2156.8	1651.2	534.2	368.2	301.0	268.3	271.8	286.7	306.9	316.4	318.8
40°	2419.2	1831.5	557.9	364.0	295.0	258.8	259.3	270.6	288.5	302.8	307.5
42.5°	2689.8	2042.0	602.0	348.6	289.7	250.4	248.6	256.4	268.3	278.4	282.5
45°	2947.4	2258.6	645.4	327.2	283.1	242.1	237.9	240.9	243.3	247.4	249.8
47.5°	3172.2	2410.8	632.9	307.5	274.2	232.6	225.4	224.3	217.1	216.5	215.9
50°	3327.5	2444.1	562.1	287.9	261.1	221.9	210.6	203.4	190.9	185.0	185.6
52.5°	3376.8	2312.7	459.2	268.3	239.7	207.6	191.5	180.2	164.8	159.4	158.8
55°	3311.4	2055.1	367.0	244.5	210.0	188.6	170.7	155.8	143.4	136.8	136.8
57.5°	3151.4	1727.4	290.3	216.5	178.4	167.1	149.3	134.4	123.7	117.2	116.0
60°	2886.1	1371.7	229.6	183.2	152.3	143.9	125.5	116.0	106.5	98.7	97.0
62.5°	2483.4	979.1	180.2	145.1	127.3	117.8	107.1	99.9	88.6	77.9	76.1
65°	1938.0	599.0	139.2	106.5	102.3	97.6	91.0	84.5	70.8	60.1	58.3
67.5°	1222.4	283.7	99.3	80.3	80.9	78.5	75.5	70.2	60.1	50.6	49.4
70°	538.3	137.4	65.4	61.3	60.1	60.1	62.5	60.7	51.2	42.2	40.4
72.5°	183.2	73.8	48.8	46.4	43.4	42.8	52.3	50.6	41.0	32.7	30.9
75°	95.8	49.4	35.7	33.3	26.2	31.5	41.6	39.3	29.1	21.4	19.6
77.5°	62.5	35.1	24.4	21.4	14.9	20.8	30.9	27.4	17.3	10.7	9.5
80°	39.3	23.2	14.3	10.1	7.1	11.3	16.7	11.9	6.5	2.4	1.8
82.5°	20.8	11.9	5.4	3.6	3.0	3.6	4.2	3.0	1.2	0.0	0.0
85°	8.3	4.2	1.8	1.2	0.6	0.0	1.2	0.6	0.0	0.0	0.0
87.5°	3.0	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)