

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: P882379

Luminaire Tested: **NAV-SB2B-722-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882379  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2B-722-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

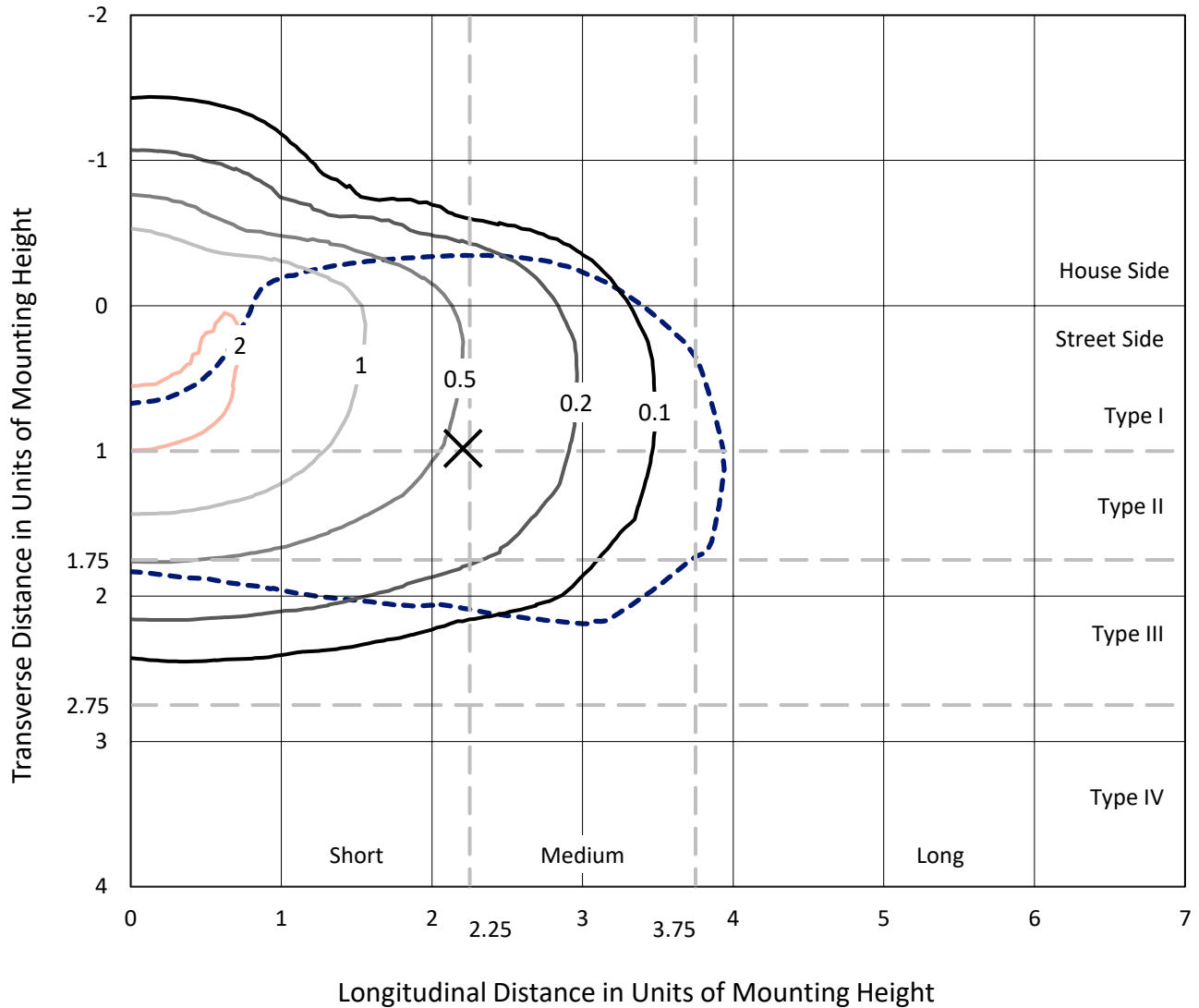
Lumens per Lamp: N/A  
Luminaire Lumens: 9152 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.627  
Voltage Rise (V): NR  
Power Factor: 0.988  
Total Harmonic Distortion (THDi): 13.593  
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

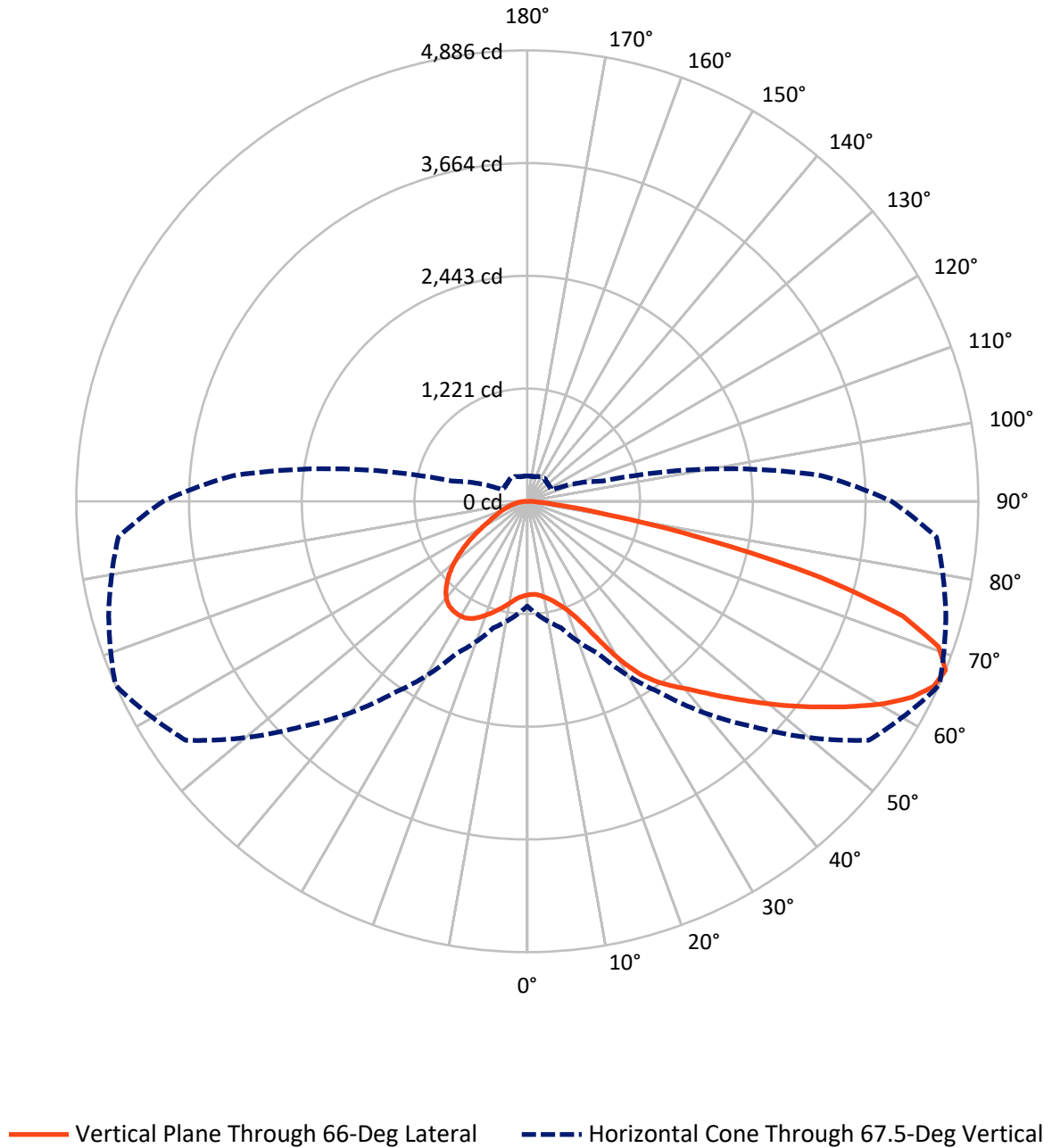
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2275.6	0.0	2275.6
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	6876.4	0.0	6876.4
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	9152.0	0.0	9152.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.6	1.1
10°-20°	332.5	3.6
20°-30°	640.9	7.0
30°-40°	1123.7	12.3
40°-50°	1670.6	18.3
50°-60°	2117.6	23.1
60°-70°	2072.0	22.6
70°-80°	988.4	10.8
80°-90°	105.6	1.2
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°	9152.0	100.0
0°-180°	9152.0	100.0

**Coefficient of Utilization**



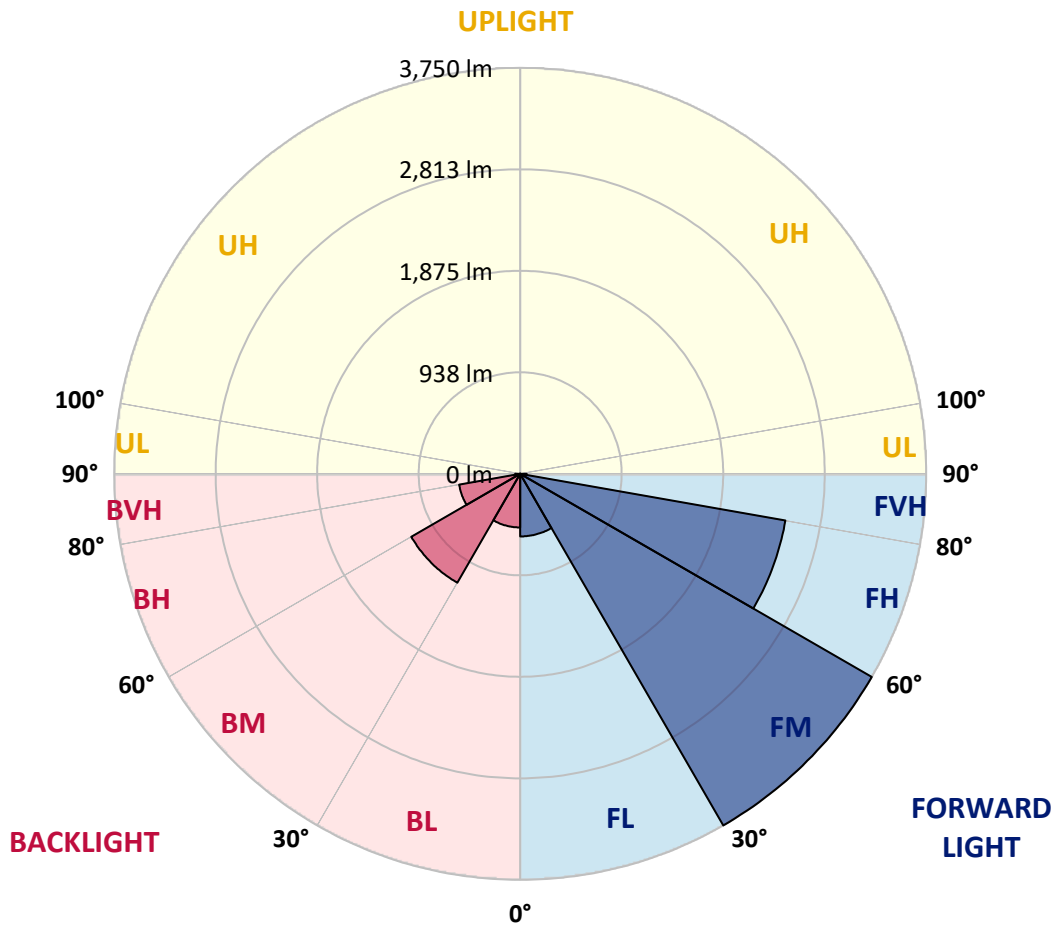
REPORT NUMBER: P882379  
 CATALOG NUMBER: NAV-SB2B-722-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.3	6.3			
FM (30°-60°)	3750.4	41.0			
FH (60°-80°)	2487.8	27.2			G2/5000
FVH (80°-90°)	59.9	0.7			G1/100
BL (0°-30°)	495.7	5.4	B1/500		
BM (30°-60°)	1161.5	12.7	B2/2500		
BH (60°-80°)	572.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	45.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short



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 CATALOG NUMBER: NAV-SB2B-722-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1
2.5°	1004.5	1010.3	1008.8	1006.4	1005.9	1006.9	1008.3	1009.8	1009.3	1011.7	1015.6
5°	1001.6	1007.4	1006.9	1006.9	1008.8	1012.7	1015.1	1017.5	1015.1	1018.0	1023.3
7.5°	1003.5	1007.9	1009.8	1011.7	1016.5	1023.7	1029.5	1034.8	1031.9	1035.3	1042.0
10°	1028.1	1031.4	1033.4	1033.4	1036.7	1044.9	1050.7	1060.3	1057.9	1063.2	1071.8
12.5°	1072.8	1076.1	1076.1	1074.2	1076.6	1081.9	1083.8	1094.4	1090.1	1098.7	1107.4
15°	1127.6	1134.3	1129.0	1125.7	1126.6	1131.9	1131.4	1139.6	1135.3	1142.5	1150.2
17.5°	1188.2	1196.8	1188.2	1187.7	1185.8	1191.6	1192.0	1199.2	1191.6	1196.8	1202.1
20°	1259.8	1271.9	1264.6	1267.0	1262.7	1265.1	1267.5	1278.1	1266.1	1269.9	1268.5
22.5°	1360.8	1375.2	1367.5	1376.7	1373.8	1371.9	1371.4	1390.1	1371.4	1372.8	1358.9
25°	1508.0	1525.3	1511.8	1524.3	1524.3	1530.6	1537.8	1561.8	1530.6	1521.4	1485.4
27.5°	1725.3	1742.6	1716.2	1723.9	1721.4	1736.8	1729.1	1788.8	1755.1	1740.2	1667.6
30°	1986.9	2017.7	1967.6	1965.7	1963.3	1987.8	1998.9	2038.3	2004.2	1989.3	1901.8
32.5°	2269.6	2301.8	2242.2	2224.9	2215.8	2230.7	2221.5	2253.3	2229.7	2206.6	2098.4
35°	2568.7	2600.4	2543.7	2510.0	2473.5	2442.2	2409.5	2417.7	2395.6	2360.5	2248.5
37.5°	2851.5	2909.6	2849.5	2813.5	2746.1	2685.1	2593.7	2555.7	2535.0	2502.8	2389.8
40°	3139.5	3172.7	3127.0	3096.2	3023.1	2927.4	2781.2	2700.9	2673.1	2641.8	2546.1
42.5°	3351.5	3383.3	3358.7	3337.6	3280.4	3169.3	2980.3	2879.8	2839.4	2804.3	2723.1
45°	3519.8	3543.4	3528.0	3535.7	3511.2	3403.5	3186.6	3071.7	3029.8	2987.1	2923.1
47.5°	3587.6	3612.6	3637.2	3682.8	3724.7	3645.3	3408.3	3279.4	3235.2	3191.4	3128.4
50°	3579.9	3605.4	3676.6	3773.7	3903.6	3877.1	3642.0	3500.6	3459.7	3409.7	3351.5
52.5°	3518.4	3547.2	3638.6	3800.2	4006.9	4050.7	3880.0	3729.0	3690.5	3630.9	3572.7
55°	3356.8	3374.1	3511.2	3740.1	4031.5	4171.9	4113.2	3972.3	3933.8	3850.7	3787.2
57.5°	3057.3	3082.3	3281.8	3578.0	3969.9	4254.1	4318.0	4228.1	4191.1	4071.4	4005.0
60°	2666.3	2706.2	2934.6	3305.9	3813.2	4253.6	4504.1	4479.6	4448.8	4288.7	4219.5
62.5°	2223.9	2270.1	2489.8	2921.2	3539.1	4132.9	4620.5	4690.2	4674.4	4489.2	4400.8
65°	1708.0	1739.7	1958.5	2423.5	3112.6	3873.7	4634.0	4834.0	4836.9	4641.7	4495.5
67.5°	1137.2	1228.6	1418.5	1818.6	2541.3	3450.1	4515.7	4857.6	4885.5	4694.1	4447.9
70°	554.9	675.1	861.2	1181.9	1818.6	2800.5	4206.5	4664.3	4726.3	4541.2	4164.2
72.5°	230.3	269.3	370.7	583.3	1043.9	1889.7	3585.2	4140.1	4255.1	4023.8	3501.1
75°	155.3	168.3	212.1	299.1	475.6	931.9	2585.5	3087.1	3272.2	3039.0	2484.1
77.5°	119.7	127.9	154.4	209.2	282.7	352.5	1383.9	1860.4	1956.1	1810.9	1292.5
80°	94.2	100.5	115.4	152.4	200.5	188.5	471.7	842.9	898.2	753.5	415.5
82.5°	81.7	84.1	82.7	103.4	133.2	110.1	154.8	311.1	343.3	249.1	135.6
85°	59.1	65.9	68.8	64.0	70.7	55.8	63.5	110.1	121.2	108.2	76.5
87.5°	24.0	35.6	43.8	41.4	26.0	15.9	19.7	32.2	37.0	40.4	25.0
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: P882379  
 CATALOG NUMBER: NAV-SB2B-722-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1	1015.1
2.5°	1016.0	1019.4	1021.8	1024.7	1026.6	1029.5	1035.3	1038.6	1039.1	1041.5	1041.0
5°	1025.2	1030.0	1035.3	1043.0	1051.6	1058.8	1069.9	1077.6	1080.5	1082.9	1082.4
7.5°	1044.9	1051.6	1061.2	1074.7	1087.2	1096.8	1110.3	1119.4	1128.6	1131.9	1132.4
10°	1074.2	1083.8	1097.8	1116.1	1129.5	1142.0	1156.0	1163.7	1172.8	1176.6	1178.6
12.5°	1110.8	1120.9	1139.1	1164.6	1177.1	1185.8	1190.6	1188.7	1190.6	1194.0	1194.9
15°	1152.6	1163.7	1184.3	1211.7	1220.4	1212.7	1202.1	1192.5	1191.1	1192.0	1195.4
17.5°	1202.1	1210.3	1234.3	1257.4	1251.2	1219.4	1196.4	1181.0	1173.3	1170.9	1174.2
20°	1271.4	1271.4	1291.1	1305.5	1263.7	1209.8	1173.8	1148.8	1132.9	1126.2	1124.7
22.5°	1355.5	1347.8	1360.3	1350.2	1261.3	1182.9	1132.9	1089.6	1065.6	1056.0	1054.5
25°	1462.3	1453.1	1449.8	1387.3	1244.0	1140.1	1058.8	1006.4	985.3	980.0	980.9
27.5°	1623.4	1600.3	1556.5	1407.5	1212.2	1072.8	972.3	923.7	911.7	912.2	913.6
30°	1837.8	1791.7	1684.4	1410.8	1160.3	977.6	883.8	849.2	843.4	845.8	854.0
32.5°	2036.4	1992.6	1815.2	1395.4	1080.5	884.3	804.5	781.4	772.7	775.6	779.5
35°	2192.2	2180.2	1936.4	1373.8	982.4	796.8	733.3	713.6	696.8	692.9	695.8
37.5°	2339.3	2334.5	2027.3	1343.5	885.2	734.7	676.1	650.1	625.6	612.1	612.6
40°	2500.9	2496.1	2086.9	1296.9	799.2	680.9	624.6	590.5	560.2	535.7	538.1
42.5°	2682.7	2654.3	2115.3	1230.0	726.1	635.2	582.8	536.6	496.7	474.1	475.6
45°	2881.3	2817.3	2114.8	1144.9	664.5	593.4	538.1	472.7	435.7	414.5	413.5
47.5°	3091.9	2973.1	2088.8	1050.7	604.9	547.2	468.8	418.8	394.3	381.3	378.4
50°	3309.2	3118.8	2044.6	942.5	543.8	494.8	425.6	391.4	372.7	360.6	356.3
52.5°	3513.6	3251.0	1991.2	819.9	481.8	443.8	406.3	379.9	360.2	346.7	340.9
55°	3703.5	3365.0	1915.7	694.3	431.3	409.7	397.2	375.1	352.5	336.6	330.3
57.5°	3872.3	3439.1	1785.4	576.5	395.3	386.1	387.6	366.9	340.9	327.5	318.8
60°	4012.7	3493.4	1592.6	467.4	365.9	363.0	372.7	351.5	321.2	305.8	299.1
62.5°	4096.9	3492.4	1356.0	382.8	340.9	341.9	352.9	332.3	301.5	287.1	282.7
65°	4089.6	3406.8	1096.3	327.5	316.9	317.8	332.3	311.1	285.1	276.5	276.0
67.5°	3944.9	3198.1	841.0	291.4	290.4	294.8	311.6	296.7	275.0	274.1	275.5
70°	3553.0	2764.9	605.9	262.5	263.0	269.3	291.4	287.5	269.8	271.7	271.2
72.5°	2849.0	2108.1	406.8	232.3	232.7	242.8	272.2	280.3	264.5	290.0	293.8
75°	1897.4	1314.6	261.6	200.0	200.5	213.5	255.3	266.4	250.0	289.0	291.4
77.5°	911.7	591.0	189.5	168.3	168.3	180.3	220.7	238.5	213.0	224.6	205.8
80°	315.0	222.2	149.1	135.6	132.7	140.9	186.1	206.8	183.7	169.3	158.7
82.5°	124.1	115.4	119.7	105.3	95.7	101.0	144.7	170.7	135.1	122.1	121.7
85°	71.2	75.0	84.6	69.7	55.3	62.0	106.3	122.6	101.9	89.9	91.8
87.5°	19.2	26.4	38.9	36.1	25.0	26.4	50.5	67.8	58.7	45.2	46.6
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)