

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: P961378

Luminaire Tested: **NAV-SB2A-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-730-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9318.3 lumens
Efficiency: N/A
Efficacy: 162.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

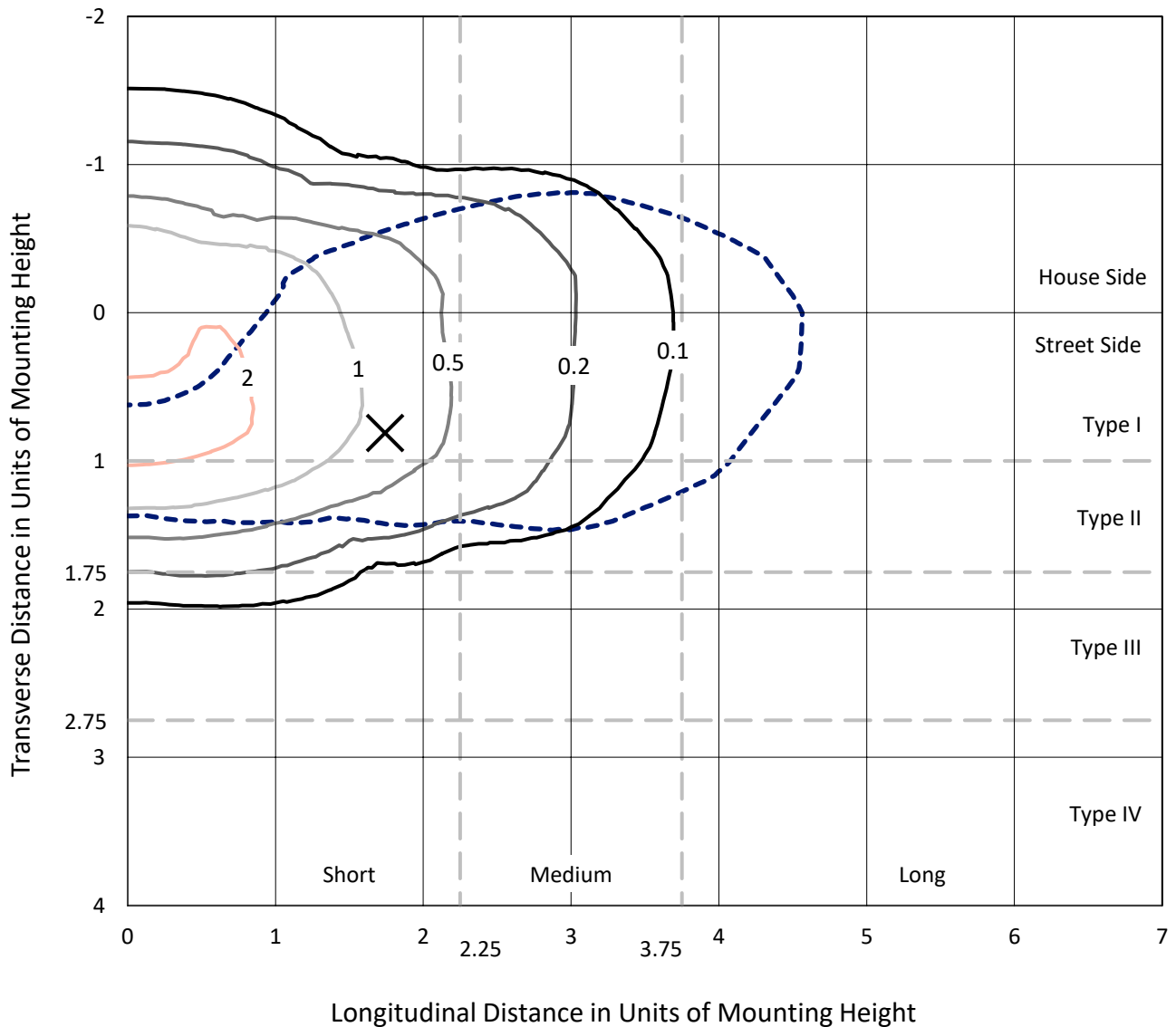
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

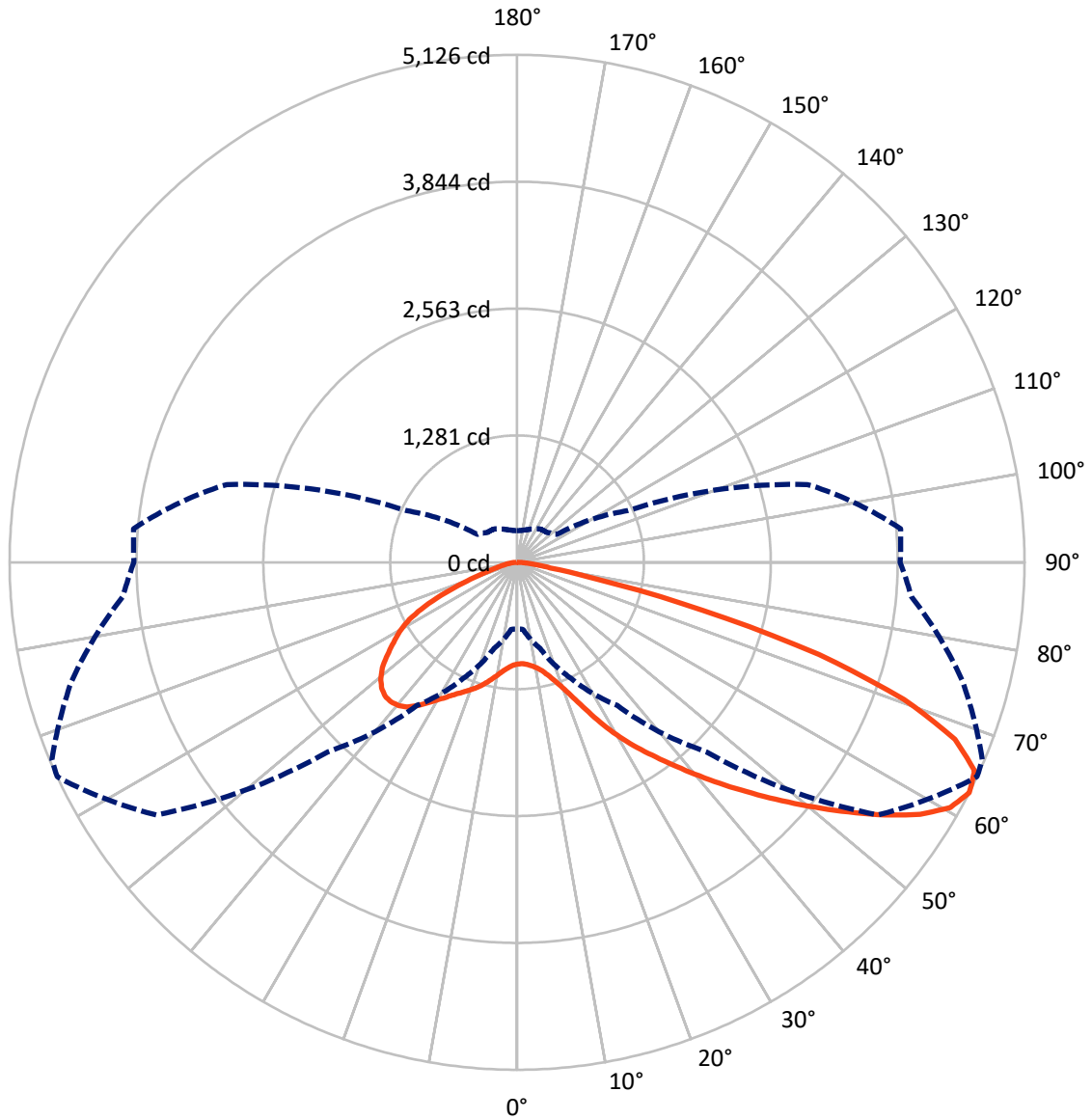
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2940.4	0.0	2940.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6377.8	0.0	6377.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	9318.3	0.0	9318.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	1.1
10°-20°	347.2	3.7
20°-30°	703.9	7.6
30°-40°	1218.1	13.1
40°-50°	1843.3	19.8
50°-60°	2161.2	23.2
60°-70°	1811.9	19.4
70°-80°	1000.3	10.7
80°-90°	129.9	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°	9318.3	100.0
0°-180°	9318.3	100.0

Coefficient of Utilization



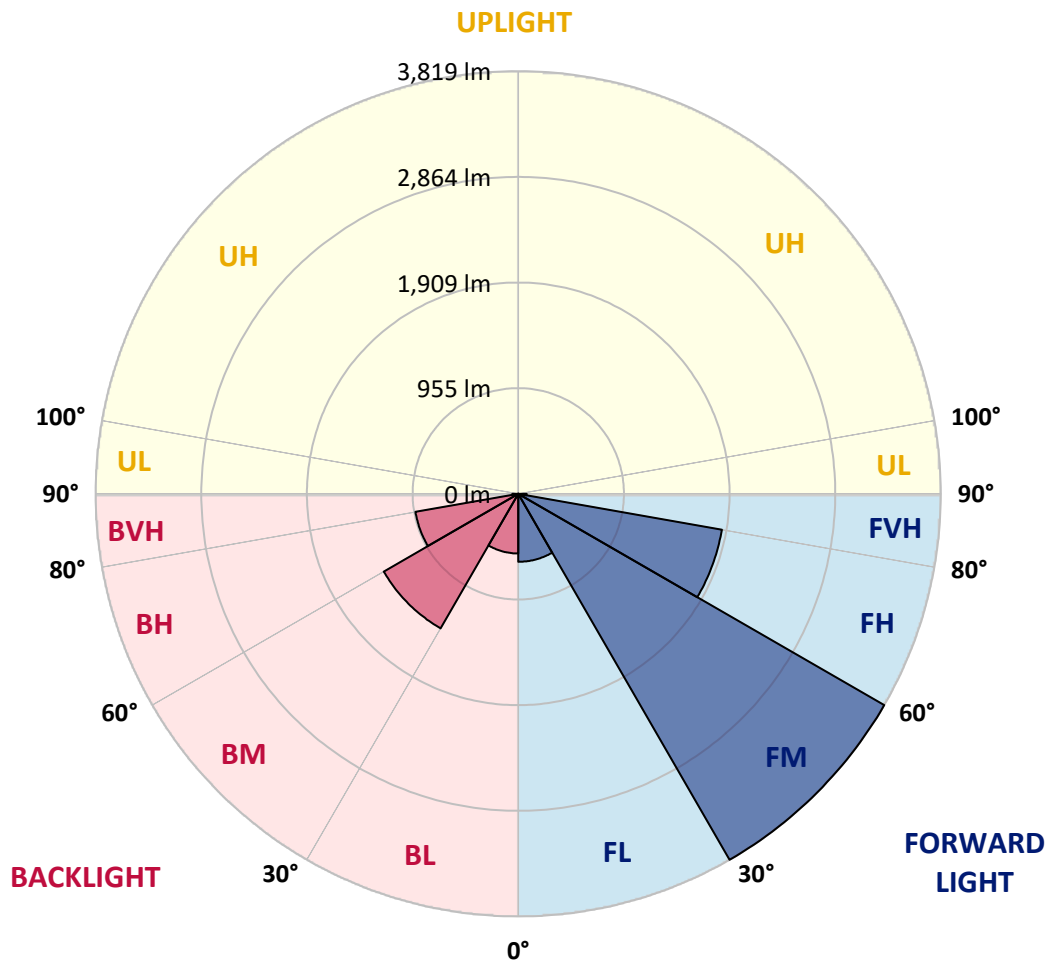
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.2	6.6			
FM (30°-60°)	3818.9	41.0			
FH (60°-80°)	1869.0	20.1			G2/5000
FVH (80°-90°)	75.7	0.8			G1/100
BL (0°-30°)	539.2	5.8	B2/1000		
BM (30°-60°)	1403.7	15.1	B2/2500		
BH (60°-80°)	943.3	10.1	B2/1000		G2/1000
BVH (80°-90°)	54.2	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1020.1	1017.2	1019.6	1019.6	1020.6	1020.1	1023.5	1024.4	1025.8	1028.8	1028.8
5°	1009.9	1009.4	1013.8	1017.6	1021.5	1024.9	1029.2	1035.6	1036.5	1039.9	1044.3
7.5°	1006.6	1003.6	1010.4	1015.3	1024.4	1032.6	1044.3	1054.8	1059.2	1060.7	1068.9
10°	1032.6	1027.8	1034.1	1037.0	1044.7	1053.0	1066.5	1083.4	1088.2	1094.0	1103.2
12.5°	1077.1	1071.8	1081.0	1085.4	1092.5	1099.8	1109.0	1125.4	1127.9	1138.5	1147.2
15°	1138.1	1131.7	1137.5	1142.9	1155.0	1161.7	1170.9	1186.8	1186.8	1195.0	1201.4
17.5°	1220.7	1212.5	1216.8	1218.7	1226.5	1236.7	1252.1	1266.2	1273.4	1270.5	1261.8
20°	1344.0	1333.8	1333.8	1324.2	1321.2	1329.4	1349.8	1369.1	1376.9	1361.8	1340.6
22.5°	1529.1	1514.6	1506.4	1473.5	1460.5	1461.4	1481.7	1505.4	1511.8	1485.1	1437.3
25°	1764.5	1741.9	1730.7	1682.3	1652.9	1627.3	1643.2	1673.7	1682.3	1649.5	1572.1
27.5°	2000.0	2001.4	1990.9	1932.8	1884.0	1837.1	1828.9	1860.8	1869.9	1832.7	1737.0
30°	2330.2	2295.9	2275.6	2205.9	2136.3	2070.6	2036.8	2049.8	2052.3	2007.8	1896.6
32.5°	2615.0	2606.3	2562.7	2501.8	2412.3	2309.4	2252.8	2232.0	2228.1	2164.9	2032.9
35°	2939.3	2934.5	2888.6	2816.1	2719.3	2576.2	2474.2	2414.8	2410.0	2321.0	2167.8
37.5°	3269.0	3269.0	3224.0	3144.8	3044.8	2865.9	2710.7	2616.4	2600.9	2484.9	2305.0
40°	3532.0	3516.1	3524.3	3490.9	3376.4	3186.4	2973.2	2836.4	2815.6	2676.4	2451.1
42.5°	3681.4	3676.1	3725.5	3762.7	3715.7	3563.9	3262.3	3074.7	3045.7	2887.1	2619.3
45°	3714.8	3709.0	3797.0	3933.3	3999.0	3936.7	3576.5	3325.6	3290.4	3107.6	2799.6
47.5°	3637.9	3626.3	3755.4	3970.5	4181.3	4291.1	3916.8	3597.7	3546.5	3322.2	2984.8
50°	3406.8	3395.7	3591.0	3876.8	4242.7	4531.8	4286.2	3886.4	3808.1	3552.3	3171.9
52.5°	2904.5	2909.9	3215.8	3608.4	4162.0	4681.7	4604.3	4190.5	4096.2	3787.8	3347.3
55°	2262.5	2274.2	2650.2	3082.5	3839.0	4658.9	4821.4	4503.7	4410.0	4009.2	3528.7
57.5°	1620.0	1671.3	2023.7	2451.5	3218.8	4298.7	4868.8	4801.5	4710.7	4250.9	3706.1
60°	1050.0	1059.2	1421.8	1853.0	2451.1	3658.7	4772.5	5027.3	4956.3	4497.5	3854.5
62.5°	672.9	679.3	900.2	1296.1	1764.1	2706.8	4448.6	5125.5	5103.7	4660.4	3997.1
65°	494.6	489.7	604.8	856.7	1188.3	1669.3	3819.7	5078.1	5121.1	4762.4	4115.1
67.5°	412.9	406.1	462.7	593.2	875.6	948.0	2826.2	4770.1	4927.7	4750.8	4201.6
70°	376.1	370.3	404.7	440.4	683.1	634.8	1424.7	4146.9	4389.7	4618.9	4187.5
72.5°	318.6	308.4	355.4	391.1	531.3	486.9	588.9	3185.4	3481.3	4195.8	3990.3
75°	247.0	240.3	280.4	344.2	399.3	380.0	372.3	1934.3	2257.2	3244.8	3490.9
77.5°	195.8	186.7	223.3	268.3	359.2	286.7	271.2	833.0	1153.0	2071.5	2612.0
80°	147.5	139.2	169.6	212.3	276.0	216.1	175.5	339.9	434.6	1049.6	1313.5
82.5°	104.9	97.7	118.5	155.7	185.6	193.8	107.8	190.4	214.1	404.7	293.5
85°	67.2	62.8	79.3	97.7	118.0	124.7	65.7	99.6	109.3	166.8	122.3
87.5°	36.7	29.9	42.5	45.4	54.6	49.8	31.5	36.3	39.2	60.5	51.8
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°	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1030.7	1032.2	1037.0	1038.4	1041.8	1046.2	1049.1	1052.0	1052.0	1054.8	1054.8
5°	1044.7	1048.1	1058.2	1063.5	1072.3	1081.0	1086.3	1092.5	1096.4	1098.4	1099.3
7.5°	1071.8	1077.1	1091.6	1100.8	1115.8	1127.9	1136.1	1144.8	1146.8	1152.0	1150.2
10°	1108.5	1114.8	1131.3	1148.6	1166.6	1181.5	1189.3	1195.6	1198.0	1198.9	1196.5
12.5°	1150.6	1159.8	1181.0	1202.3	1221.2	1234.2	1236.1	1234.7	1227.9	1222.1	1222.1
15°	1202.3	1210.5	1234.2	1257.5	1275.8	1278.2	1266.2	1258.4	1250.2	1248.8	1248.8
17.5°	1264.2	1268.5	1290.3	1313.0	1314.5	1306.3	1288.4	1281.1	1273.4	1268.0	1268.5
20°	1336.2	1334.8	1350.2	1360.0	1349.8	1324.6	1297.5	1285.5	1277.8	1271.4	1271.9
22.5°	1422.3	1411.2	1409.3	1406.8	1379.8	1327.1	1290.3	1274.8	1262.8	1254.1	1257.0
25°	1547.5	1505.0	1475.5	1459.0	1398.1	1314.0	1267.1	1232.8	1210.0	1195.0	1200.9
27.5°	1704.2	1632.6	1558.1	1518.0	1398.1	1287.4	1211.0	1155.4	1118.2	1102.7	1110.5
30°	1853.5	1778.6	1668.8	1589.1	1394.7	1243.9	1120.6	1043.2	999.8	984.3	993.4
32.5°	1981.1	1899.4	1786.4	1667.0	1386.5	1173.3	1008.5	922.9	880.8	862.4	871.7
35°	2099.6	2012.6	1904.2	1752.4	1364.8	1069.9	885.2	819.9	773.1	743.5	753.2
37.5°	2221.0	2117.4	2016.0	1829.8	1325.6	949.0	790.5	734.8	679.7	640.1	650.7
40°	2352.9	2229.2	2135.4	1875.7	1261.3	833.9	717.0	666.1	607.7	565.6	573.9
42.5°	2507.1	2363.0	2268.3	1899.4	1173.3	752.2	669.1	619.3	564.2	529.8	536.6
45°	2668.1	2510.5	2389.7	1898.9	1075.2	714.0	653.6	604.3	543.4	507.6	513.4
47.5°	2836.9	2664.7	2494.5	1868.1	990.0	719.3	644.9	571.9	504.7	469.9	474.8
50°	3006.0	2833.5	2596.1	1810.0	953.9	707.8	612.5	526.4	447.2	415.7	417.7
52.5°	3173.8	3012.8	2683.6	1727.3	917.1	664.7	570.9	467.5	423.5	401.7	401.7
55°	3342.5	3190.2	2778.9	1607.0	825.2	614.5	501.3	445.3	404.7	384.8	382.8
57.5°	3511.8	3395.2	2869.3	1486.6	709.7	552.6	463.1	418.2	385.8	368.9	365.9
60°	3687.7	3629.7	2962.6	1375.9	595.6	473.2	435.1	396.5	363.6	344.7	343.3
62.5°	3869.0	3887.8	3035.5	1233.3	490.7	425.0	410.0	370.3	338.5	320.5	320.0
65°	4051.7	4136.8	3083.4	1035.6	397.9	379.0	382.8	341.8	309.4	294.0	293.5
67.5°	4189.5	4316.2	3069.9	783.6	326.4	335.5	349.0	311.8	281.4	269.3	269.8
70°	4205.0	4295.0	2936.4	536.6	273.2	292.9	311.3	282.3	250.9	242.2	242.7
72.5°	3999.0	4004.9	2564.7	350.4	231.0	257.2	271.7	252.4	221.9	213.2	212.7
75°	3459.1	3312.1	1883.0	231.0	193.4	220.9	234.5	220.9	191.5	193.4	186.7
77.5°	2620.7	2345.7	1143.4	164.4	161.4	185.6	204.0	194.3	169.2	190.0	167.3
80°	1350.2	1269.1	510.0	122.8	127.6	148.4	167.8	155.2	133.9	127.6	116.5
82.5°	309.4	359.7	201.1	87.9	92.4	106.8	128.1	116.5	96.2	81.2	80.3
85°	108.3	118.5	89.0	55.1	54.1	66.7	87.0	77.8	65.3	52.2	55.1
87.5°	34.3	45.0	33.3	22.2	23.2	29.9	40.1	36.7	30.4	19.8	20.8
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)